

IGBINEDION UNIVERSITY, OKADA

Prospectus

**(2016 – 2020 Academic Session)**



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**OKADA**

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## **COLLEGES, SCHOOLS AND DEPARTMENTS**

### **(1) College of Arts and Social Sciences**

- (i) Department of Economics and Development Studies
- (ii) Department of English
- (iii) Department of Geography and Regional Planning
- (iv) Department of International Relations & Strategic Studies
- (v) Department of Mass Communication
- (vi) Department of Political Science/Public Administration
- (vii) Department of Sociology/Anthropology
- (viii) Department of Theatre Arts

### **(2) College of Business and Management Studies**

- (i) Department of Accounting
- (ii) Department of Business Administration
- (iii) Department of Banking and Finance

### **(3) Abdulsalami Abubakar College of Engineering Technology**

- (i) Department of Chemical Engineering
- (ii) Department of Petroleum Engineering
- (iii) Department of Civil Engineering
- (iv) Department of Electrical/Electronics/Computer Engineering
- (v) Department of Mechanical Engineering

### **(4) Oba Okunade Sijuwade College of Health Sciences**

#### **(a) School of Basic Medical Sciences:**

- (i) Department of Anatomy
- (ii) Department of Biochemistry
- (iii) Department of Physiology
- (iv) Department of Medical Laboratory Sciences

#### **(b) School of Clinical Medicine:**

- (i) Department of Anaesthesiology
- (ii) Department of Community Medicine
- (iii) Department of Chemical Pathology
- (iv) Department of Haematology & Blood Transfusion
- (v) Department of Medicine
- (vi) Department of Medical Microbiology
- (vii) Department of Morbid Anatomy
- (viii) Department of Obstetrics & Gynaecology
- (ix) Department of Paediatrics & Child Health
- (x) Department of Therapeutics & Pharmacology
- (xi) Department of Psychiatry
- (xii) Department of Radiology
- (xiii) Department of Surgery
- (xiv) Department of Nursing Science

**(5) College of Pharmacy**

- (i) Department of Pharmaceutics and Pharmaceutical Technology
- (ii) Department of Pharmaceutical Chemistry
- (iii) Department of Pharmaceutical Microbiology
- (iv) Department of Pharmacognosy
- (v) Department of Clinical Pharmacy & Pharmacy Practice
- (vi) Department of Pharmacology & Toxicology

**(6) Oba Erediauwa College of Law**

**(7) College of Natural and Applied Sciences**

- (i) Department of Biological Sciences
- (ii) Department of Chemical Sciences
- (iii) Department of Computer Science & Information Technology
- (iv) Department of Physics/Industrial Physics

**(8) Other Academic Units**

- (i) Human Help Services
- (ii) General Studies Unit
- (iii) Academic Planning
- (iv) Centre for Entrepreneurship
- (v) Community Service Programme
- (vi) Centre of Presidential Studies
- (vii) Centre for Edo Studies

**(10) Units**

- i) Vice Chancellor's Office
- ii) Deputy Vice Chancellor's Office
- iii) Registry
- iv) Bursary
- v) Library
- vi) Sports
- vii) Student Affairs
- viii) Works
- ix) Igbinedion University Staff School

## Honorary Graduates

List of Graduating Students 2002/2003

List of Graduating Students 2003/2004

List of Graduating Students 2004/2005

List of Graduating Students 2005/2006

List of Graduating Students 2006/2007

List of Graduating Students 2007/2008

List of Graduating Students 2008/2009

List of Graduating Students 2009/2010

List of Graduating Students 2010/2011

List of Graduating Students 2011/2012

List of Graduating Students 2012/2013

List of Graduating Students 2013/2014

List of Graduating Students 2014/2015

List of Graduating Students 2015/2016

## FOREWORD

**Professor Eghosa E. Osaghae**

*Vice-Chancellor*

On behalf of Igbinedion University, Okada, I welcome all the new and old students to this great citadel of learning. I also wish you all an enjoyable and successful stay in the University and successful academic years ahead.

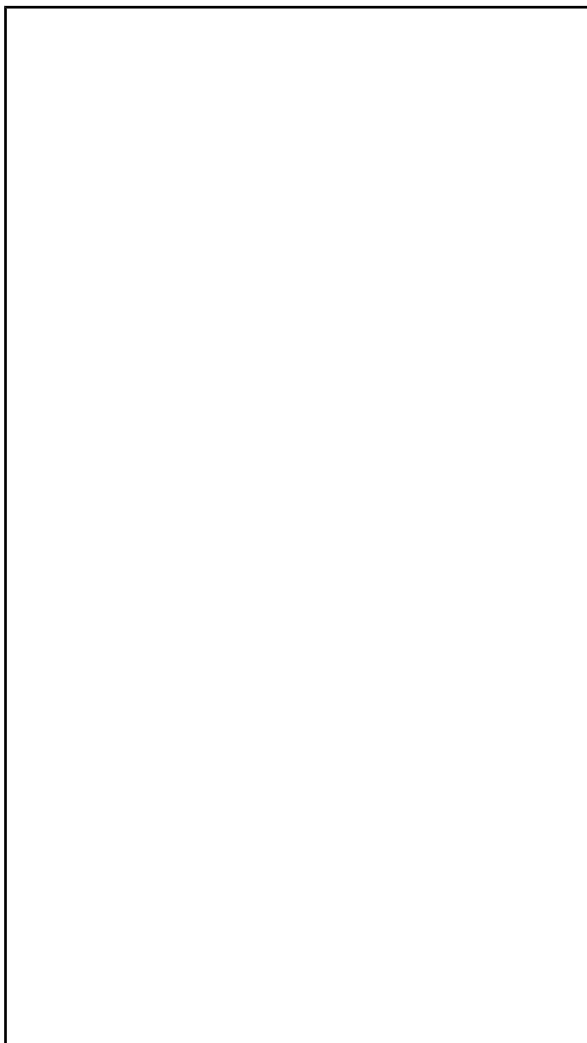
In this edition of the prospectus, the academic programmes of most departments have been upgraded. They contain relevant general information about the University, including the courses available and their outlines. It is my hope that you will find this prospectus a most invaluable document.

May I seize this opportunity to remind both staff and students that the primary objective of the University is to advance knowledge, wisdom and understanding through teaching and research in order to give service to the community; and that the University will confer degree only on those who are found to be worthy in character and learning. I therefore hope that we shall all resist the temptation to engage in unproductive ventures and social vices.

The motto of Igbinedion University is KNOWLEDGE AND EXCELLENCE. Therefore, I invite every student to share our ideals of learning and research which will be combined with practical application in development. The strength of the University lies in its orientation towards productivity, self-employability, self-sustenance and self-reliant training for the student.

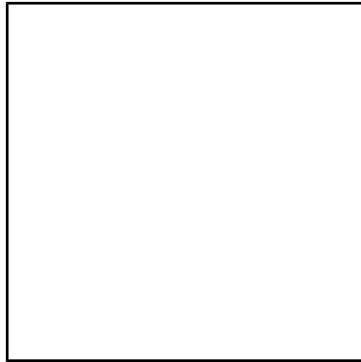
Welcome to our world.

**Chief Sir (Dr) Gabriel Osawaru Igbinedion, CON, CFR**  
*GCKB, DLITT, LLD, MIT, CFR, JP*  
*Esama of Benin*  
*Chancellor / Visitor*



Dr. Lucky Nosakhare Igbinedion  
Deputy Chancellor

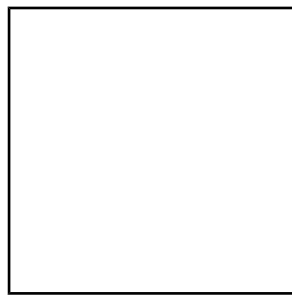
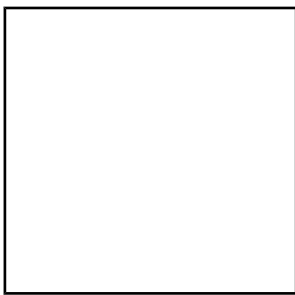




Emeritus Prof. Oluwale E. Akande  
Pro-Chancellor/Chairman of Council



Professor Eghosa E. Osaghae JP  
*Vice Chancellor*



**Professor Charity U. Emaviwe**  
*Deputy Vice Chancellor*

**Mr. Edwin O. Okoro**  
*Registrar & Secretary  
to the Governing Council*



**Mr. Nosa M. Edogiawerie**  
*Bursar*



**Mr. Y. A. Izevbekhai**  
*University Librarian*

## **VISION**

To become a centre of academic excellence through teaching and research activities in response to communal and globalized human needs.

## **MISSION**

1. To be among the best and most successful universities in the country.

2. To provide overall service and good value for money in the university education.
3. To excel in anticipating, responding quickly and competitively to students needs and staff development.
4. To maintain a growth that responds to overall global expansion and challenges in teaching and research.
5. To produce through our quality programmes, university graduates whose certificates open all doors to upward economic and social mobility.
6. To expand our research activities globally by creating linkages and collaboration networks amongst leading universities and research institutions worldwide.
7. To regularly seek to maintain the acquisition of knowledge and excellence.
8. Igbinedion University will operate a competency driven scheme which allows staff to acquire new skills, improve knowledge base and remain competitive in their areas of specialization.
9. To regularly survey the environment in order to identify areas of need with a view to contributing to the community and registering a significant presence nationally and worldwide.

## **ACCREDITATION**

Academic programmes (undergraduate and postgraduate) offered by Igbinedion University are accredited by the National Universities Commission (NUC), the federal regulatory agency for university education in Nigeria. In addition, professional programmes are also accredited by professional regulatory agencies as required by law. These include the Medical and Dental Council of Nigeria, MDCN (for medicine), Council for the Regulation of Engineering in Nigeria, COREN (Engineering programmes), Council of Legal Education (Law), Pharmacists' Council of Nigeria, PCN (Pharmacy), Medical Laboratory Council of Nigeria (Medical Laboratory Sciences), and Institute of Chartered Accountants of Nigeria, ICAN (Accounting).

## **RECOGNITIONS AND DISTINCTIONS**

- Rated in *Top Ten Law Schools* in Nigeria (2013).
- First First Class Honours graduate in Nigerian Bar Examinations from Private University (2006).
- Pioneer and elading private university medical school.
- Top Engineering College in Private University Sector (2006-2012)

## **HISTORICAL NOTES**

Igbinedion University, Okada marks the realization of the dream of Chief (Sir) Dr. Gabriel Osawaru Igbinedion, the Esama of Benin Kingdom, to bequeath to future generation of Nigeria University education of international standard where academic calendar is faithfully run without interruption.

The Planning Committee was inaugurated on 13<sup>th</sup> March 1995, comprising distinguished scholars and seasoned University administrators whose responsibilities amongst others included the formulation of the Academic Brief for the actualization of the Igbinedion University project.

The members of the Committee were: Chief (Dr) Sir G. O. Igbinedion *JP* (Proprietor/Chairman), Late Pa S. I. Omorogbe, *JP* (Vice Chairman), Prof. T. M. Yesufu, Amb. (Dr.) A. I. Guobadia, Mr. Frank I. Imouokhome, Late Prof. P. N. Egharevba, Mr. Bright Igbinedion, A. O. Eghobamien Esq (*SAN*) (Member/Legal Adviser), Late Prince R. A. Williams *JP* (Member/Secretary).

The Committee's dedication to duty and resolute determination to provide a unique platform for higher education in Nigeria resulted in the presentation of Certificate No. 01 dated 20<sup>th</sup> April 1999, to Chief Igbinedion on 10<sup>th</sup> of May 1999. An Implementation Committee was immediately constituted on 12<sup>th</sup> May 1999 with the enlargement of the Planning Committee to include Prof. E. U. Emovon, *FAS* as the interim Vice Chancellor, Hon. Justice I. O. Aluyi, (Rtd), Mr. I. E. Edokpolor and Dr. T. B. E. Ogiamien, with Prince R. A. Williams as the Registrar. The Committee was dissolved with the inauguration of the Governing Council of the University on 14<sup>th</sup> October 1999 by the Proprietor and Chancellor. The Implementation Committee worked assiduously for six months as the Provisional Governing Council and Senate, guiding the physical and academic developments of the University. Prof. Bashir Ahmad Ikara was the Pro-Chancellor and Chairman of the Governing Council whose composition spanned the length and breadth of Nigeria and covered a variety of professions and interests. The members included: Prof. Bashir Ahmad Ikara - Pro-Chancellor & Chairman, Prof. E. U. Emovon, *FAS* - Vice Chancellor ad interim, Mr. Bright Igbinedion, Dr. B. J. E. Itsueli, Prof. A. U. Osagie, Dr. S. A. Ingawa, Prof. P. O. Erhabor, Prof. Olu Aina, Prof. G. C. Onyemelukwe, Prof. Mike Kwanashie, Engr Festus Omo Evbuomwan, Hon. Justice (Rtd) I. O. Aluyi, Amb. (Dr.) Abel I. Guobadia (*JP*), Chief Eduwu Ekhaton Obasogie (*JP*), Chief M. Okoya Thomas, Prof. Ikejiani-Clark, Prof. A. Akindoyemi, Prof. U. Joy Ogwu, Mr. R. A. Williams (*JP*) - Registrar & Secretary.

Profess Anthony U. Osagi who was appointed Vice-Chancellor, served from 29<sup>th</sup> October, 1999 to 30<sup>th</sup> November, 2003, while Prince R.A. Williams remained the Registrar and Secretary to Council till 31<sup>st</sup> May, 2000. Thereafter, Mrs. O.T. Oni (Deputy Registrar) acted as the Registrar from 1<sup>st</sup> June 2000 to 28<sup>th</sup> November, 2001. Dr. (Mrs.) S.A. Asagwara assumed duty as the second substantive Registrar and Secretary to Council on 29<sup>th</sup> November 2001. Dr. (Mrs.) Asagwara withdrew her service on 31<sup>st</sup> July 2007. Mr. P.S. Nwaokolo served as the Acting Registrar from 1<sup>st</sup> August, 2007 to 5<sup>th</sup> May, 2009. On 6<sup>th</sup> May, 2009, Mr. Edwin O. Okoro assumed duty as the third substantive Registrar. Dr. D.O. Olopade assumed duty as Bursar on 12<sup>th</sup> November, 2001 while Mr. R. Olorunsola became the Ag. University Librarian on 22<sup>nd</sup> November 2002. Dr. (Mrs.) G.D. Ekpenyong served as University Librarian from 13<sup>th</sup> March, 2007 to 29<sup>th</sup> January, 2009. Mr. Osas T. Evbayekha *JP* was appointed Bursar on 11<sup>th</sup> November 2007, while the University Librarian, Mr. Yakubu A. Izevbekhai assumed duty on 1<sup>st</sup> June, 2009. Mr. Nosa Edogiawerie was appointed Acting Bursar on 3<sup>rd</sup> September, 2010 and confirmed substantive Bursar on 1<sup>st</sup> June, 2015.

With the exit of Prof. Ikara in 2001, in response to a call for national service, Prof. Olu Aina, OFR, former Registrar and Chief Executive of National Business and Technical Examinations Board (NABTEB), was appointed the Pro-Chancellor and Chairman of the Governing Council. Prof. Nduka Uraih served as Deputy Vice Chancellor from 2000 – 2003 and as Ag. Vice Chancellor from

December 2003 to 11<sup>th</sup> September, 2004 following the expiration of the tenure of Prof. A.U. Osagie. In July 2004, the Council was reconstituted and Prof. Olu Aina OFR was re-appointed the Pro-Chancellor and Chairman of the current Governing Council to which Prof. Femi Odekunle was appointed a member on 13<sup>th</sup> September 2008.

On 13<sup>th</sup> September 2004, Professor Eghosa E. Osaghae of the University of Ibadan, assumed duty as the second substantive Vice Chancellor, He was re-appointed for a second term of five years on 13<sup>th</sup> September 2008 and reappointed again on 8<sup>th</sup> July 2013 with effect from 13<sup>th</sup> September 2013. Professor Dennis E. Agbonlahor, former Vice Chancellor of Ambrose Alli University, Ekpoma, was appointed Administrative Consultant to the University in September, 2004, to help ease off the task of the Hon. Chancellor, a position he held until February 2006. on 12<sup>th</sup> September 2005. Prof. L.C. Chiedozi was appointed the second Deputy Vice Chancellor. On expiration of his tenure, Prof. (Mrs.) Tonye G. Okorie was appointed Deputy Vice Chancellor on 13<sup>th</sup> September 2008. On 1<sup>st</sup> October 2013, Prof. Alexander B. Odaibo was appointed Deputy Vice Chancellor following the expiration of the tenure of Prof. (Mrs.) Tonye G. Okorie. Prof. (Mrs.) Charity U. Emaviwe was appointed Deputy Vice Chancellor on 1<sup>st</sup> September, 2015 on the expiration of the tenure of Prof. Alexander B. Odaibo.

## **Academic History**

The University commenced its academic programmes in the 1999/2000 session in five Colleges namely, Arts and Social Sciences, Business and Management Studies, Health Sciences, Law and Natural and Applied Sciences. The foundation students arrived Okada on Friday, 15<sup>th</sup> October 1999. Since then, the University has without interruption upheld its resolve to return tertiary education to the internationally accepted calendar of September to June. The College of Engineering commenced its programme in the 2002/2003 session. The College of Health Sciences continues to be an area of popular demand. The College of Pharmacy and B.Sc. Nursing commenced in 2004/2005 session. The Igbinedion University Teaching Hospital, administered by a Management Board inaugurated first on 12<sup>th</sup> January 2003, oversees the affairs of the Hospital. As part of its objectives to train and produce job providers, Igbinedion University has packaged entrepreneurial and skills acquisition modules to expose students sufficiently enough to be “fit for the world of work”. In addition, a community service programme was introduced in the 2009/2010 session. Under the programme, all second year students across the Colleges are required to undertake a practical development programme in a chosen area and community in and round the university community/town.

The student population has grown steadily from 111 in the 1999/2000 session to 4018 in 2014/2015, while the staff strength has increased from 55 in 1999/2000 to 617 made of 293 Teaching Staff (53 of who are Professors), 143 Senior Non-Teaching staff and 191 Junior and Intermediate staff over the same period.

Academic programmes in Medicine, Law, Arts and Social Sciences, Business and Management Studies, Natural and Applied Sciences, and Engineering, which are mature are re-accredited, from time to time by Nigerian Universities Commission and the relevant professional bodies.

The Oba Erediauwa College of Law turned out its first crop of graduates in 2004. The eleventh batch graduating today is already at the Law School.

At this convocation, the University is graduating its eighth set of Medical Doctors, and has continued to maintain the distinction of being the first ever Private University in Africa, South of the Sahara to produce medical doctors. The University is also graduating her eighth crop of talented and well groomed Engineers from the Gen. Abdulsalami Abubakar College of Engineering.

## UNIVERSITY ADMINISTRATION (1999 TO DATE)

### I. Vice-Chancellors

1. Prof. Anthony U. Osagie - 29<sup>th</sup> October, 1999-30<sup>th</sup> November, 2003
2. Prof. Nduka Uraih (*Acting*) - 1<sup>st</sup> December, 2003 – 11<sup>th</sup> September, 2004
3. Rev. Prof. Eghosa E. Osaghae, JP - 1<sup>st</sup> Term: 13<sup>th</sup> September, 2004 – 12<sup>th</sup> September, 2008  
2<sup>nd</sup> Term: 13<sup>th</sup> September, 2008 to date

### Administrative Consultant to the University

- Prof. Dennis E. Agbonlahor - 13<sup>th</sup> September, 2004 – 28<sup>th</sup> February, 2006

### Deputy Vice-Chancellors

1. Prof. Nduka Uraih - 2000 – 30<sup>th</sup> November, 2003
2. Prof. L.C. Chiedozi - 12<sup>th</sup> September, 2005 – 12<sup>th</sup> September, 2008
3. Prof. (Mrs.) Tonye G. Okorie - 15<sup>th</sup> September, 2008 to 30<sup>th</sup> September, 2013
4. Prof. Alexander B. Odaibo - 1<sup>st</sup> October, 2013 to 1<sup>st</sup> September, 2015
5. Prof. Charity U. Emaviwe *FCI Arb-* 1<sup>st</sup> September, 2015 to date

### II. Registrars and Secretary to Council

1. Mr. R.A. Williams, JP - 14<sup>th</sup> October, 1999 – 31<sup>st</sup> May, 2000
2. Mrs. O.T. Oni, Ag. Registrar - 1<sup>st</sup> June, 2000 – 28<sup>th</sup> November, 2001
3. Dr. (Mrs.) Sally A. Asagwara - 29<sup>th</sup> November, 2001 – 31<sup>st</sup> July, 2007
4. Mr. P.S. Nwaokolo, Ag. Registrar-1<sup>st</sup> August, 2007 – 5<sup>th</sup> May, 2009
5. Mr. Edwin O. Okoro - 6<sup>th</sup> May, 2009 to date

### III. Bursars

1. Dr. D.O. Olopade - 12<sup>th</sup> November, 2001 – November, 2007

2. Mr. Fred S. Idemudia, Ag. Bursar -
3. Mr. O.T. Evbayekha - 11<sup>th</sup> November, 2007 – October 2010
4. Mr. Nosa Edogiawerie, Bursar - October, 2010 to date

#### IV. **Librarians**

1. Mr. F. A. Akinyotu (University Librarian) – October, 1999 – 29<sup>th</sup> October, 2001
2. Mr. D. A. Idada (Acting Librarian) - 29<sup>th</sup> October, 2001 – 30<sup>th</sup> April, 2002
3. Mr. R. A. Olorunsola, (Acting Librarian) – 22<sup>nd</sup> November, 2002 – 6<sup>th</sup> November, 2006
4. Mr. J. I. Adeyomoyo (Acting Librarian) - 6<sup>th</sup> November, 2006 – 12<sup>th</sup> March, 2007
5. Dr. (Mrs.) G.D. Ekpenyong (University Librarian) – 13<sup>th</sup> March, 2007 – 29<sup>th</sup> January, 2009
6. Mr. Yakubu A. Izevbekhai (University Librarian) – 1<sup>st</sup> June, 2009 to date

#### **UNIVERSITY FOUNDATION DAY**

Following the presentation of the Certificate to establish Igbinedion University to Chief (Dr.) Sir Gabriel Osawaru Igbinedion on 10<sup>th</sup> May 1999, the date **10<sup>th</sup> May** has been adopted as the University's foundation day. Consequently, the maiden celebration was marked in May 2005, second in May 2006, the third in 2007, the fourth in May 2008, the fifth in May, 2009, the sixth in May, 2010, the seventh in May, 2011, the eight in May, 2012, the ninth in May, 2013 and the tenth in May, 2014. The University celebrated its 10<sup>th</sup> milestone anniversary in May 2009.

#### **COLLABORATIONS LINKAGES**

The University has been working in collaboration with

- i) Westminster University, United Kingdom
- ii) Howard University, Washington, U. S. A. in various areas of academic endeavour.
- iii) Otto-VON-Guericke University of Magdeburg, Germany
- iv) University of Sierra-Leone
- v) Ryokuku University, Japan
- vi) East Carolina University, U.S.A.

#### **SENATE MEMBERS**

<b>Name</b>	<b>Designation</b>
Prof. E.E. Osaghae	Vice Chancellor/Chairman

Prof. Charity U. Emaviwe	Deputy Vice Chancellor
Mr. Y.A. Izevbekhai	University Librarian
Prof. J.A. Unuigbe	Provost, College of Health Sciences
Prof. Tonye G. Okorie	Dean, PG School & Research
Prof. J.M. Oke	Dean, College of Pharmacy/HOD, Pharmaceutical Chemistry
Prof. P. B. Osofisan	Dean, College of Engineering
Prof. G.N. Bazuaye	Dean, School of Clinical Medicine
Prof. R.J. Ijaodola	Dean, Oba Erediauwa College of Law
Prof. L.C. Chiedozi	HOD Surgery
Prof. J.E. Ehiagbonare	Dean, College of Natural & Applied Sciences
Prof. N.G. Osifo	Department of Pharmacology & Therapeutics
Prof. V.A. Josephs	HOD, Internal Medicine
Prof. F.C. Okafor	Department of Geog. & Reg. Planning CASS
Prof. M. I. Agba	HOD, Medical Microbiology
Prof. C.L. Orjiekwe	HOD, Chemistry, NAS
Prof. L. Anyanwu	HOD, Comp. Sci. & Information Technology
Prof. J.A. Awe	Department of Surgery
Prof. A.A. Gbolade	College of Pharmacy
Prof. P.I. Aziba	Department of Pharmacology
Prof. Sylvia Osemwenkha	Department of Sociology
Prof. I.A. Onyeakagbu	College of Law
Prof. O.A. Uguwumba	Department of Biological Sciences
Dr. R. Adeghe	Ag. Dean CBMS/Ag. HOD Banking & Finance
Dr. S.J. Josiah	Ag. Dean, Basic Medical Sciences
Dr. Deborah O. Odejimi	Ag. Dean, CASS/Ag. HOD Econs. & Co-ord. SIWES
Dr. D.O. Osaghae	Ag. HOD, Pediatrics
Dr. D.O. Umobuarie	Ag. Director, EPS Programme
Dr. A. Labiran	Ag. HOD, Community Health
Dr. F.O. Oseji	Ag. HOD, Clinical pharmacy & Pharmacy Practice
Dr. J.C Nwanze	Ag. HOD, Pharmacology & Therapeutics
Dr. F.M. Olufunmilade	Ag. HOD, Inter. Rel. & Strategic Studies
Dr. D.U. Ibe	Ag. HOD, Public Law / Representative of Congregation
Dr. K.A. Digban	Ag. HOD, Medical Laboratory Science
Dr. Praise C. Daniel-Inim	Ag. HOD, Theatre Arts
Dr. Omimi-Ejor Atu	Ag. HOD, Accounting
Dr. O.G. Izevbuwa	Ag. HOD, Private & Property Law
Dr. A. Elebute	Ag. HOD, Mass Communication
Dr. E.J. Okafor-Elenwo	Ag. HOD, Biological Sciences
Dr. O.D. Popoola	Ag. HOD, Sociology & Anthropology
Dr. S.M. Aguwanba	Ag. HOD, Business & Management Studies
Dr. F.N. Nwachokor	Ag. HOD, Morbid Anatomy
Dr. O.B. Idonije	Ag. HOD, Chemical Pathology
Dr. S.C.O. Nwangwu	Ag. HOD, Biochemistry
Mrs. F.U. Masajuwa	Ag. HOD, Political Science & Public Administration
Mr. F.A. Izilein	Ag. HOD, Electrical/Computer Engineering
Mr. I. Folorunsho	Ag. HOD, Geography and Regional planning
Mr. O.B.D. Arimah	Ag. HOD, Pharmaceutical microbiology
Mr. M. Adebayo	Ag. HOD, Pharmacognocny
Mr. I.O. Okediran	Ag. HOD, Nursing Science
Mrs. M.O. Ezugwu	Ag. HOD, Civil Engineering
Mr. C. Mamudu	Ag. HOD, English



Mr. Y. Yerima	Ag. HOD, Chemical /Petroleum Engineering
Mr. K.O. Ajeigbe	Ag. HOD, Physiology
Mr. J. Nwazi	Ag. HOD, Business Law
Miss U. Okwuonu	Ag. HOD, Anatomy
Mr. A.A. Erameh	Ag. HOD, Mechanical Engineering
Mr. H. Omorogbe	Representative of Congregation
Mr. D. Olowokere	Head, ICT
Mr. E. O. Okoro	Registrar/Secretary

## **IN ATTENDANCE**

Mr. N. Edogiawerie	Bursar
Mr. L.P.E. Jagbedia	Deputy Registrar (Council & General Admin.)
Dr. Angela O. Idonije	Deputy Registrar (Academic Planning)
Mrs. I. Igbiosa	PAR (Academic Affairs)
Mr. C.O. Osunbor	PAR-College Officer, College of Law
Mr. O. Olaoke	AR-Secretary, College of Health Sciences
Mr. K. Igbinedion	AR-Ag. Head Student Affairs/S.A. Officer
Mrs. D. Omoregie	AR-College Officer, College of Pharmacy
Mrs. A. Ezewele	AR-College Officer, College of Engineering
Miss J.P. Idehen	AR-College Officer, School of Clinical Medicine
Mr. F.E. Osaseri	Desk Officer, Human Help Services
Miss E.N. Okafor	AOII-Secretary, Postgraduate School & Research
Mrs. R. Usiohen	AOII-College Officer, College of Arts & Soc. Sci.
Mrs. M.N. Okpeseyi	AOII-College Officer, College of Bus. & Mgt. Studies
Mrs. S. Ikolo	AOII-College Officer, Sch. of Basic Med. Sciences
Mrs. G.O. Akele	AOII- College Officer, College of Nat. & App. Sciences
Mr. O.A. Omogiade	AOII (Academic Affairs/Senate)

## **PART I**

### **LAW ESTABLISHING THE IGBINEDION UNIVERSITY, OKADA, NIGERIA**

#### **Introduction**

The Law establishing the IGBINEDION UNIVERSITY, OKADA derives from two main sources, namely:

- i. The Federal Republic of Nigeria Companies and Allied Matters Decree (No.1) of 1990 under which a Memorandum and Articles of Association of the Igbinedion University incorporated (Limited Guarantee) was approved on 20<sup>th</sup> day of October, 1992 (Vide Certificate No.226006).
- ii. The Education (National Minimum Standards and Establishment of Institutions) (Amendment) Decree 1993, otherwise known as Decree No. 9 of 1<sup>st</sup> January 1993 under which Certificate No. 01 of 24<sup>th</sup> April 1999 was issued by the Honourable Minister of Education on behalf of the Federal Military Government.

## 1. Short Title and Commencement Date

This Law may be cited as the Igbinedion University Law and shall be deemed to have come into force on the 10<sup>th</sup> day of May, 1999.

## 2. Interpretation

In this Law, unless the context otherwise requires:

“academic year”	means such period not exceeding twelve consecutive months as the Senate may from time to time designate;
“alumni”	means any association recognized by the Council as being representative of former students of the University;
“academic staff”	means the Vice-Chancellor, Deputy Vice Chancellor, Professors, Associate Professors, Senior Lecturers, Lecturers, Assistant Lecturers, Graduate Assistants, the University Librarian, Librarians, Research Fellows and such other graduate persons in the employ of the University engaged in teaching or research responsibility therein as the Council acting in accordance with the recommendation of the Senate, may from time to time grant the status of members of the academic staff of the University;
“administrative staff”	means those persons in the employ of the University, other than the academic staff, who hold administrative, professional or technical posts designated by the Council as senior posts;
“appointed day”	means the day on which this Law comes into force;
“appointing body”	means the person or body that has power to appoint;
“the board”	means the Board of Regents/Trustees of the University in context;
“bursar”	means the Bursar of the University;
“chancellor”	means the Chancellor of the University;
“child”	means a child or an adopted child of a staff who is an adult;
“college”	means the College of the University;
“congregation”	means the Congregation of the University established by Section 21 of this Law;
“convocation”	means the convocation of the University established by Section 20 of this Law;

“council”	means the Council of the University established by Section 15 of this Law;
“deputy Vice-Chancellor”	means the Deputy Vice-Chancellor of the University;
“dependent”	means a person who relies on a staff for support;
“functions”	includes powers and duties;
“graduate”	means a person on whom a degree other than an honorary degree has been conferred by the University and any other person as may be designated as graduate by the Council, acting in accordance with the recommendation of the Senate;
“husband”	means the spouse of a staff of the University;
“non-academic staff”	means administrative and other staff of the University;
“notice”	means notice in writing;
“ordinance”	means any Ordinances of the University made by the Council pursuant to the provision of this Law;
“other staff”	means those persons in the employ of the University who are not members of the academic staff or the administrative staff;
“president”	means the President of the Board of Regents;
“pro-chancellor”	means the Chairman of the Governing Council of the University;
“professor”	means a person appointed to be a Professor in the University and includes a Visiting Professor;
“property”	includes rights, liabilities and obligations;
“prescribed”	means prescribed by this Law or by Statutes, Ordinances or Regulations of the University;
“provisional council”	means the Provisional Council established under the Igbinedion University (Provisional Council) Law;
“regents”	means the Board of Regents of the University;
“registrar”	means the Registrar of the University;
“regulation”	means the Regulation of the University made by the Senate or by the Board as the case may be pursuant to the provision of this Law or the Statutes;
“senate”	means the Senate of the University;
“statutes”	means the Statutes of the University;
“student”	means a person who has been registered as a student of the University during a current academic year for a first or higher degree, diploma certificate or such other qualification of the University as may be approved by the Senate as qualifying a person for the status of a student;
“trustees”	means the Board of Trustees of the University;
“teacher”	means a person appointed as a member of staff of the University on full-time or part-time teaching duties and shall include such persons employed on research duties in the University as are required also to teach;
“undergraduate”	means a person who has matriculated and registered as a student undergoing a course of studies for a first degree of the University;

“university”	means the Igbinedion University established by Section 3 of this Law;
“university librarian”	means the Librarian of the University;
“vice-chancellor”	means the Vice-Chancellor of the University;
“visitor”	means the Visitor of the University;
“widow”	means the wife of a deceased staff;
“wife”	means the spouse of a staff of the University.

## **PART II**

### **3. Establishment, Incorporation, Objects, Implementation of the Objects and Functions of the University**

- i. There is established, by Certificate No. 01 dated the 10 day of May, 1999, issued by the Hon. Minister of Education pursuant to the Education (National Minimum Standards and Establishment of Institutions) (Amendment) Decree No. 9 of 1<sup>st</sup> January 1993, IGBINEDION UNIVERSITY, OKADA hereinafter referred to as “the University.”
- ii. The University shall be a body corporate with perpetual succession and a common seal and shall have power to sue and be sued in its corporate name and to acquire, hold and dispose of movable and immovable property for the purposes of its functions under this Law.

### **4. OBJECTS**

The objects of the University shall be:

- i. to train qualified personnel imbued with the spirit of service and development;
- ii. to offer wide opportunities for higher education to all persons who can benefit from it, without distinction of race, religion, sex, or political conviction/persuasion;
- iii. to train scientists, engineers, doctors, teachers, economists, lawyers and other professionals, including specialists in the field of humanities and to conduct research in science and technology;
- iv. to carry out research in problems relating to the development of the national economy, science and technology and culture and to advance knowledge;
- v. to train teachers and academic research staff for the universities and other higher educational institutions;
- vi. to promote scientific knowledge and disseminate its results for socio-economic benefits;
- vii. to undertake any other activities appropriate for a university of the highest standard.

### **5. FUNCTIONS OF THE UNIVERSITY**

- (1) In order to carry out its objects as specified in (4) above, the University shall have powers,
  - a) to establish Colleges, Campuses, Schools, Institutes, Departments and other teaching and research units within the University as may from time to time be deemed necessary and subject to the approval of the Governing Council and the Board of Regents;
  - b) to institute Professorships, Associate professorships, Lectureships, Research Fellowships and other offices and posts to which appointments can be made;
  - c) to institute and award fellowships, scholarships, bursaries, medals, prizes and other titles and distinctions, etc., and to mount exhibitions;
  - d) to prescribe from time to time the conditions under which persons shall be admitted to the University or to any particular course of study therein or to be allowed to continue in such course of study;

- e) to grant and confer, under conditions prescribed by the University, Degrees, Diplomas, Certificates and other academic titles and distinctions, to and on persons who have pursued a course of study approved by the University and have passed such examinations or other tests and satisfied such other requirements as the University may prescribe;
- f) to confer Honorary Degrees, Fellowships and other academic distinctions;
- g) to deprive any person, for good cause, of any Degree, Diploma, Certificate, Fellowship, Scholarship, Studentship, Bursary, Medal, Prize or other academic titles conferred on him by the University;
- h) to provide such lectures and instructions for persons not being members of the University as the University may determine and to grant to any such persons such Diplomas, Certificates or other academic distinctions as the University may deem necessary;
- i) to accept the examinations passed and periods of study spent by students in the University as the University may determine, and to withdraw such acceptance at any time;
- j) to affiliate with other institutions or branches or departments thereof and recognize selected members of the staff thereof as teachers of the University, and admit the members thereof to any of the privileges of the University, and accept attendance or departments thereof in such institutions or branches or departments thereof in place of such part of the attendance at course of study in the University and upon such terms and conditions as may from time to time, be determined by the University;
- k) to make provision for research, advisory and consultancy services and with those objects in view to enter into such arrangements with both private and public bodies as the University may deem desirable;
- l) to undertake printing, publishing and bookselling;
- m) to engage in any agricultural, industrial and commercial ventures for the purpose of generating revenue for the promotion of the objectives of the University;
- n) to cater for the welfare and discipline of members of the University and its employees;
- o) to demand and receive such fees as may from time to time be prescribed by the University;
- p) to acquire, hold, grant, charge or otherwise deal with or dispose of movable and immovable property wherever situate;
- q) to accept gifts, legacies and donations at its absolute but without obligation to accept the same for a particular purpose unless the University approves the terms and conditions attaching thereto;
- r) to enter into contracts, establish trust and incorporate companies solely or jointly with any other authority or institution and to employ and act through agents;
- s) to erect, provide, equip and maintain libraries, laboratories, lecture halls, refectories, sports ground, playing fields and other buildings or things (whether in Nigeria or elsewhere) necessary or suitable or convenient for any of the objects of the University;
- t) subject to any limitations or conditions imposed by or in accordance with the Law, to invest any moneys appertaining to the University by way of endowment and whether for general or special purposes, and such other moneys as may not be immediately required for current expenditure, in any approved investments or securities or in the purchase of improvement of land, with power from time to time to vary any such investment and to deposit any current moneys for the time being uninvested with any bank;
- u) to take such steps as may from time to time be deemed expedient for the purpose of procuring contributions to the funds of the University;
- v) to borrow, whether at interest or not and if need be upon the security of any or all the property, movable or immovable, of the university, such moneys as the University may from time to time in its discretion find necessary or expedient to borrow;
- w) to make gifts for any charitable purpose;
- x) to do anything which it is authorized or required by this Law or by Statute, Ordinance or Regulations to do;

- y) to do all such acts and things whether incidental to the powers aforesaid or not as may be required in order to further the objects of the University as a place of education and of learning and research;
  - z) to establish linkages with other universities/comparable institutions and other agencies or development partners, with a view to building the capacity of the university;
  - (aa) to train or develop staff, explore local and international research opportunities and to secure grants for the development of the universities;
  - (ab) to pursue tenaciously, quality recruitment admission policies;
  - (ac) the University will aspire to develop flexible programmes that are responsive to local/national needs and beyond;
  - (ad) to articulate adequate welfare packages for staff with a view to developing a healthy workforce that is capable of carrying the University forward through its mission statement;
  - (ae) to make the University an active participant in the globalization and Information Communication and Technology (ICT) system with a view to bringing the University into direct access with the international community;
  - (af) to acquire landed property for the purposes of encouraging growth and development.
2. The powers conferred upon the University by sub-section (1) of this section shall not necessarily have to be exercised by the officers, authorities and persons mentioned in Part III as comprising the University acting together on any one occasion and any such powers may be exercised by any of those officers, authorities, persons or others where provisions enabling any of them so to do is made in or by virtue of this Law.

## **6. THE VISITOR AND HIS FUNCTIONS**

- (i) The President of the Board of Regents of Igbinedion University, Okada shall be the Visitor of the University.
- (ii) The Visitor shall as often as the circumstances may require not being less than once in every five years undertake a visitation of the University or direct that such a visitation be conducted by a selected team of academics and professionals setup by the Visitor for the purpose of a visitation to:
  - (a) conduct a programme on evaluation of the philosophy and targets of the University;
  - (b) ensure that the academic currency originally envisaged is not devalued;
  - (c) set up commissions of enquiry for the purposes of settling disputes, determining and resolving issues in respect of all or any part of the affairs of the University; and
- (iii) It shall be the duty of all officers, members, authorities, employees of the persons otherwise connected with the University to make available to the Visitor, and to any other person or persons conducting a visitation in pursuance of this section such facilities and assistance as he or they may reasonably require of the visitation.

## **7 PROHIBITION OF DISCRIMINATION ON GROUNDS OF RACE, CREED, CLASS, RELIGION**

- (i) Membership of the University shall be open to all persons of either sex and of whatever race, ethnic group or place of origin, religion, political or other opinion, nationality or

class, and no test of religion or other belief or profession, shall be adopted or imposed in order to entitle any person to be admitted to membership or to be awarded any degree, certificate or other academic distinction of the University.

- (ii) No Fellowship, Scholarship, Studentship, Medal, Prize or other academic distinction or award of the University shall be limited to persons of any particular race or ethnic group or place of origin, political or other opinion, religion, nationality, or class if the cost of the same is met from the general funds of the University.

## **8 COMMON SEAL**

The Common Seal of the University shall be kept in such custody as the Council may direct and shall not be used except by resolution of the Council or in such other manner as may be prescribed by Statute.

## **PART III**

### **The Constituent Bodies**

## **9 PRINCIPAL OFFICERS, AND OTHER AUTHORITIES OF THE UNIVERSITY**

### **The Visitor/Chancellor and his functions**

There shall be a Chancellor of the University who shall be appointed by the Board of Regents and be Head of the University.

### **THE PRINCIPAL OFFICERS**

#### **(b) PRO-CHANCELLOR**

1. The Pro-Chancellor shall be appointed and removed from office by the Visitor.
2. Subject to the provision of the law, the Pro-Chancellor shall be the Chairman of Governing Council and hold office for a period of 3 years commencing from the date of appointment, subject to renewal for another term of 3 years.
3. He shall, in relation to the University, take precedence before all other members of University except the Vice Chancellor when acting as Chairman of Convocation or the Deputy Vice-Chancellor when so acting. The Pro-Chancellor shall, when he is present, be the Chairman of all Meetings of the Council.
4. If it appears to the Visitor after consultation with the Council that the Pro-Chancellor should be removed from office on grounds of misconduct or of inability to perform the functions of his office, the Visitor may by written notice remove the Pro-Chancellor from office; provided that if the proposed removal from office is solely or partly on grounds of misconduct, the Pro-Chancellor shall be given an opportunity of making representation through the Council to the Visitor with respect to the allegations made against him for the purpose of enabling the Visitor to give him a fair hearing in the matter.

#### **(c) VICE-CHANCELLOR**

1. There shall be a Vice-Chancellor of the University who must be a Professor and be the chief academic and executive officer of the University and ex-officio Chairman of the Senate, and who shall in the absence of the Chancellor confer degrees and other academic titles and distinctions of the University.
2. The Vice-Chancellor shall be appointed by the Chancellor acting after consultation with the Council and Senate.
3. If it appears to the Visitor after consultation with the Council that the Vice-Chancellor should be removed from office on grounds of misconduct or of inability to perform the functions of his office, the Chancellor may by notice in writing remove the Vice-Chancellor from office provided that if the proposed removal from office is solely or partly on grounds of misconduct, the Vice-Chancellor shall be given an opportunity of making representation through the Council to the Chancellor with respect to the allegations made against him for the purpose of enabling the Chancellor give him a fair hearing in the matter.
4. In accordance with the provisions of this law, the Vice-Chancellor shall hold office for a period of 4 years, subject to renewal for another term of 3 years and on such terms as to the emoluments of his office as may be specified in his instrument of appointment.

**(d) THE DEPUTY VICE-CHANCELLOR**

1. There shall be a Deputy Vice-Chancellor who shall be a professor in the University who shall assist the Vice-Chancellor in his duties and shall act in the place of the Vice-Chancellor when the Vice-Chancellor is, for any reason, absent or otherwise unable to perform his functions as Vice-Chancellor.
2. The Deputy Vice-Chancellor shall be appointed by Council on the recommendation of the Vice-Chancellor after consultation with the Senate.
3. Subject to the provision of this law, the Deputy Vice-Chancellor shall hold office for a period of two years; beginning with the effective date of his appointment and on such terms as may be specified in his instrument of appointment.
4. The Deputy Vice-Chancellor shall be eligible for re-appointment for a second consecutive term of two years, but shall thereafter not be eligible for further appointment until two years have elapsed following the end of the second term.

**(e) THE REGISTRAR**

1. There shall be a Registrar who shall be the Chief Administrative Officer of the University and shall be responsible to the Vice-Chancellor for the day-to-day administrative work of the University.
2. The person holding the office of Registrar shall, by virtue of that office, be otherwise Secretary to the Board of Regents, unless specified, the Governing Council, the Senate, the Congregation and the Convocation.
3. The Registrar shall be appointed by Council on the recommendation of a Selection Board which shall consist of:
  - (i) the Pro-Chancellor, presiding
  - (ii) the Vice-Chancellor
  - (iii) four members appointed by the Council, not being members of the Senate;
  - (iv) two members appointed by the Senate
4. The Registrar shall hold office till the existing approved retiring age (of 60 years).



**(f) THE BURSAR**

1. There shall be a Bursar, who shall be the Chief Financial Officer of the University and shall be responsible to the Vice-Chancellor for the day-to-day administration and control of the financial affairs of the University.
2. The Bursar shall be appointed by Council on the recommendation of all Selection Board and shall hold office till the existing approved retiring age (of 60 years).

**(g) THE UNIVERSITY LIBRARIAN**

1. There shall be a University Librarian who shall be responsible to the Vice-Chancellor for the administration and co-ordination of library services of the University.
2. The University Librarian shall be appointed in the same manner as academic staff of the University and shall hold office till the existing approved retiring age (of 65 years).

**10 CONSTITUENT BODIES AND THEIR FUNCTIONS**

**10.01 THE BOARD OF REGENTS**

The Board of Regents shall be the Trustees of the University

**10.02 MEMBERSHIP**

- (a) The membership of the Board of Regents shall consist of:
  - (i) The President, who shall be the Chairman of the Board
  - (ii) Not more than seven other persons drawn from a variety of interests and experiences.
- (b) Unless determined otherwise by the Board, the Registrar shall be the Secretary to the Board.
- (c) Whenever it thinks it fit so to do, the Board may co-opt additional individuals who have specialized knowledge of one or more of the subjects to be considered at meetings of the Board, but such co-opted individuals shall not be entitled to vote.
- (d) The initial members of the Board shall be appointed by the subscribers to the Memorandum and Articles of Association, thereafter, vacancies may be filled on the authority, or at the discretion, of the President.
- (e) A member of the Board, not being an ex-officio member, may by notice in writing to the President, resign his membership thereof. A person may be removed from membership of the Board by notice in writing addressed to him by or on the authority of the President.

**10.03 POWERS OF THE BOARD**

Without prejudice to the generality of the provisions of paragraph 2 of these Articles, the Board shall have the powers and overall responsibilities to:

- (a) acquire land or other forms of property for the use of the University, and appoint in the first instance the initial Principal Officers of the University as, in its opinion, are necessary for the proper conduct of the business of the University, and determine the salaries and the conditions of service of such persons;
- (b) subject to the provisions of the Memorandum and Articles of Association and these Articles determine and schedule its own meetings, regulate its own proceedings, and manage and superintend the affairs of the University;
- (c) make statutes that will underpin the structure, institutions, and mode of governance of the University under the umbrella of the Governing Council and shall be divorced from the day-to-day management of the University and ensure its academic freedom;
- (d) assure adequate financial sourcing and endowments for the University;

- (e) appoint and determine the terms and conditions of appointment of the Chairman and other members of the Governing Council of the University;
- (f) receive and ratify the annual Budget/Estimates of Income and Expenditure of the University including medium and long term development proposals, to be prepared and submitted to it by the Governing Council, or such other person as may on an interim basis, be designated or commissioned for the purpose;
- (g) receive for the Governing Council, Annual Reports of the over-all activities of the University (academic and non-academic) including Audited accounts;
- (h) render statutory returns to relevant authorities as they affect the University;
- (i) deal with any other matters that may fall within the purview and responsibilities of the Board;
- (j) make bye-laws for the operations of the University and such shall not be repugnant to the Memorandum and Articles of Association.

#### **10.04 POWERS AS TO BYE-LAWS**

The Board shall have power to make, alter or revoke Bye-Laws for carrying on the business of the University, provided always that such Bye-Laws shall not be repugnant to the Memorandum and Articles of Association.

#### **10.05 COMMITTEES**

The Board may appoint standing committees as it deems necessary for its work to deal with general and special matters.

#### **10.06 MEETINGS**

- (i) The Board shall meet at least once every six months.
- (ii) Meetings of the Board may be convened at any time by or on the authority of the President or the authority of a two-third majority of members of the Board giving seven days notice in writing except in the case of emergency, to all members.
- (iii) All acts done in good faith by any meeting of the Board shall, notwithstanding that some defects be afterward discovered in the appointment or qualification of any member, or in the notices calling the meeting, be valid and effectual as if those defects had not existed.
- (iv) Vacancies or defects in membership of the Board shall not invalidate the actions of the Board or any meetings of the Board.
- (v) The quorum for a meeting of the Board shall be three (3) or one-third of total membership whichever is less. No business shall be transacted at any meeting of the Board unless such a quorum be present at the commencement of business. In the absence of quorum the meeting shall stand adjourned until the same day in the following week at the same time and place; and if at such adjourned meeting a quorum is not obtained those members who are present shall form a quorum and may transact business provided that if the said meeting was originally convened not at the instance of the President but that of a two-third majority of members, any adjourned meeting at which no quorum is obtained shall stand dissolved.
- (vi) The President shall preside at all meetings of the Board at which he is present, and in his absence the meetings shall be competent to elect one of its members to preside at the meeting.
- (vii) All questions put to the vote at a meeting of the Board shall be decided by show of hands, unless a poll is demanded by at least half of the members present, in which case the secret poll shall be taken at such time and in such manner as the presiding Chairman of the meeting shall direct, and the decision of the secret poll shall be deemed to be the decision of the meeting at which the poll was demanded.
- (viii) The Chairman may, and shall if so resolved by those present, adjourn a meeting from time to time and from place to place, but no business shall be transacted at such adjourned meeting other than that left unfinished at the meeting from which the adjournment took place. Whenever a meeting is adjourned for seven days or more notice shall be given of the adjourned meeting in the

same way, as to length of notice, as notice of an original meeting.

## **11. THE GOVERNING COUNCIL**

The Governing Council of the University shall be responsible for the determination of the policies, the development and governance of the University subject only to any general directives that may be given by the Board of Regents. The powers of the Governing Council shall be such as may be laid down in the Statutes of the University and promulgated by the Board of Regents. In all dealings of the Governing Council, and other organs of the University, the Governing Council shall ensure strict adherence to the national guidelines and standards as may be laid down by the National Universities Commission (NUC) from time to time.

### **11.01 MEMBERSHIP**

The membership of the Governing Council shall be:

- (i) The Chairman (who shall be the Pro-Chancellor of the University)
- (ii) The Vice-Chancellor
- (iii) The Deputy Vice-Chancellor
- (iv) Six persons representing a variety of interests appointed from outside the University
- (v) One representative of the, National Universities Commission (NUC)
- (vi) Two representatives of Senate
- (vii) Two members of the Board of Regents
- (viii) One representative of Convocation
- (ix) One representative of Congregation

### **MEETING**

The Registrar shall be Secretary of Council:

- (i) In the absence of the Chairman at the meeting of Council, members shall elect one of its members to be the Chairman of the meeting.
- (ii) *Quorum*: The quorum for a meeting of the council shall be 8.

### **11.02 POWERS OF THE COUNCIL**

Subject to the Law and Statutes, the Council shall in addition to all other powers vested in it have the following powers:

- (i) on the recommendation of the Senate, to authorize the establishment of academic posts in the University and similarly recommend, or suspend or abolish any academic posts created by these statutes or otherwise; provided that any such abolition shall not affect the protection afforded by the section on the removal of officers and members;
- (ii) to authorize the establishment of non-academic posts in the University and to suspend or abolish any non-academic posts created by these statutes or otherwise; provided that any such abolition shall not affect the protection afforded by the section on the removal of officers and members;
- (iii) to determine the conditions of appointment and service of all staff;
- (iv) to appoint from time to time such officers whether paid or honorary and such other employees of the University as may be deemed necessary for the efficient functioning of the University (not being officers to be appointed by Senate under section 19 of these statutes);
- (v) to delegate to the Vice-Chancellor the power to appoint any officer or employee not being an officer or class of officers to be appointed by Senate as aforesaid;
- (vi) to review the work of the University and subject to the powers of the Senate, to take such steps as it thinks proper for the purpose of advancing of the University;
- (vii) govern, manage and regulate The finances, property and business affairs of the University and for that purpose to appoint bankers and any other office or agents whom it may deem expedient

to appoint, provided that before determining the question of finance which directly affects the academic policy of the University, the council shall take, into consideration that recommendation of the Senate;

- (viii) to invest any money belonging to or held by the University in such stocks, bonds, shares or securities as the Council shall from time to time think fit, here in Nigeria or abroad, provided that in the case of moneys held by the University as trustees, the powers conferred by this paragraph shall be exercised in accordance with the provision of the law relating to investment by the Board of Regents;
- (ix) to sell, buy, exchange, lease and accept leases of any real or personal property on behalf of the University;
- (x) to provide, manage and maintain the buildings, premises, furniture and equipment and other means needed for carrying on the work of the University;
- (xi) on the recommendation of the Senate, to authorize the establishment of Faculties, Institutes, Schools, Departments, Boards and like bodies;
- (xii) to make provision for the welfare of students;
- (xiii) to borrow money on behalf of the University and for that purpose if the Council thinks fit, to mortgage or charge all or any of the property of the University whether real or personal and to give such other security as the Council shall think fit;
- (xiv) to enter into, carry out, vary and cancel contracts on behalf of the University;
- (xv) to give guarantees to building societies whether in pursuance of continuing arrangements or not;
- (xvi) to make such provision as the council may from time to time consider fit for the welfare of all persons in the employment of the University, including the maintenance of a contributory pension scheme;
- (xvii) to institute and award, on the recommendation of the Senate, Fellowships, Scholarships, Studentships, Bursaries, Prizes and other aids for study and research;
- (xviii) to accept any property, legacy, endowment, bequest or gift for purposes of education or research or otherwise in furtherance of the work and welfare of the University, and to invest any funds representing the same in accordance with the provision of the charter and these statutes;
- (xix) to select in consultation with the Senate a seal and Mace for the University and to have sole custody and use of the seal;
- (xx) to make Statutes, Rules and Regulations;
- (xxi) to accept, reject or refer any recommendations made by the Senate, provided that no such recommendation may be rejected or referred back without reasons and is given an opportunity to comment thereon to the council;
- (xxii) generally to exercise all such powers as are or may be conferred on the Council by the Charter and these Statutes, including the power to make regulations in the exercise of all the powers expressly set out in this statute and of all other powers vested in the Council and to carry the Charter, the Statutes and the Rules and Regulations into effect;
- (xxiii) to submit an Annual Report embodying the activities and Finances of the University to the Board of Regents.
- (xxiv) render statutory returns to relevant authorities as they affect the University.

#### **JOINT MEETING OF BOARD OF REGENTS AND COUNCIL**

The Board of Regents and Council shall meet twice a year at the instance of the chairman of the Board of Regents, to assess progress made.

Two Joint Committees of Board of Regents and Council should be set up for a smoother running and systematic development of the University, viz:

- (i) Development Committee to discuss and approve all physical structures and the status of all academic programmes including the introduction of new ones.
- (ii) Estimates Committee to see to the generation of income and other resources, allocation of funds, award of contracts and general supervision of expenditures.

## **12. THE SENATE**

The Senate shall consist of the following:

- (i) The Vice-Chancellor as Chairman.
- (ii) The Deputy Vice-Chancellor.
- (iii) The Deans including the Dean of Student Affairs.
- (iv) All Professors for the time being. (But with the increase in the number of Professors, not more than three Professors elected from each College to a maximum of 20 Professors).
- (v) HOD's of Academic Departments.
- (vi) Two members of congregation, elected by Congregation.
- (vii) Two nominated non-university members of appropriate qualifications appointed by the Vice-Chancellor in consultation with the Senate.
- (viii) The University Librarian.
- (ix) Bursar, Director of Works & Director of Academic Planning (in attendance).
- (x) The Registrar shall serve as secretary
- (xi) *Quorum*: Shall be two-thirds of the membership.

### **12.01 POWERS OF THE SENATE**

The Senate shall, subject to the Charter and these Statutes, in addition to all other powers vested in it, have the following powers:

1. To regulate and control, after considering the views of the Colleges concerned, all teaching, courses of study and research and the conditions qualifying for admission into the various titles, degrees and other distinctions of the University.
2. To promote research and to require reports on such research.
3. To elect members of the senate to be members of the council as provided in section 16 of these statutes.
4. Without prejudice to section 17(5)(6) to recommend appointment of all academic staff in accordance with the rules approved by the council and to notify the council about the appointments.
5. To make a report to the council on the appointment of Deans of Colleges. Such appointment shall be based on the election of the College Board concerned subject to the right of the Senate to refer back any nomination.
6. To recommend to the Council the establishment, suspension or abolition of academic posts in the university.
7. To make recommendations to the Council about Rules and Regulations concerning academic matters.
8. To prescribe the conditions under which persons may be admitted to the University as students to decline admission without assigning any reason, and to delegate the powers to officers or a committee as the Senate may deem fit. To regulate all University examinations and to appoint examiners provided that there shall be at least one external and independent examiner appointed by the senate for the final examinations prescribed for any degree.
9. To award degrees and other academic distinctions to persons who shall have pursued a University or have otherwise satisfied the conditions laid down in the Regulations; and on what the Senate shall deem good cause, to deprive persons of any degrees or other academic

distinctions awarded by the University, and to revoke any diplomas or certificates granted by the University.

10. To award Diplomas, Licences or Certificates to persons who have completed a course of study approved by the Senate.
11. To recommend to the Council, subject to the procedure prescribed by Statute, the names or persons for the award of Honorary Degrees, or other University distinctions.
12. To accept such examinations and periods of study at such examinations and periods of study in the University as the Senate may determine.
13. To determine what formalities shall attach to the conferment of degrees and other distinctions.
14. To regulate the use of academic dress.
15. To be responsible for the general administration of the University Library
16. To recommend to the Council the institution and acceptance of Fellowships, Scholarships, Studentships, Bursaries, Prizes and other such aids to study and research.
17. To promote and regulate linkages and the extra-mural work of the University.
18. To make recommendations to the Council on any matter of interest to the University.
19. To regulate and superintend the discipline of the students of the University, and after a report from the Vice-Chancellor and subject to section 25 of these statutes, to suspend any student from class or classes, to exclude any student from any part of the University or its precinct, to expel any student from the University, or take such action as the Senate thinks proper and to determine in what manner disciplinary powers shall be exercised. The Senate may delegate to the Vice-Chancellor the power to suspend or exclude any student until the next meeting of the Senate when the Vice-Chancellor shall report to the Senate.
20. To take such steps as it thinks proper for supervising organizations of students.
21. To regulate and supervise the living conditions and social, cultural and leisure facilities of the students of the University and to make recommendations to the Council regarding the provision of residences and such other facilities for students.
22. Except as otherwise provided, to appoint representatives of the University to other bodies.
23. To recommend to the Council the establishment of Colleges, Institutes, Schools, Departments, Sections, Boards and such other bodies as the Senate may from time to time consider advantageous for the work of the University.
24. Generally to exercise all such powers as are or may be conferred on the Senate by the Charter and these Statutes and to make Regulations in the exercise of the powers herein before expressly set out in the section of these statutes and of all other powers of the Senate.
25. To regulate the conduct of examinations and judge all cases of examination irregularities.

### **13. CONVOCATION**

1. The Convocation shall consist of the following persons, namely:
  - (i) Officers of the University: The Chancellor, the Pro-Chancellor, the Vice-Chancellor, the Deputy Vice-Chancellor, the Registrar, the University Librarian, the Bursar.
  - (ii) All full time Academic staff of the University.
  - (iii) The members of the Council.
  - (iv) All honorary graduates of the University
  - (v) The Graduate of the University who apply for registration of their names in the prescribed manner and pay the prescribed fees.
  - (vi) Such other members of the University or other persons as may on the recommendation of the Senate be invited by the Council.
  - (vii) The *quorum* for convocation shall be one-third of the whole number nearest to one-third of the total in number of members of the convocation whichever is less.
2. Regulations shall provide for the establishment and maintenance of a register for the purpose of paragraph (iv) above and subject to the provision of the next succeeding paragraph, such

regulation may provide for the payment from time to time of further fees by persons whose names are on the register and also for the removal from the register of the name of any person who fails to pay such fees.

3. The person responsible for maintaining the register, shall, without demanding the payment of any fees, ensure that the names of all persons who are for the time being members of Convocation by virtue of sub-paragraphs (i), (ii), (iii), (iv), (v), of this section are entered and retained in the register.
4. The register shall, unless the contrary is proved, be sufficient evidence that any person named therein is, and that any person not named therein is not, a member of convocation, but for the purpose of ascertaining whether a particular person was such a member on a particular date, any entries in and deletion from the register made on or after that date shall be disregarded.
5. The Chancellor shall when he is present, preside at all meetings of convocation, and in his absence, the Vice-Chancellor shall preside.

#### **14. CONGREGATION**

1. The Congregation shall consist of:
  - (i) The Vice-Chancellor and Deputy Vice-Chancellor(s)
  - (ii) All full time academic staff of the University
  - (iii) The Registrar, Bursar and University Librarian
  - (iv) All graduate staff of the University
2. The Vice-Chancellor shall be the Chairman of all meetings of Congregation when he is present, and in his absence, the Deputy Vice-Chancellor and in his absence, such other member the Congregation may appoint for that meeting shall be the Chairman at the meeting.
3. Subject to the provisions of the charter and these statutes, congregation may regulate its own proceedings.
4. The quorum of the congregation shall be one third (or the whole number nearest to one third) of the total number of members of the congregation or fifty, whichever is less.
5. Congregation shall have powers to discuss any matter relating to the general welfare of the University.

#### **15. COLLEGE BOARDS**

1. Each College shall establish a College Board, whose membership shall consist of all the full time members of the Academic staff of the College and such other persons as may be approved by the Senate on the recommendation of the College. The powers and duties of the College Boards shall be as approved by the Senate on the recommendation of the College concerned. These powers shall include the right to discuss any matters relating to the work of the College and any matter referred to it by any other body within the University and to convey its views and to make recommendation thereon.
2. The Senate shall prescribe which subjects of study, departments and other bodies shall belong to each college. A subject of study may, as the Senate so directs, belong to more than one College.
3. Subject to the Charter and these Statutes, each College shall be responsible for the organization and conduct of courses and the promotion of research within the subjects taught in the College or other responsibilities allotted to it by the Senate.

#### **16. THE STUDENT UNION**

Student Union, its powers and functions and all other matters which may be thought proper so to regulate its activity shall be as prescribed in the Rules and Regulations governing Studentship in the

University.

## **ACADEMIC STRUCTURE OF THE UNIVERSITY**

The Senate chaired by the Vice-Chancellor, decides on all academic matters, regulations and superintends students' discipline.

The College Academic Board chaired by the Provost (College of Health Science) and Deans of the other respective Colleges and Schools consist of all full time teaching members of staff with the College Officer, as the secretary, processes academic and student matters at the College/School level.

### **17. APPOINTMENT OF EXAMINERS**

- (a) For all University examinations, there shall be Internal Examiners for each level of examinations.
- (b) **Internal Examiners**
  - (i) There shall normally be no fewer than two Internal Examiners for each level of Examination.
  - (ii) There shall be one Chief Examiner to be appointed by Senate for each department who shall be the Head of Department. He shall be responsible for collection, collation and harmonization of all the segments of course examinations.
- (c) **External Examiners**
  - (i) External Examiners shall be appointed to each department annually by Senate on the recommendation of the College Boards.
  - (ii) An External Examiner shall be a distinguished scholar in his field of competence and shall not have been a teacher in or full time member of the University during two academic years immediately preceding the date of his appointment.
  - (iii) An External Examiner may not be re-appointed for more than 3 consecutive years.

### **18. COMPOSITION OF DEPARTMENTAL BOARD OF EXAMINERS**

This shall consist of all members of academic staff of the department during the session under the chairmanship of the Head of Department. For 400 level examination, 2<sup>nd</sup> MB and subsequent professional examinations, the department board of examiners shall consist of internal examiners as well as the external examiners in the department.

### **19. COMPOSITION OF THE COLLEGE BOARD OF EXAMINERS**

The Board of Examiners shall consist of:

- (i) The Dean of the College as Chairman
- (ii) Members of the College Board
- (iii) External Examiner(s) when 400 level or professional examinations are under review.

### **20. DUTIES OF THE UNIVERSITY EXAMINERS**

- (a) **The Internal Examiner shall:**
  - (i) set and mark the examination papers;
  - (ii) normally attend the first ten minutes of the examination that he has set;
  - (iii) conduct practical examinations, practical test or oral examinations;
  - (iv) collect the answer scripts from the registry within 4 hours after the completion of the examinations;
  - (v) participate in the determination of examination results through the appropriate Board of



Examiners.

**(b) The External Examiner shall:**

- (i) moderate the relevant examination papers and certify them as having been moderated by him;
- (ii) moderate the examinations as conducted in the subject area for which he is appointed examiner;
- (iii) conduct oral examinations and where possible conduct or take part in practical examinations and practical teaching tests;
- (iv) participate in the determination of degree results and certify the pass list in all 400 level examinations examined by him;
- (v) submit a confidential report on the general nature and outcome of the examination to the Vice-Chancellor.

**21. DUTIES OF DEPARTMENTAL BOARD OF EXAMINERS**

- (i) approve question papers submitted to Heads of Departments by internal examiners and in the case of 400 level examinations draft questions as moderated by external examiners;
- (ii) prepare pass and failure list and forward them to College Board of Examiners;
- (iii) make recommendations about the award of Aegrotat Degree to the College Board;
- (iv) carry out other activities as may be prescribed by the College Board.

**22. DUTIES OF THE COLLEGE**

The Board shall:

- (i) arrange for the printing and safe keeping of examination papers; compile and publish a time table for all College examinations at least four weeks to the commencement of the examinations;
- (ii) publish names of invigilator for the College;
- (iii) prepare pass, referral and failure list and submit to senate for approval;
- (iv) inform Senate of any observation as requested for approval;
- (v) arrange for publication of examination result provided that where it is necessary to publish provisional results which are subject to Senate approval, this should be clearly stated;
- (vi) consider complaints about examination results from students, provided such complaints are received within one month of the publication of results by the Registrar.

**23. EXAMINATIONS**

The Senate shall:

- (i) consider and ratify examination regulations;
- (ii) approve appointment of external examiners;
- (iii) consider and ratify result lists of all University examinations.

**24.** Marked scripts and mark sheets shall be kept securely in each College for four years after an examination and may thereafter be destroyed. No person or organization outside of the College except an External Examiner may have access to any marked script.

**25. NOTIFICATION OF EXAMINATION RESULTS**

After Senate has approved the results of examinations, the candidates shall be notified of the results by whatever method that shall be prescribed from time to time by the University.

**26. DUTIES OF THE REGISTRAR**

The Registrar shall:

- (i) compile and publish, after matriculation, a list of registered students arranged serially by matriculation number and by course for which they register. Such lists shall also be sent to the Colleges;
- (ii) determine the eligibility of candidates for all examinations, a consequence of payment of all relevant fees;
- (iii) compile and publish a draft time table for all University examinations at least not later than two weeks before the commencement of the examination;
- (iv) compile and publish examination results as soon as possible after their ratification by Senate.

## **COLLEGE OF ARTS AND SOCIAL SCIENCES**

### **DEPARTMENT OF ECONOMICS AND DEVELOPMENT STUDIES COLLEGE OF ARTS AND SOCIAL SCIENCES**

#### **HISTORY, PHILOSOPHY, MISSION AND OBJECTIVES OF THE DEGREE PROGRAMME HISTORY OF THE PROGRAMME:**

The department of Economics and Development Studies was one of departments created in 1999 at the inception of Igbinedion University Okada.

The curriculum for the department was prepared through the combined efforts of eminent professors in Economics engaged as consultants and pioneer staff of the department.

Since 1999 the curriculum has been implemented to achieve the goal of graduating sound Economists with Bachelor of Science degree in Economics and Development Studies in line with the philosophy and objectives of establishing the Department.

### **PHILOSOPHY AND MISSION:**

The philosophy and mission statement underlying the Economics and Development studies programme of Igbinedion University Okada is to produce graduates equipped with critical skills and abilities to: abstract using simplified models that identify the essence of a problem; analyse and reason both deductively and inductively; Marshall evidence, assimilate structure and analyse qualitative and quantitative data; communicate concisely the results to a wide audience, including those with no training in Economics; think critically about the limits of one's analysis in a broader socio – economic context; and draw economic policy inferences and to recognize the potential constraints in their implementation.

### **OBJECTIVES OF THE DEGREE PROGRAMME**

- ❖ Provide training in the principles of economics and their application appropriate to the type of degree concerned: single, joint and combined studies;
- ❖ Stimulate students intellectually through the study of economics and to lead them to appreciate its application to a range of problems and its relevance in a variety of contexts;
- ❖ Provide a firm foundation of knowledge about the workings of an economy and to develop the relevant skills for the constructive use of that knowledge in a range of settings;
- ❖ Develop in students the ability to apply the analytical tools, knowledge and skills acquired to solution of societies' economic problems,
- ❖ Equip students with appropriate tools of analyses to tackle issues and problems of economic policies;
- ❖ Develop in students, through the study of economics, a range of transferable skills that will be of value in employment and self – employment;
- ❖ Provide students with analytical skills and the ability to develop simplified frameworks for studying the real world;
- ❖ Provide students with the knowledge and skill base, from which they can proceed to further studies in Economics, related areas or in interdisciplinary areas that involve Economics; and
- ❖ Generate in students an appreciation of the economic dimensions of wider social and political issues.

### **UNDERGRADUATE CURRICULUM:**

Specific Objectives: A major aim of the department is to offer a sound educational preparation in Economics and Development Studies to all students enrolled in the department and gives them a firm foundation for effective participation in the society of man in general and Nigeria in particular as Economists, Bankers, Financiers, Administrators, Academics, Management Executives and allied professionals. To this end the department offers academic programme leading to the award of Bachelor of Science Degree in Economics and Development Studies.

### **ADMISSION REQUIREMENTS:**

The admission of students into the four year B.Sc degree in Economics and Development Studies is conditioned on a student attaining a minimum qualification of five credit passes at GCE/SSCE/NECO examination and must University Matriculation Examination and further pass the screening test conducted by Igbinedion University, Okada.

For direct entry admission into the second year of the degree programme, such students shall have passed in at least two subjects at the advanced level in GCE in Economics, Accounting, or Business Administration and additional subsidiary subjects; or obtained at least lower credit in NCE Mathematics and Economics or National Diploma in Business Administration/Management or Accounting or Banking and Finance plus five credit passes at the GCE/SSCE.

### **MATRICULATION AND REGISTRATION**

At matriculation, all new students swear to the matriculation oath and are formally admitted into the university. A student shall be deemed to have registered for the programme of study if within the prescribed period at the beginning of the session he has completed listing and authenticating the relevant courses to be taught for the semesters of the academic session or year in the department and other allied departments where necessary using the prescribed forms.

At registration, student must first seek the advice of their head of department or academic advisers regarding the choice of courses for the programme of study in order to avoid changes after registration.

### **CONTINUOUS ASSESSMENT:**

Continuous assessment is regarded as part of the course work and examination but marks scored through continuous assessment shall not exceed 30% of the full marks for the course. It consists of classroom quiz, take home assignment, seminar, term paper and tests. Attendance at all lectures for the courses registered is compulsory and marks shall be awarded for attendance and forms part of the score of continuous assessment.

### **GRADUATION REQUIREMENT**

A minimum of 154 credits are required in the four-year degree programme, and 128 credits in the three-year degree programme. This works out as at least 76 courses (including General Studies Courses) for the four years and 63 courses for 3 years sessions. Students enrolled in the department are required to select 100 and 200 level courses from the department and other departments in the college and allied Colleges in the University.

The 300 and 400 level courses are taken entirely within the department along with submission of a supervised research project.

To earn a degree, all registered compulsory courses must be taken and passed. In addition, the required elective courses chosen will be learnt and passed by the students at the end of each semester. The candidates will be credited with the results grade point times the number of units assigned to the course which they have passed.

Subsequently, the total number of units taken with the grade points earned in the courses shall be recorded for the purpose of computing the cumulative grade point average CGPA required for determining the class of degree achieved by the student at the end of the programme.

### **CALCULATION OF GPA AND CGPA**

Results for courses are reported in figure score and letter grades ranging from A to 5 and weighted 6 to 0 respectively. Each course has a credit unit ranging from 1 to 4. Each course result has a total quality point which is the product of the grade point and the credit unit.

For instance, if a student earns a ‘A’ in a particular 2 credits unit course, his/her total quality points will  $5 \times 2 = 10$ .

A student who registers for 6 courses in a semester each of which has a credit unit of 2 will have a total registered credit units of  $6 \times 2 = 12$ .

The Grade Point Average – GPA – is the sum of the individual total quality points divided by the total credits for the semester or session.

The Cumulative Grade Point Average CGPA is the sum of the total quality points of courses earned for all the years of study divided by the grand total of credit units registered for all the years of study to date.

### **CLASS OF DEGREE**

CGPA	CLASS OF DEGREE
4.50 – 5.00	First Class Honours
3.50 – 4.49	2 <sup>nd</sup> Class Honour Upper Division
2.40 – 3.49	2 <sup>nd</sup> Class Honours Lower Division
1.50 – 2.39	3 <sup>rd</sup> Class Honours
1.00 – 1.49	Pass
Below 1	Fail

### **DEPARTMENTAL BOARD OF STUDIES**

Composition

Head of Department (Chairman)

All academic staff of the Department

Secretary – Departmental Secretary

### **Terms of Reference**

1. Handle all departmental issues such as time-tabling; co-ordination of activities of the department; evaluation of departmental tests and examination; review of course contents and syllabus; student discipline;
2. To report to the College Board on all matters pertaining to the University with respect to staff and students.

### **LIST OF COURSES AND COURSE DESCRIPTION**

The list of courses in the curriculum of the department and the course description are presented in the subsequent section.

### **LIST OF COURSES IN LINE WITH NUC-BMAS**

#### **100 LEVEL – FIRST SEMESTER**

CODE	COURSE TITLE	CREDIT UNIT	TOTAL
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	<b><u>COMPULSORY COURSES</u></b>		
Eco 111	Principles of Economics I	2	
Eco 112	Introductory Mathematics for Economies	2	
Eco 113	Introduction to Economic History	2	
Acc 111	Introduction to Accounting	2	
GST 111	Communication in English II	2	
GST 112	Logic Philosophy & Human Existence	2	
GST 113	Nigerian Peoples and Culture	2	14
	PLUS 3 ELECTIVE COURSES (6 Units) FROM ANY OF THE FOLLOWING:		
Bus 111	Introduction to Business	2	
Pol 111	Introduction to Political Science	2	
GRP 111	Introduction to Geography	2	
Soc 111	Introduction to Sociology	2	6
	1 <sup>st</sup> Semc <b>100 LEVEL SECOND SEMESTER</b>		<b>20</b>
<b>CODE</b>	<b>COURSE TITLE</b>	<b>CREDIT UNIT</b>	<b>TOTAL</b>
	<b><u>COMPULSORY COURSES</u></b>		
Eco 121	Principles of Economics II	2	
Eco 122	Introductory Mathematics for Economies	2	
Acc 121	Introduction to Accounting	2	
GST 121	Use of Library, Study Skill & ICT	2	
GST 122	Communication in English II	2	
GST 123	Introduction to French	2	12
	PLUS 3 ELECTIVE COURSES (6 Units) FROM ANY OF THE FOLLOWING:		
Bus 121	Introduction to Business	2	
Pol. 122	Introduction to Political Sciences	2	
GRP 121	Introduction to Geography	2	
Soc 121	Introduction to Sociology	2	6
	2 <sup>nd</sup> Semester Sub Total Credit Units		18
	<b>SESSIONAL TOTAL CREDIT UNITS</b>		<b>38</b>

### **200 LEVEL – FIRST SEMESTER**

<b>CODE</b>	<b>COURSE TITLE</b>	<b>CREDIT UNIT</b>	<b>TOTAL</b>
	<b>COMPULSORY COURSES</b>		
Eco 211	Microeconomics	2	
Eco 212	Macroeconomics	2	
Eco 213	History and Structure of Nigerian Economy	2	
Eco 214	Statistics for Economics	2	
Eco 215	Mathematics for Economics	2	
Eco 216	Principles of Finance	2	14
GST 211	History and Philosophy of Science		
	PLUS 3 ELECTIVE COURSES (6 Units) FROM ANY OF THE FOLLOWING:		
Acc 211	Financial Accounting	2	
Eco 217	Theories of Human Resources	2	
Eco 218	Labour Economics	2	

Eco 219	Urban and Regional Economics	2	
Bus 211	Principles of Management	2	6
	1 <sup>st</sup> Semester Sub Total Credit Units		<b>20</b>

### **200 SECOND – FIRST SEMESTER**

<b>CODE</b>	<b>COURSE TITLE</b>	<b>CREDIT UNIT</b>	<b>TOTAL</b>
	<b><u>COMPULSORY COURSES</u></b>		
Eco 221	Microeconomics	2	
Eco 222	Macroeconomics	2	
Eco 223	History and Structure of Nigerian Economy	2	
Eco 224	Statistics for Economics	2	
Eco 225	Mathematics for Economics	2	
Eco 226	Principles of Finance	2	
GST 221	Peace Studies and Conflict Resolution	2	
CSP 221	Community Services Programme	2	16
	<b>PLUS 3 ELECTIVE COURSES (6UNITS) FROM ANY OF THE FOLLOWING:</b>		
Acc 221	Financial Accounting	2	
Eco 227	Theories of Human Resources	2	
Eco 228	Labour Economics	2	
Eco 229	Urban and Regional Economics	2	
Bus 221	Principles of Management	2	6
	2 <sup>nd</sup> Semester Sub Total Credit Units		22
	<b>SESSIONAL TOTAL CREDIT UNITS</b>		<b>42</b>

### **300 LEVEL- FIRST SEMESTER**

<b>CODE</b>	<b>COURSE TITLE</b>	<b>CREDIT UNIT</b>	<b>TOTAL</b>
	<b><u>COMPULSORY COURSES</u></b>		
Eco 311	Intermediate Microeconomics	2	
Eco 312	Intermediate Macroeconomics	2	
Eco 313	History of Economic Thought	2	
Eco 314	Introductory Econometric	2	
Eco 315	Project Evaluation	2	
Eco 316	Economics of Development	2	
Eco 317	International Economics	2	
Eco 318	Public Sector Economics	2	
EPS 311	Entrepreneurial Studies	2	18
	<b>PLUS 2 ELECTIVE COURSES (4UNITS) FROM ANY OF THE FOLLOWING:</b>		
Eco 319	Operation Research	2	
Eco 320	Monetary Economics	2	
Eco 329	Financial Institution	2	
Acc.311	Management Accounting	2	
Eco 330	Mathematical Economics	2	
Eco 331	Political Economics	2	4
	1 <sup>st</sup> Semester Sub Total Credit Units		<b>22</b>

### **300 LEVEL SECOND SEMESTER**

CODE	COURSE TITLE	CREDIT UNIT	TOTAL
	<b><u>COMPULSORY COURSES</u></b>		
Eco 321	Intermediate Microeconomics	2	
Eco 322	Intermediate Macroeconomics	2	
Eco 323	History of Economic Thought	2	
Eco 324	Introductory Econometrics	2	
Eco 325	Research Method	2	
Eco 326	Economics of Development	2	
Eco 327	International Economics	2	
Eco 328	Public Sector Economics	2	<b>16</b>
	PLUS 1 ELECTIVE COURSE (2UNITS) NOT ALREADY TAKEN IN FIRST SEMESTER FROM ANY OF THE FOLLOWING:		
	Operation Research		
Eco 319	Monetary Economics	2	
Eco 320	Financial Institution	2	
Eco 329	Management Accounting	2	
Acc 311	Mathematics Economics	2	
Eco 330	Political Economics	2	
Eco 331	Second Semester Sub Total Credit Units	2	2
	SESSIONAL TOTAL CREDIT UNITS		18
			<b>40</b>

#### **400 LEVEL FIRST SEMESTER**

CODE	COURSE TITLE	CREDIT UNIT	TOTAL
	<b><u>COMPULSORY COURSES</u></b>		
Eco 411	Advanced Micro Economics	2	
Eco 412	Advanced Macro Economics	2	
Eco 413	Comparative Economic Systems	2	
Eco 414	Problems And Policies Of Development	2	
Eco 415	Taxation And Fiscal Policy	2	
Eco 416	Applied Statistics	2	
Eco 418	Research Project/Original Essays	3	15
	PLUS TWO ELECTIVE COURSES (4 UNITS) FROM ANY OF THE FOLLOWING		
Eco 417	Petroleum Economics	2	
Eco 419	Econometrics	2	
Eco 420	Advanced Mathematical Economics	2	
Eco 427	Industrial Relations And Personnel Management	2	
Eco 429	International Banking And Finance	2	4
	1 <sup>st</sup> Semester Sub Total Credit Units		19

#### **400 LEVEL SECOND SEMESTER**

CODE	COURSE TITLE	CREDIT UNIT	TOTAL
	<b><u>COMPULSORY COURSES</u></b>		
Eco 421	Advanced Micro Economics	2	
Eco 422	Advanced Macro Economics	2	
Eco 423	Economics Planning	2	



Eco 424	Economics of Production	2	13	
Eco 425	Taxation and Fiscal Policy	2		
Eco 428	Research Project/Original Essay	3		
	PLUS 1 ELECTIVE COURSE (2 UNITS)			
	NOT ALREADY TAKEN IN 1 <sup>ST</sup> SEMESTER FROM ANY OF THE FOLLOWING:			
Eco 417	Petroleum Economics	2		
Eco 419	Econometrics	2		
Eco 420	Advanced Mathematical Economics	2		
Eco 427	Industrial Relations and Personnel Management	2		
Eco 429	International Banking and Finance	2		
	2 <sup>nd</sup> Semester subtotal Credit Units			2
	SESSIONAL TOTAL CREDIT UNITS			15
				34

### SUMMARY OF TOTAL UNITS FOR THE 4 YEARS

#### NUC- BMAS

#### CURRENT CURRICULUM

	1 <sup>st</sup> Semester	2 <sup>nd</sup> Semester	Total	1 <sup>st</sup> Semester	2 <sup>nd</sup> Semester	Total (New)
100 Level	19 Units	18 Units	37	20 Units	18 Units	38 Units
200 Level	18Units	18 Units	36	20 Units	22 Units	42 Units
300 Level	18 Units	18 Units	36	22 Units	18 Units	40 Units
400 Level	18 Units	17 Units	34	19 Units	15 Units	34 Units
Total	73 Units	70 Units	143	81 Units	73 Units	154 Units

#### COMMENT:

To graduate, a student must now have to complete and pass all courses with total credit units of 154 units for the four years degree programme in Economics and Development Studies above the minimum of 145 units prescribed in the NUC – BMAS document. While for the three years direct entry to 200 level programme total units to graduate for the new curriculum is 128 units.

The actual work load or absolute total number of courses carried by students for the four-year degree programme is 76 courses. This is parri passu with the direct entry to 200 level three-year degree programme with work load of 63 courses accordingly.

#### COURSE DESCRIPTION

##### 100 LEVEL (FIRST SEMESTER)

##### CORE/COMPULSORY COURSES

##### ECO 111: PRINCIPLES OF ECONOMICS 1 (MICRO) 2Credits

This course is an introduction to Microeconomic Theory. Topics covered included basic concept of scarcity, choice, opportunity cost, scale of preference, the methodology of Economics, Market Mechanism. Including demand, supply and price determination; Theories of consumers behaviour, theory of production, theory of the firm, cost of production, pricing and output under perfect competition, monopoly, monopolistic competition and oligopoly etc.

##### ECO 112: INTRODUCTION TO QUANTITATIVE METHODS 2 Credits

The aim of this course is to introduce students at an elementary level to some of the mathematical techniques necessary for the analysis of economics. Topic includes elementary algebra such as real number system, indices, factorizing, logarithms, L.C.M and H.C.F. Polynomials, nominal etc. equations and inequalities, sets, functions, simultaneous equations; series and progression; permutation and combination; growth mathematics, logarithms; time rate of change, elementary trigonometry.

**ECO 113: INTRODUCTION TO ECONOMIC HISTORY 2 Credits**

This course helps to acquaint student with the history of human struggle. The course traces men’s economic experiences from the period of the Paleolithic and Neolithic ages, the river valleys, the Greek/Roman economics civilization, etc, to the modern day.

**ELECTIVES**

**ACC 111: INTRODUCTION TO ACCOUNTING (2 Credits)**

See course description under accounting Department

**BUS 111: INTRODUCTION TO BUSINESS 1 (2 Credits)**

See course description under Business Administration Department

Two electives from any other Department in the College - (2 Credits)

Minimum Total Credits 20

Beside GST

**SECOND SEMESTER**

**ECO 121: PRINCIPLES OF ECONOMICS II (MACRO) 2 credits**

This course is basically an introductory course on the Macro-economics aspect of economic theory. Topics covered include the subject matter of economics and basic economic problems; the methodology of economic science and the general principles of resource employment; money and banking; employment and unemployment; public finance including government budgets; international trade; balance of payments and economic growth and development.

**ECO 122: INTRODUCTION TO QUANTITATIVE METHOD II 2 Credits**

This is continuation of ECO 112 and it focuses on general statistical techniques. Topics covered include: origin and development of statistics, scope and limitation of statistics, frequency distribution, measures of central tendency and dispersion, skewness and kurtosis (including moments) probability theory, random variable and their probability distributions, mathematical expectations, price indices.

**ELECTIVES**

**ACC 121: INTRODUCTION TO ACCOUNTING II – 2 CREDITS**

See Course description under accounting Department

**BUS 121: INTRODUCTION TO BUSINESS II: 2 CREDITS**

See course description under Business Administration Department

Two electives from any other Department in the College - (2 credits)

Minimum Total Credits 18

Beside GST

**200 LEVEL**

**FIRST SEMESTER**

**ECO 211: MICROECONOMICS THEORY 2 Credits**

The course builds on the foundation students were exposed to in ECO111. Topics covered include: Theory of consumer behaviour; utility approach, Indifference curve approach, Topics in consumer demand; market structures, output and pricing under various market structures – perfect competition,

monopoly, monopolistic competition, oligopoly. Theory of distribution under perfect competition. Input pricing and employment under imperfect competition.

**ECO 213: PERSPECTIVES OF NIGERIAN ECONOMY 2 Credits**

This primary objective of this course is to acquaint the students with the various stages in the evolution of Nigerian economy. It examines Nigerian economy before and after Independence. Topics covered include agriculture, industrialization, trade, transportation, national income, etc.

**ECO 214: STATISTICS FOR ECONOMICS 2Credits**

The topics covered in this course include; the normal, binomial and poisson distribution. Estimation theory, tests of statistical hypothesis including t, f and Chi-square test, analysis of least square method. Correlation and regression analysis, Elementary sampling theory and design of experiments, Nonparametric methods, Introduction to the Central Limit Theory (CLT) and the law of large numbers.

**ECO 215: MATHEMATICS FOR ECONOMICS 1 2 Credits**

This course exposes students to basic calculus necessary for analyzing and understanding many aspects of economic theory. Topics covered included the following” number system, exponents and roots, equations, simultaneous and quadratic equations, logarithms, functions of one variable, free optimization (Maxima and Minima) functions of several variables partial differentiation, integral calculus. All topics are to include relevant economic application.

**ECO 218: LABOUR ECONOMICS**

The course helps to acquaint the student with principles of economics in labour matters and to introduce the student to issues in industrial relations. Topics covered include: demand and supply of labour. Theories of labour movement, theories of collective bargaining, industrial democracy etc.

**ELECTIVES**

**ACC 211: FINANCIAL ACCOUNTING 1 – 2credits**  
See course description under Accounting Department

**ECO 216: PRINCIPLE OF FINANCE – 2 credits**  
See course description under Banking and Finance Department

**BUS 211 PRINCIPLE OF MANAGEMENT 1 2-Credits**  
See Course description under Business Administration Department  
Total Credits 20

**SECOND SEMESTER**

**ECO 222: MACROECONOMIC THEORY**

This course builds on the foundation students were exposed to in ECO 121. It is primarily concerned with the study of relationships between broad economic aggregates. Topics include National income (accounting and determination) aggregates saving and consumer’s expenditure, investment, employment, money supply, price level, balance of payment. The course attempts to explain the determinants of the magnitude of these aggregates and their rates of change-overtime.

**ECO 224: STATISTICS FOR ECONOMIC II**

Students are further introduced to the basic concept of probability theory, probability distribution and inferential statistics. Topics include computation of expectation, the normal distribution, student's t and chi-square and f distribution. Topics in inferential statistics include estimations and their properties, confidence interval and hypothesis testing, plus elementary regression.

### **ECO 225 MATHEMATICS FOR ECONOMICS II**

This course is an extension of ECO 213. Topics include: calculus with emphasis given to functions of several variables, specific topic include total differentiation, for optimization of function of several variables and constrained optimization –method of substitution and Lagrange multipliers. The courses expose students to liner algebra-vectors direction, and magnitude of growth and matrices.

### **ELECTIVES**

ACC 221	FINANCIAL ACCOUNTING (2credits) Course description is provided under Department of Accounting
ECO 226	PRINCIPLE OF FINANCE (2 Credits) Course description is provided under Department of Banking and Finance
BUS 221	Principles Management II (2Credits) Course description is provided under Department of Business Administration
ECO 228	LABOUR ECONOMICS (2Credits)
TOTAL CREDIT - 22	

### **300 LEVEL: FIRST SEMESTER**

#### **ECO 311: MICRO-ECONOMIC THEORY**

This course builds on the knowledge gained in ECO 211 for first semester. The focus her is on the use of quantitative methods in analyzing advanced micro-economic topics such as theory of demand, the theory of production, cost theory, price theory, managerial theories of the firm, the behaviour theory of the firm, the notion of surplus values and profits, general equilibrium theory and welfare economics with particular reference to Nigerian.

#### **ECO 320: MONETARY THEORY AND POLICY**

This course helps to acquaint the students with the various theories of money and monetary policy instruments used in controlling or influencing the level of Demand, supply and the management of money in circulation in a domestic economy. Topics include; the role of money, the barter system and their effects. The demand and supply of money, techniques and instruments of monetary policies and their effectiveness.

#### **ECO 314: INTRODUCTION TO ECONOMETRICS 1**

This is an introductory course on the techniques of regression analysis. Accordingly, it starts with the simple linear regression model, along with its estimation using the ordinary least squares, properties of the estimators (BLUE) including the Gauss- Markow theorem, significance test.

#### **ECO 316 DEVELOPMENT ECONOMICS 1**

This course exposes the student to the theory of economic growth and development. Determinants of economic growth and development are clearly covered. Theories and empirical studies on development experience both in developed and developing countries are considered.

#### **ECO 315: PROJECT EVALUATION**

This course exposes the student to the tools of project appraisal and the difficulties faced within project evaluation. Topics covered include: this costing of project, investment criteria (PV and IRR) measure of commercial profitability, the social cost of investment, assessment of projects, desirability and success.

**ECO 318: PUBLIC SECTOR ECONOMICS**

This course focuses on effects of government expenditure and taxation. Topics covered include public vs. private sector, function of government, rationale for government intervention in economic activities, government budget, the theory of public goods, Pareto optimality, externalities, the principles of maximum social gain/advantage, theory of social choice, partial and general equilibrium of private and public goods.

**ECO 319: OPERATIONS RESEARCH**

The objective of this course is to introduce the student to the principles, methods and uses of mathematical programming with particular emphasis in the formation and solution of linear programming problem. Topics include linear programming, the dual problem, sensitivity analysis, shadow pricing, integer programming. The transportation problem, network analysis, critical path analysis and decision trees.

**SECOND SEMESTER****ECO 322: MACRO-ECONOMIC THEORY**

This course focuses on the quantitative aspect of advanced macro-economic topics such as savings, consumption and investment, national income models, the theory of money, classical and Keynesian system Macro-economic policy models. The theory of price level, internal and external balance and economic growth theory.

**ECO 323: HISTORY OF ECONOMIC THOUGHT**

This course exposes the students to the development of economic ideas. The systematic unfolding of economic ideas by different theorists in various epochs is evaluated. Topics include the evolution of societies and production relation. The founders of economic thought like Plato, Aristotle, commercial capitalism and genesis of classical schools, the mercantilism, physiocratic schools, the rise of socialist thought, monetary, mathematical, Keynesian, welfare and modern theories of growth and development economics are examined.

**ECO 324: INTRODUCTION TO ECONOMETRICS II**

This is logical extension of the first semester course on regression analysis. As such, it introduces the concept of simultaneous equation and their estimation. Essentially, this course examines the possible solutions to problems arising from the breakdown of the ordinary least squares assumptions. To this end, it covers topics like multi-co-linearity, heteroscedasticity, autocorrelation and measurement of specification error. It also examines the use of dummy variable and time-lags as independent variables.

**ECO 326: DEVELOPMENT ECONOMICS II**

This course builds on the foundation laid in ECO 314, but focuses on African Economics. Emphasis is placed on African Economic Institution, investment problems policies and strategies related to the economic development. Other specific issues covered include agriculture, industry, population, trade, income distribution etc in sub-saharan African.

**ECO 325: RESEARCH METHODS**

This essentially, is an introductory approach to economic research. Topics to be covered include: the scientific method as a basis for economic analysis, the formulation and testing of hypothesis and

economic models, interpretation and presentation of empirical results, including their appraisal as well as comparison of different economic research methods.

**ECO 327: INTRODUCTION TO INTERNATIONAL ECONOMICS**

This course provides an introductory background to the major theories of trade and international finance for the next session. Topics covered include: the classical and modern theories of trade, theory of tariffs and trade restriction, balance of payments, international institutions in trade and finance such as the IBRD IMF, OPEC IFC, etc. It also examines the basis of the New International Economic Order and its bearing on the Nigerian Economy.

**ECO 329: FINANCIAL INSTITUTIONS**

The course is aimed at exposing the students to financial institutions with particular reference to Nigeria. Topics covered include functions and organization of Commercial Bank, Merchant Banks, Universal Banks, Developing Banks, Central bank, other financial intermediaries, international financial institution such as IMF, ADB, IBRD, WORLD BANK etc.

**400 LEVEL: FIRST SEMESTER**

**ECO 411: ADVANCED MICROECONOMICS**

This course places emphasis on the application of standard theories to practical problems. Topics include: supply and Demand Analysis, preference, consumption, equilibrium and exchange the firm and industry, factor market, distribution and Inter-temporal Analysis, factor market equilibrium, and income distribution.

**ECO 412/422: ADVANCED MACRO ECONOMICS  
ADVANCED MACROECONOMICS THEORY**

The course builds on the foundation laid in year three. It deals with the study of the determinants of the level of growth. Topics covered include: Keynesian and classical models; income determination in closed and open economies; money, interest and prices; growth theory and optimal and economic policies under alternative exchange rate regimes.

**ECO 413: COMPARATIVE ECONOMICS SYSTEM**

This course evaluates the workings of different economic systems. Selected basic theoretical and conceptual issues comparison criteria, basic economic institution, centralization versus decentralization, and ideologies are examined. The basic economic models, capitalist market versus non-capitalist market, planned versus command economics are treated in-depth to embody the institutional arrangements in the contrast of the USA, UK, Japan, Netherlands, India and Nigeria. Finally, the economies of Russia, China, Yugoslavia, Hungary and Cuba are treated following a brief discussion of Marxian economics such that doctrinal issues in the development of the discipline particularly methodologies are treated in the context the contemporary economics systems and Nigeria.

**ECO 416: APPLIED STATISTICS**

The scheme of work involves a detailed treatment of some of the major topics earlier covered in the previous statistical courses. Topics to be treated include Time series analysis, Analysis of variance (ANOVA) and analysis of co-variance (NOCOVA), further index numbers, the place of probability in statistical analysis, multiple regression, design of experiment and sample surveys, and population theories, amongst others.

**ECO 417: PETROLEUM ECONOMICS**

This course is an introductory one meant to survey the major types of energy resources available, including petroleum, synthetic fuel, etc. Topics covered include; oil in international economic

relations, the New World Economic Order, New-colonialism, the multi-national oil companies, the structure and characteristics of the oil sector; others include the various types of energy sources as well as their respective place in the economic development of Nigeria.

**ECO 419: APPLIED ECONOMETRICS**

This course continues the previous session’s work on regression analysis. It examines the topics as simultaneous equation, single equation methods of estimation, indirect least squares, instrumental variable method, two stage least squares, full information maximum likelihood, as well as three stage least squares amongst others.

**ECO 418: RESEARCH PROJECT FIRST/SECOND SEMESTER**

**SECOND SEMESTER**

**ECO 421: ADVANCED MACROECONOMICS THEORY**

The course builds on the foundation laid in year three. It deals with the study of the determinants of the level of growth. Topics covered include: Keynesian and classical models; income determination in closed and open economies; money, interest and prices; growth theory and optimal and economic policies under alternative exchange rate regimes.

**ECO 423: ECONOMIC PLANNING**

The course focuses on theories of economic planning; attention is given to techniques and models of economic planning and their problems. Topics include: Input-Output Techniques, Social Accounting Matrix, General Equilibrium Models and Computable General Equilibrium Models etc.

**ECO 415 & ECO425: TAXATION AND FISCAL POLICY**

This course build on the foundation student were exposed to in public sector economics. It is primarily concerned with the study of fiscal policies of governments and the role of Central Bank in their formulation and implication. How to use fiscal policy and taxation to achieve macroeconomic objective of price stability, growth, full employment and balance of payment equilibrium are examined. Other topics include: types of taxes, benefits of taxes, efficiency of taxes, incidence of taxes, theories of tax shifting, public expenditure and the management of public debt. Fiscal federalism.

**ECO 429: INTERNATIONAL BANKING AND FINANCE**

This course provides a sort of intermediate treatment of the principles of international finance. It covers such topics as the documents of international finance, international payments, foreign exchange market, balance of payment and its adjustment mechanisms, transfer movement, capital movements, international reserves, the international monetary system, Euro-dollar and the Euro-currency markets.

***DEPARTMENT OF ECONOMICS AND DEVELOPMENT STUDIES***

***SENIOR STAFF LIST***

<b><i>S/N</i></b>	<b><i>NAMES AND QUALIFICATIONS</i></b>	<b><i>POSITION</i></b>	<b><i>SPECIALIZATION</i></b>
1.	Odejimi Deborah Omotsefe <i>B.Sc, M.Sc &amp; PhD</i>	Snr. Lecturer/HOD	Applied Statistics and Finance
2.	Mercy Ada Anyiwe <i>B.Sc, M.Sc and PhD</i>	Visiting Professor	Statistics and Macroeconomics

3.	Emenuga Chidozie <i>B.Sc, M.Sc and PhD</i>	Visiting Professor	Econometrics and Development Economics
4.	Jerome Afeikhena <i>B.Sc, M.Sc and PhD</i>	Visiting Professor	International Trade and Development Economics.
5.	Ngozi Okonjo-Iweala <i>B.Sc, M.Sc and PhD</i>	Visiting Professor	Finance and Development Economics
6.	Ogbeifun M. Ikpomwonsa <i>B.Sc, M.Sc, PhD (in view)</i>	Lecturer I	Economic Development and Comparative economics
7.	Agbonkhese Abraham Oni B.Sc, M.Sc and PhD	Lecturer II	Econometrics and Microeconomics
8.	Adekola A. Adetunji <i>B.Sc &amp; M.Sc, MBA, PhD(in view)</i>	Lecturer II	Agric. Economics and Macroeconomics
9.	Ozor, P. Lilian <i>B.Sc and M.Sc and PhD(in view)</i>	Graduate Assistant	Statistics/Tutorials
10.	Odejimi Melody Omotsefe <i>B.Sc, M.Sc and PhD(in View)</i>	Assistant Lecturer	Quantitative Techniques and Development Economics
11.	Isikuemen Hillary Akome B.Sc, M.Sc and PhD(in view)	Assistant Lecturer	Maths for Economists and Macroeconomics

## **DEPARTMENT OF ENGLISH**

### **SENIOR STAFF LIST**

1. B.C. Onochie  
B.A. (Ibadan), Ph.D. (Ibadan/Leeds)      Associate Professor
2. V.O. Okokor



B.A., M.A. (Ibadan)

Assistant Lecturer

3. J.O Okesipe

B.A. (Ife), M.A. (Ibadan)

Assistant Lecturer

**DEGREE PROGRAMME IN ENGLISH**  
*(Based on Benchmark Minimum Academic Standards)*  
*Effective from 2010/2011 session.*

**DEGREE IN VIEW: B.A. (Honours) ENGLISH.**

**AIMS**

- i) To produce graduates who possess an informed literary and aesthetic sensibility and intellectual tools to appreciate any literary stimulus and event.
- ii) To equip students with adequate knowledge of major landmarks in Literature in English in all genres and periods.
- iii) To produce skilful and eloquent users of English for literary and artistic creativity.
- iv) To impart a humanistic perspective to students by acquainting them with literature as an expression of lofty ideas and aspirations.
- v) To train students to relate literary works and experiences to their social environment.

**ADMISSION AND GRADUATION REQUIREMENTS**

- i) 5 credit level passes in the SSCE/NECO/GCE (O/L) in relevant subjects including English Language and Literature for the four years programme.
- ii) 3 "A" level GCE passes including one in Literature and SSS level pass in English Language (three years programme).

**DURATION AND UNIT VALUES OF THE COURSES**

The full degree programme is to last four years. Candidates need a minimum of 120 credit units to qualify for award of degree. The courses may be rearranged semester wise within the same level/year provided the integrity of the whole programme is maintained.

**EXAMINATIONS AND CONTINUOUS ASSESSMENT**

Examinations are conducted at the end of each semester. Examination questions are set by lecturers in charge of each course but such questions are vetted by the departmental external examiner. Each lecturer assesses candidates' scripts based on prepared rubric (marking scheme) already vetted by the Departmental Board. Examination scores constitute 75% of the total grade in each course.

**CONTINUOUS ASSESSMENT**

In addition to the general examinations, the department equally implements a strict routine of continuous assessment grading system. The continuous assessment is administered by course lecturers and takes place during the course of the semester. 25% of the total grade for each course is based on candidates' performance in the continuous assessment test.

**GRADUATION REQUIREMENTS**

To qualify for the award of a Bachelor of Arts, English, a candidate shall:

- (i) Have been duly admitted for the degree programme

- (ii) Have been matriculated into the University
- (iii) Have paid all required fee and debts
- (iv) Have passed all compulsory courses and relevant degree programmes
- (v) Have accumulated the minimum number of Credit units for the award of Bachelor of Arts, English.

## **CALCULATION OF GPA and CGPA**

**Grade Point (G.P.)** is determined from the actual raw score in a given course. G.P. ranges from 0 to 5 covering scores of 0% to 100%.

### **Grade Point Average (G.P.A)**

This is the average performance of the candidate for a semester expressed in grade points earned in the course. It is the Grade Point (G.P) attained in each course by the credit units assigned that course and then dividing the sum by the total credits taken for the semester.

### **Cumulative Grade Point Average (CGPA)**

This is the up-to-date average of mean of the Grade Point (GP) earned by a student at any point in the programme i.e. the student's overall performance at the given time. It is derived by multiplying the Grade Point by the respective credit units and then dividing the sum by the total of credit units for all the courses registered by the student.

## **CLASS OF DEGREE**

The class of degree is determined by the overall C.G.P.A of each candidate as at the time of the completion of all the courses required by the department for the award of Bachelor of Arts degree.

<b>CGPA</b>	<b>CLASS OF DEGREE</b>
4.5 and above	First Class Honours
3.5 and 4.49	Second Class, Upper Degree
2.40- 3.49	Second Class, Lower Division
1.50 -2.39	Third Class
0-1.49	Fail

## **LEARNING OUTCOME**

The tradition of liberal education is based on a concern with the whole man or woman, such that the acquisition of learning skills goes with a concomitant emphasis on character. Because of its concern with the complexities of human motivation and action, Literature has an in-built tendency to impart moral and spiritual lessons which make graduates of Literature so much more sensitive to, and empathic with, the plight of others, while developing a critical attitude to society. The problems of individuals and of society with which students of Literature empathise are often imaginatively or creatively projected in works of art (prose fiction, poetry or drama).

## **COMPETENCE AND SKILLS**

- At the end of the course, graduates of Literature should be seen to have achieved greater competence and sophistication in all branches of Literature, in critical and creative expression, as well as a better understanding of Literature's relevance to society. Literature being an elaborate instance of resources of language in all its rich complexity, students of Literature, at the end of the under-graduate programme, should have developed more sophisticated skills in writing as well as in speech, together with a greater insight into human nature, a more mature understanding of human relationships and a greater competence in giving creative expression to them.

- Generically, Literature is a text-centred discipline. But at the end of the programme, students of literature should have been brought into contact with our local cultures, so that they can tap the vast repertoire of oral cultural practices for which our people are known, for creative and entrepreneurial purposes.

## **BREAKDOWN OF COURSES**

### **100 LEVEL**

#### **1<sup>ST</sup> SEMESTER**

<b>COURSES</b>	<b>CREDITS</b>
LIT 111 Introduction to Literary Studies	2
LIT 112 Introduction to Fiction in English	2
LIT 113 Introduction to Poetry in English	2
ENG 114 Practical English Grammar	2
GST 111 Communication in English I	2
GST 112 Logic, Philosophy and Human Existence	2
GST 113 Nigerian Peoples and Culture	2
First Elective from French/Theatre Arts	2
Second Elective from French/Theatre Arts	2
<b>Total</b>	<b>18</b>

#### **2<sup>ND</sup> SEMESTER**

<b>COURSES</b>	<b>CREDITS</b>
LIT 121 Origins of Nigerian Literature in English	2
LIT 122 Introduction to Nigerian Literature in English I	2
LIT 123 Introduction to Drama and Theatre in English	2
ENG 124 Spoken English	3
GST 121 Use of Library, Study Skills and ICT	2
GST 122 Communication in English II	2
GST 123 Communication in French	2
First Elective from French/Theatre Arts	2
Second Elective From French/Theatre Arts	2
<b>Total</b>	<b>19</b>

### **200 LEVEL**

#### **1<sup>ST</sup> SEMESTER**

<b>COURSES</b>	<b>CREDITS</b>
LIT 211 Survey of Epochs in Literature in English	3
LIT 212 Introduction to English Poetry	3
LIT 213 The English Novel from the 18 <sup>th</sup> Century to the Romantics	3
LIT 214 History of Theatre: Aeschylus to Shakespeare	3
GST 211 History and Philosophy of Science	2
ENG 215 Advanced English Composition I	3
One Elective from related discipline	3
EPS 211 Entrepreneurial Studies	2
<b>Total</b>	<b>22</b>

**2<sup>ND</sup> SEMESTER**

<b>COURSES</b>	<b>CREDITS</b>
LIT 221 African Oral Literature in Translation	3
LIT 222 Literature, Popular Culture and the mass Media	3
LIT 223 The English Novel from the Victorians to the present	3
LIT 224 English Drama from Shakespeare to the present	3
ENG 225 Advanced English Composition II	3
GST 221 Peace Studies and Conflict Resolution	2
LIT 226 Modern Comedy- Moliere to Soyinka	3
One Elective from related discipline	3
<b>Total</b>	<b>23</b>

**300 LEVEL****1<sup>ST</sup> SEMESTER**

<b>COURSES</b>	<b>CREDITS</b>
LIT 311 Nigerian Oral Literature in English Translation I	3
LIT 312 African Written Fiction	3
LIT 313 African Written Poetry	3
ENG 314 The English Language in Nigeria	3
CMP 311 Introduction to Computers	3
EPS 311 Entrepreneurial Studies	2
One Elective from related discipline	3
<b>Total</b>	<b>20</b>

**2<sup>ND</sup> SEMESTER**

<b>COURSES</b>	<b>CREDITS</b>
LIT 321 Nigeria Oral Literature in English Translation II	3
LIT 322 African Written Drama	3
LIT 323 English Poetry: Beginnings to Metaphysicals	3
ENG 324 Discourse Analysis	3
CMP 321 Application of Computers to Arts	3
One Elective from related discipline	3
<b>Total</b>	<b>18</b>

**400 LEVEL****1<sup>ST</sup> SEMESTER**

<b>COURSES</b>	<b>CREDITS</b>
LIT 411 Literary Theory and Criticism	3
LIT 412 Commonwealth Literature	3
LIT 413 African-American and Caribbean Literature	3
LIT 414 English Poetry: 18 <sup>th</sup> century to present	3
LIT 415 Research Methods	3
LIT 416 Special Author (Shakespeare)	3
<b>Total</b>	<b>18</b>

## 2<sup>ND</sup> SEMESTER

### COURSES

		CREDITS
LIT 421	Stylistics	3
LIT 422	Literature of Travel and Adventure	3
LIT 423	Folklore in African Literature	3
LIT 424	Workshop in Creative Writing	3
LIT 499	Project	6
	<b>Total</b>	<b>18</b>

### COURSE DESCRIPTION

#### **LIT 111 Introduction to Literary Studies**

This is a general course to introduce students to fundamental elements of literary art, its aesthetic principles, genres, approaches to critical evaluation and appreciation and the interface of literature and allied arts.

#### **LIT 112 Introduction to Fiction in English**

This course will introduce students to the major forms of prose fiction, their characteristic features, and the major techniques employed by fiction writers.

#### **LIT 113 Introduction to Poetry in English**

An introductory course on the nature, form, and characteristics of poetry. Through selected poems, the student is guided to acquire the tools and techniques of literary analysis.

#### **ENG 114 Practical English Grammar**

This course practically explores the salient features of English grammatical structure. Particular attention will be paid to basic sentence phrase structures, clause types and inter-sentential relations, among others. The aim is to improve the students' proficiency in English by indirectly highlighting their areas of difficulty and helping to sharpen their sense of grammatical correctness vis-à-vis communicative effectiveness.

#### **LIT 121 Origins of Nigerian Literature in English**

This course explores the origins of Nigerian literature in English. It focuses, in particular, on its oral background in poetry, prose and fiction. Early authors such as Amos Tutuola will be examined.

#### **LIT122 Introduction to Nigerian Literature in English I**

This course introduces students to the major literary genres of Nigerian literature and the socio-political conditions that have influenced their development. Attention will also be drawn to the changes in scope and the preoccupations of the Nigerian artists involved over the years.

#### **LIT 123 Introduction to Drama and Theatre in English**

An introductory course on the nature, form and characteristics of drama and theatre. Students are guided to acquire the tools and techniques of drama analysis through selected plays.

#### **ENG 124 Spoken English**

A single semester course, this will concentrate on classroom and language laboratory exercises on conversational English, using relevant phonological materials [e.g. tapes, records, video films, etc] to enhance the students' spoken English.

**LIT 211      Survey of Epochs in Literature in English**

This course is to introduce students to trends and periods in world literature written in English with emphasis on themes, socio-cultural background and use of language.

**LIT 212      Introduction to English Poetry**

A study of English poetry from the Romantics to the 20<sup>th</sup> century. Works of representative authors will be chosen to illustrate the various themes and stylistic nuances.

**LIT 213      The English Novel from the 18<sup>th</sup> Century to the Romantics**

A study of the development of the English novel with focus on major authors and the aesthetic features of their works. Focus will be on Defoe, Richardson, Fielding, the Gothicists, Jane Austen and Mary Shelley.

**LIT 214      History of Theatre: Aeschylus to Shakespeare**

A study of representative dramatic texts of dramatists from Aeschylus but excluding Shakespeare.

**ENG 215      Advanced English Composition I**

This course deals with more specialized composition writing than the essay, e.g Reports, Long Essays, Minutes of Meetings, Various types of letters, Invitations, Public Announcements, Speech Writing, writing feature articles, writing for magazines, etc. Attention will be paid to correct language use and other technical matters connected with these kinds of writing.

**LIT 221:      African Oral Literature in Translation**

This course will examine the major genres and traditions of African Oral Literature in English translation.

**LIT 222      Literature, Popular Culture and the mass Media**

The course will deal with the interface of literature and the institutions of popular folk culture, festival events, radio, television, newspapers (magazines, music, video, film, computers and the electronic media).

**LIT 223      The English Novel from the Victorians to the present**

A study of the development of the English novel with focus on major authors and the aesthetic features of their works, from Dickens to contemporary authors.

**LIT 224      English Drama from Shakespeare to the present**

In this course, representative samples of the drama of Shakespeare and other major dramatists up to the modern period will be studied.

**ENG 225      Advanced English Composition II**

This course extends the discussions in ENG 215.

**LIT 226      Modern Comedy: Moliere to Soyinka**

A selection of comedy texts from Moliere to Soyinka.

**LIT 311 Nigerian Oral Literature in English Translation I**

This course will build on the general introduction in LIT 121 and examine the major genres and traditions of Nigerian Oral literatures in English translation.

**LIT 312 African Written Fiction**

A study of the novels by African (and expatriate) authors dealing with African themes, life and experience. The course will cover the major regions of the continent, the representative novelists of each region, and their works.

**LIT 313 African Written Poetry**

A study of the origin and development of written poetry in various parts of Africa. The pioneer poets will be studied with a view to showing how their approach to poetry differs from that of the younger generation of African poets. Emphasis will be given to the work of the major poets in East, West and South Africa.

**ENG 314 The English Language in Nigeria**

The course is designed to study the history of English in Nigeria, the consequent emergence of virile local varieties and changes leading to the evolution of a Nigerian standard. Also to study the language in relation to distinctive properties of some Nigerian Languages and how these may affect performance in standard English

**LIT 321 Nigerian Oral Literatures in English Translation II: Field Work Project**

This is a practical course involving field work research, data collection, translation, classification and analysis of samples of any genre/tradition of oral literary expression.

**LIT 322 African Written Drama**

This course is a study of the plays by African (and expatriate) authors dealing with African themes, life and experiences. The course will cover the major regions of the continent, the representative dramatists of each region, and their works.

**LIT 323 English Poetry: Beginnings to Metaphysicals**

A study of medieval, Elizabethan and metaphysical poetry. Emphasis will be on Chaucer, Wyatt, Shakespeare's sonnets and the metaphysicals including Donne, Herbert, Marvell.

**ENG 324 Discourse Analysis**

Introduction to the principles and practice of discourse analysis. Emphasis to be on practical analysis study and description of relevant textual materials such as advertisements, obituaries, cartoons, compliments, greetings, etc.

**LIT 411 Literary Theory and Criticism**

The course deals with the theory of Literature in general; theories of poetry, drama and prose fiction. It also focuses attention on the lecture and approaches to literary criticism by examining the history of English criticism with emphasis on major themes and general critical principles. Attempt will be made to relate the readings to problems in the criticism of African Literature

**LIT 412: Commonwealth Literature**

This course will concentrate on a study of the major themes and literary trends in the following areas of the Commonwealth: Australia, Canada, India, New Zealand and the West Indies. Attempt will be made to determine the issues common to writers in the Commonwealth. The course will be

thematically organized and will examine, among other things, the problem of language in creative writing in the Commonwealth.

**LIT 413 African-American and Caribbean Literature**

The course will present a comprehensive survey of the literature produced by writers of the Black diaspora in North America (USA and Canada) and the English-speaking Caribbean. Lecturers will focus on the literary response to the history, socio-economic and political movements during the last three hundred years and in more recent trends in Afro-American and Caribbean literature.

**LIT 414 English Poetry: 18<sup>th</sup> Century to Present**

This course is a study of the poetry of the Augustan period with emphasis on the development of the heroic couplet and the Social and Political events that generated the poems. A study of the Romantics and Victorians as well as the Moderns terminates the period.

**LIT 415 Research Methods**

A prerequisite for the project (LIT 424), the course introduces students to methods and tools of research.

**LIT 416 Special Author (Shakespeare)**

A study of Shakespearean drama and poetry, noting Shakespearean criticism over the centuries and emphasizing contemporary critical approaches; a clustering of Shakespeare's plays into histories, tragedies, comedies, problem plays and last plays will guide the selection of plays to be studied.

**LIT 421 Stylistics**

This course begins with an examination of the concepts of style and stylistics. It analyses several aspects of English usage in literary texts (prose, drama and poetry) with such texts forming the basis of the descriptive characteristics (graphological, phonological, syntactic, morphological and lexical semantic) as they manifest in these texts. The distinctive features of the language of literature as they manifest in these texts are then evaluated.

**LIT 422 Literature of Travel and Adventure**

The course aims at exploring the literary features of works dealing with travel, adventure, space and other worlds. Authors to be studied include Daniel Fagunwa, Amos Tutuola, Cyprian Ekwensi, Jonathan Swift, Ernest Hemingway, H.G. Wells. The course will stimulate interest in the links between the literary acts, travel and tourism business.

**LIT 423 Folklore in African Literature**

This course will examine the influence of folklore and oral traditions on African literature. Students will be required to identify folklore themes, narrative genres, structures and oral fictive representation and idioms.

**LIT 424 Workshop in Creative Writing**

This is a practical application of the theories of creative writing in their various forms.

**LIT 499: Project**

This is a paper from twenty-five to forty pages, researched and written under the guidance of a supervisor. Its purpose is to give final-year students an opportunity to engage in independent research in an area in which they are especially interested.



**SUMMARY**

100 LEVEL	37	Units
200 LEVEL	45	Units
300 LEVEL	38	Units
400 LEVEL	36	Units
<b>TOTAL</b>	<b>156</b>	<b>Units</b>

**DEPARTMENT OF GEOGRAPHY AND REGIONAL PLANNING****Staff List**

<b>S/N</b>	<b>NAME</b>	<b>QUALIFICATION</b>	<b>RANK/SPECIALIZATION</b>
1.	Prof. OKAFOR, F. C.	B.Sc (UNN); M.Sc, Ph.D (Western Ontario, Canada)	Rural Planning & Dev., Agricultural Geography, Environmental Resources Management

2.	FOLORUNSO, I.	B.Sc, M.Sc. (Benin)	Urban Geography, Quantitative Techniques, Research Methods
3.	EKUASE, Innocent O.	B.Sc, M.Sc. (Benin)	Physical Geography, Geomorphology, Biogeography, Climatology
4.	IDEHEN, Friday O.	B.Sc., M.Sc. (Benin)	Population Geography, Settlement Geography
5.	OSAKPOLOR, Stephen E.	B.Sc. (Benin), M.Sc. (FUTA)	GIS and Remote Sensing, Philosophy of Geography, Surveying
6.	OLUKU, Sunny	B.Sc., M.Sc. (Abraka)	Environmental Resource Management, Quantitative Techniques, Research Methodology
7.	Dr. OJO, U. Godwin	B.A. (Benin), M.Sc., Ph.D (London)	Environmental Resource Management

## AIMS AND OBJECTIVES OF THE DEGREE PROGRAMME

The basic aim of the Department is to provide sound empirical and theoretical training that will enable students to understand, analyze and interpret the spatial patterns of human activities and natural processes operating on the earth's surface. The impact of these processes on both the human and natural environment and policy option to tackle them at national and international levels represents a core part of the curriculum.

The undergraduate courses of the Department are structured to lay a strong foundation in all the major branches of Geography and Regional planning. Students are trained also in the applied aspects of the subject to equip them for a wide range of professions that are open to Geographers and regional planners in Nigeria, including Urban and Regional Planning, Environmental Management , Climatology, Geomorphology, Rural Geography, Geographic Information System (GIS), Population Geography, Transportation Geography, Political Geography , Population Projects and challenging work in industry and government/parastatals. Training is also given to the students in the philosophy and techniques of the subject to equip them for further specialization at the post-graduate levels

## ADMISSION REQUIREMENTS

### A. UME (Four-Year Degree Programme)

Five ordinary level credit passes which must include English, Mathematic, Geography and any other two subjects at not more than two sittings.

### B. DIRECT ENTRY (Three-Year Degree Programme)

- i. NCE with at least a merit pass in Geography and any other subject. A merit pass in the NCE General English is acceptable as fulfilling the English Language requirement for direct entry only; plus credit pass at least two relevant subject at "O" Level including mathematics.
- ii. At least five credit passes in the General Certificate of Education or its equivalent of which at least two shall be at the advanced level or five Credit passes of which at least three shall be at the Advanced level provide that such are not counted at both levels of the examinations. The 'A' level subject must include Geography and any subject (s), while the 'O' level subjects must include English Language and mathematics.

## **DEGREE PROGRAMME AND REQUIREMENTS**

In order to obtain a Bachelor of Science (B. Sc. Degree in Geography and Regional planning), a student in the fourth year programme is required to complete a minimum of 170 units of courses as prescribed by the department, while those on the three-year programme are to complete a minimum of 140 units. To graduate, all compulsory and required courses in the department must be passed. This is in addition to completing and passing courses in general Studies and approved elective course from the following department: Agriculture, Business Administration, Botany, Chemistry, Computer Science, Economics, Administration, Sociology and Anthropology.

## **COURSE CREDIT AND GRADING SYSTEM**

The University operates a Course Credit System. This is a system in which subject areas are broken down into examinable units called courses. Students thus earn credits if they pass course(s).

A credit Unit itself is a specific number of hours of Student teacher contact per semester. There are specified minimum and maximum numbers of credits you are supposed to take during the semester and session.

The system itself evolved, in part from the criticism that it is not fair to teach or train a person for three or four years only to come and examine him in three or four hours in order to determine whether he know or not what he has been taught. Hence a good proportion of the marks are allocated to continuous assessment; and in some case it is not possible to pass a course without performing well in the continuous assessment. With the passage of time and as the system is practiced you will understand it better.

There is however a term used by the system with which you should get acquainted from the onset. This term is PROBATION. If at the end of the Semester or Session your Grade Point Average ( G.P.A) is less than 1.00 then you will be placed on probation. If at the end of this probation period, your G.P.A is still less than 1.00 then the Department and or the University may reluctantly but firmly send you away. Grade point ( G.P.) itself is derived from the actual raw scores in a given course obtained by a student. It ranges from 0-5, covering scores 0% to 100%. Grade Point Average (G.P.A>) is thus the average performance of a candidate for a semester expressed in grade points earned in the course taken by the candidate (See Table 1)

**Course Credit system - Is** a system in which subject areas are broken down into examinable units called course. Students thus earn credits if they pass the course(s).

**Credit Unit –** This is a specified number of hours of student Teacher contact per semester. For our purpose one credit unit is one hour of lecture or tutorial per week per semester.

In case of other forms of teaching which are equivalent to lectures or tutorials such as seminars, laboratory or fieldwork, or industrial attachment may be the equivalent to one week of industrial attachment of one hour of lecture per week per semester.

**Grade Point (G.P.) –** Is determined from the actual raw score in a given course G.P. range from 0-5 covering scores of 0% - 100% (See Table Percentage Scores Converted to G.P. in Table 1).

**Grade Point Average ( G.P.A.)** – This is an up- to date average of mean of the Grade point (G.P.) attained in each course by the credit units assigned that course and then dividing the sum by total credits taken for the semester.

**Cumulative Grade Point Average (C.G.P.A)** – this is an up-to-date average of mean of the Grade Point (G.P.) earned by a student at any point in programme of student, i.e. the student’s overall performance at the given time. It is derived by:-

i. Multiplying the Grade Point by the respective credit units:

Percentage Grade	Letter Point	Grade Point (GP)	Grade Derived by multiplying and III and divided by total credit	Average Grade Average (GPA)	Cumulative Grade Average	Class of Degree Scores (CGPA)
70 – 100	A	5			4.50 – 5.00	First Class
60 – 69	B	4			3.50 – 4.49	2 <sup>nd</sup> Class Upper
50 – 59	C	3			2.40 – 3.49	2 <sup>nd</sup> Class lower
45 – 49	D	2			1.50 – 2.39	Third Class
40 – 44	E	1			1.00 – 1.49	Pass
0. 39	F	0			0-0.99	Fail

ii. Then dividing the sum by the total number of credit units for all the courses registered by the student.

### SCORING AND GRADING SYSTEM SPECIAL NOTES

(I) **Work Load** - A full time students should register for NOT less than fifteen (15) credits per semester and maximum of twenty four (24) credits per semester.

(II) **To Qualify For The Award Of A Bachelor's Degree of Igbinedion University, Okada.**

**A candidate shall:**

- i. Have been duly admitted for the degree programme
- ii. Have been matriculated into the University
- iii. Have paid all required fee and debts
- iv. Have passed the required general studies Course
- v. Have passed all compulsory courses in the relevant degree programme
- vi. Accumulate the minimum number of Credit unit for the award of a bachelor's degree in the particular programme.

Note have stayed for longer than the prescribed period of study for Bachelor' programme.

### CURRICULUM FOR THE DEPARTMENT OF GEOGRAPHY & REGIONAL PLANNING

The approved courses offered in the department for the four-year and three-year degree programmes are listed as follows:

#### COURSE CODES AND DESCRIPTIONS

##### 100 LEVEL COURSES : FIRST SEMESTER COURSES

COURSE CODE	COURSE TITLE	UNITS/STATUS
GRP 111	Introduction to Elements of physical Geography 1	2/C
GRP 112	Elementary Land Surveying	2/C

GRP 113	Introductory Practical Geography	2/C
GRP 114	Introduction to Elements of Human Geography 1	2/C
	Total GST Courses	8/C
	One Elective from Social Science	2/C
	<b>TOTAL UNITS</b>	<b>18</b>

### SECOND SEMESTER COURSES

GRP 121	Introduction to Elements of Physical Geography 2	2/C
GRP 122	Local Field Studies- Okada Region and Environ	2/C
GRP 123	Introduction to Environmental Science	2/R
GRP 124	Introduction to Elements of Human Geography 2	2/C
	Total GST Courses	10
	One Element from Social Science	2
	<b>TOTAL UNITS</b>	<b>20</b>

### 200 LEVEL COURSES: FIRST SEMESTER COURSE

COURSE CODE	COURSE TITLE	UNITS/STATUS
GRP 211	Introduction to Geomorphology and Soil Geography 1	2/C
GRP 212	Spatial Organization of Society	3/C
GRP 213	Introduction to Geography Information System 1	2/C
GRP 214	Regional Geography of Nigeria	4/C
GRP 215	Introductory Climatology and Biogeography 1	2/C
	TOTAL GST Courses	NIL
	One Elective from Social Science	2
GRP 216	Geographical Thought Theory	2/R
	<b>TOTAL UNITS</b>	<b>17</b>

### SECOND SEMESTER COURSES

GRP 221	Introductory Geomorphology and Soil Geography 2	2/C
GRP 222	Introduction to Population Geography	3/C
GRP 223	Introduction to Geography Information System 2	2/C
GRP 224	Regional Geography of West Africa	2/C
GRP 225	Statistics for Geographers	2/C
GRP 226	Geographic Thought Theory	2/R
GRP 227	Introductory Climatology and Biogeography 2	2/C
	Total GST Courses	2
	One Elective from Social Science & one from outside	
	<b>TOTAL UNITS</b>	<b>17</b>

### 300 LEVEL COUSES: FIRST SEMESTER COURSES

GRP 311	Field Work Methods	3/C
GRP 312	Advanced Quantitative Technique 1	2/C
GRP 313	Economic Geography	2/R
GRP 314	Population Geography 1	2/R
GRP 315	Biogeography	2/R
	Two Elective Courses from:	
GRP 316	Settlement Geography	2/E
GRP 317	Hydrology	2/E

GRP 318	Geographic Information System	2/E
	<b>TOTAL UNITS</b>	<b>17</b>

**SECOND SEMESTER COURSES**

GRP 321	Practical Field Studies and Analysis	3/C
GRP 322	Advanced Quantitative Technique 2	2/C
GRP 323	Regional Geography of Africa	2/C
GRP 324	Cartographic and Research Methods	2/C
GRP 325	Geographical Methodology	2/C
GRP 326	Population Geography 2	2/C
	Two Elective Courses from:	
GRP 327	Soil Studies	2/E
GRP 329	Applied Climatology	2/E
GRP 329	Vegetation Studies	2/E
GRP 330	Land Evaluation	2/R
	<b>TOTAL UNITS</b>	<b>17</b>

**400 LEVEL COURSES: FIRST SEMESTER**

GRP 411	Systematic Geography of Nigeria 1	2/C
GRP 412	Contemporary Philosophy & Methodology in Geo. 1	2/C
GRP 413	Advanced Cartographic Methods 1	2/C
GRP 414	Research Project 1	3/C
	One Required Course from:	
GRP 415	The Developing World	2/R
GRP 416	The Developed World	2/R
GRP 417	Demography	2/R
	Two Electives from profession specializations in the two areas (natural Recourses, Urban & Regional planning)	6/E
	<b>TOTAL UNITS</b>	<b>17</b>

**SECOND SEMESTER COURSES**

GRP 421	Systematic Geography of Nigeria 2	2/C
GRP 421	Contemporary philosophy & Methodology in Geo. 2	2/C
GRP 423	Advanced Cartographic Methods 2	2/C
GRP 424	Research Project 2	3/C
	One Required Course from:	
GRP 425	The Developing World	2/R
GRP 426	The Developed World	2/R
GRP 427	Demography	2/R
	<b>TOTAL UNITS</b>	<b>17</b>

	Two Elective from professional specializations in two areas (Natural Resources, Urban & Regional Planning)	6/E
	<b>TOTAL UNITS</b>	<b>34</b>

TOTAL	Total units for the FOUR Year	first Semester	second Semester
YEAR ONE	19	17	36
YEAR TWO	18	16	34

YEAR THREE	17	17	34
YEAR FOUR	<u>17</u>	<u>17</u>	<u>34</u>
<b>TOTAL UNITS</b>	<b><u>71</u></b>	<b><u>67</u></b>	<b><u>138</u></b>

## **DETAIL COURSE DESCRIPTION**

### **100 LEVEL**

#### **GRP 111: Introduction to Elements of physical Geography 1 (2units/C).**

This course is a systematic survey of the inter-related composition and structure of the lithosphere, atmosphere and hydrosphere. The nature, distributions, evolution and significance of the various types of land forming processes/agent; tectonic/endogenetic processes.

#### **GRP112: Elementary Land Survey [2unit]**

This course is introductory to land surveying, type of plane and elementary methods. Rectangular coordinate systems, circumvention of obstacles, erecting and dropping of perpendicular lines. Field instrument, Field codes and ethics; open and closed traverse; compass survey, booking, plotting, leveling etc.

#### **GRP 113: Introductory Practical Geography [2 unite/C]**

This course covers practical aspects of map reading, location. The language of maps, marginal information, conventional signs/symbols, map scales, representation of relief features and related problems, cross-sectional drawing, map enlargement and reduction; vertical exaggeration and calculation; qualitative and quantitative drainage network analysis.

#### **GRP 114: Introduction to Elements of Human Geography 1 [2unit/C]**

This is an introductory course to Human Geography and examines the nature and scope of human geography. It examines key concept in human geography, examine domestication, animal and plant dispersal, world agricultural regions, population growth, distribution and demographic characteristics. Human evolution and evolution, patterns, distribution and function of settlement.

#### **GRP 121: Introduction to Elements of Physical Geography 2 [2units/C]**

This course complements topics covered in GRP 111. The topics to cover includes: the Earth's radiation, structure of the atmosphere, hydrosphere; Atmospheric and oceanic circulation system; cycling of matter and energy in ecosystem.

#### **GRP 122: Local field Studies-Okada region and environ [2 units/C]**

The essence of this course is to familiarize students with their local environments and to practice classroom lectures in both Human and Physical geography. Students will collect some basic data on the region for report Presentation. Students will be asked to pay towards the cost of the fieldwork.

#### **GRP 123: Introduction to Environmental Science (2units/R)**

The objective of this course is to introduce students to the current environmental issues: atmosphere, biosphere, hydrosphere and lithosphere. Topics to cover shall include environmental pollutions, natural disaster-earthquakes, floods, drought, hurricanes, etc. The topics will be given global perspectives with particular attention to Nigeria.

#### **GRP 124: Introduction to Elements of Human Geography (2units/C)**

The underlying objective of this course is to complement areas covered in GRP 114. The topics to cover include environmental resources, types and distribution: relationship between resources and tertiary activities: impact of human activities on the environment. The course shall also cover areas

like elementary theories of demographic transition: the role of movement and flows of people, goods, energy and ideas and evolution of settlements.

### **200 LEVEL COURSES**

#### **GRP 211: Introductory Geomorphology and Soil Geography 1 (2units/C)**

The course is introductory to basic concepts and analysis of Geomorphic processes; The course examines the meaning and scope of Geomorphology; structure, origin, types and characteristics of rocks and the nature and origin of continents and time in landscape development; mass and slope movement, coastal landforms, karst landform; Davisian and penckiancycle of erosion concepts and landforms classification etc.

#### **GRP 212: Spatial Organization of Society (3units/C)**

The course exposes students to some basic concepts of spatial organization: Principles of classification of geographical phenomena, growth and spatial Distribution of population. Production system-agricultural model and typology And distribution: location spacing and growth of settlements, movements over Space and transportation network; gravity model and the basis of interaction exchange of goods and services.

#### **GRP 213 Introduction to Geographic Information System 1 (2units/C)**

The course shall introduce students to the basic concepts and definition of GIS, Use of GIS in data capturing types of geographical data and data capture, remote Sensing system, imageries across the spectrum, image acquiring, image restoration and enhancement.

#### **GRP 214: Regional Geography of Nigeria (4units/R)**

This course exposes the students to the general geography of Nigeria with Emphasis on the nature of the physical environment, the history, people and Culture: system of agriculture, population, distribution and movements. The role Of water resources, forest resources and mineral resources on national development. The geography regions of Nigeria are identified and described.

#### **GRP 215: Introductory Climatology and Biogeography 1 (2units/C)**

This course examines the general circulation of the atmosphere-scales and laws of motion forms that drive the atmosphere. Major features and models of circulation, weather producing system-air masses and fronts, frontal and non- frontal depression, tropical system.Climate classifications and global system of Climate. Heating of the earth-atmosphere system, atmospheric moisture, etc

#### **GRP 216: Geographical Thought Theory 1 (2units/R)**

This course examines the History of Geography: Philosophical issues in Geography, the growth of geographic knowledge, geography in the Classical Period, the Muslim and Christian geography in the Middle Ages, the age of Exploration and the impacts of discoveries on geography.

#### **GRP 221: Introductory Geomorphology and Soil Geography (2units/C)**

The course covers structural landforms, the meaning and scope of soil geography, factors of soil formation, soil structure, types and distribution of soil, soil characteristics and flora distribution, agricultural practices and soil distribution.

#### **GRP 222: Introduction to population Geography [2unit/C]**

The course will examine sources of population data, population growth and components, population theories and population models, migration process and consequences. The structure of Nigerian



population; distribution pattern and their implication; methods of estimation and projecting population figures.

**GRP 223: Introduction to GIS 2 [2 unit/C]**

This course this complementary GRP 213 and intends to expose students to image processing and interpretations; image storage and retrieval formats, application in environmental resources management, urban planning and regional planning etc.

**GRP 224: Regional Geography of West Africa [2 units/C}**

The course is intended to expose students to the systematic study of the sub-region, the structure and components of population, population distribution and growth; natural and economic resources of growth and ECOWAS.

**GRP 225: Statistics for Geographers [2 unit/ C]**

This course introduces students to statistical methods as applied to geography. Students are introduced to the place of statistics in geography, data collection, description and presentation .The course will expose students to discrete, abstract and continues variables, data scales; measures of central tendency and variability, methods of sampling and point pattern analysis.

**GRP 226: Geographical Thought Theory 2 (2units/C)**

The focus of this course is to examine the history of development of geography in America, Britain, France, Germany and Russia and Africa. The role of the evolutionary theory in geography, Quantitative revolution in geography and Nigerian geography.

**GRP 227: Introductory Climate and Biogeography 2 (2units/C)**

This course is complementary to GRP215 and the main focus is on the dynamics of plant communities, the ecosystem idea , Properties, energy flow and the food chain, ecological efficiencies, tropics structure and pyramids, biological production etc. Man's influence on the atmosphere and vegetation are also examine.

**300 LEVEL COURSES**

**GRP 311: Fieldwork Methods 1 (3units/C)**

This course will examine types of research-historical, experimental and survey methods. Fieldwork design-aim, selection of topics and site, formulation of hypothesis, data types and scale of measurements, data collection, data complication, tabulation and frequency distribution, and methods of data analysis, field experiments-water level fluctuations, and Writing of research report.

**GRP 312: Advanced Quantitative Technique 1 (2units/C)**

The aim of this course is to expose students to matrices, binary number system, integration and differentiation, spatial analysis, the nature of raw materials, measures of central tendency, dispersion, variability, frequency distribution etc.

**GRP 313: Economic Geography [2 units/R]**

The meaning and scope of Economic Geography. Production system-hunting and gathering, agriculture fishing, forestry, industrial production system, factors of production: comparative advantage; economics of scale, economic rent, service industries-trade and transport, global trade and movements. Problems of developing world.

**GRP 314: Population Geography 1[2 units/R]**

Vital statistics, evolution and problems of population. History of census from classical era and problems associated with Census data.

Spatial distribution of population; movement and effects on the source and destination. Malthus Population model and Demographic Transition Theory.

**GRP 315: Biogeography [2 unit/R]**

Vegetation types: factor affecting flora and fauna distribution. The concept of ecosystem. The structure and functioning of terrestrial and aquatic ecosystems. Vegetation change through time: adoption, succession and climax.

**GRP: 316: Settlement Geography [2 units/E]**

Settlement and evolution of settlement in the Middle East and the spread. Population and Settlement, distribution of population in time and space. Population growth distribution in Nigeria .Models of urban structures, urban hierarchies; CPT etc and function of settlement. Urban-rural relationship and problems of urbanization.

**GPR 317: Hydrology [2 units/R]**

The will cover the scope and content of hydrology, hydrological as an important area in geographic studies.

**GRP 321: Practical Fieldwork Analysis 2 [3 units/C]**

Students are encouraged to write their research project showing the ability of the knowledge gained in GRP 311. Ability to show how they organize and present the research materials in a scientific manner will be appreciated.

**GRP 322: Advanced Quantitative Technique 2 [2units/C]**

Areas to be covered include probability theory. Permutation and combination, Regression and correlation comparison of samples-parametric and non-parametric; sampling and method of sampling.

**GRP 323: Regional Geography of Africa [2 units/C]**

The course will cover the location, size and structure of Africa, the major relief and drainage system of Africa. Colonization and settlement, and decolonization of Africa; resources and economic activities of Africa, transport systems, regional and international trade of Africa.

**GRP 324: Cartographic and research Methods [2 units/C]**

The students shall be exposed to basic draughtsman ship, conception, design and execution of map projection. Map interpretation and air photo-interpretation; computer cartography and elementary land surveying.

**GRP 325: Contemporary philosophy and methodology in geography [2 units/C]**

The focus of this course will be on the current methodology and philosophy of geographic research. Emphasis will be on the :recent paradigms shifts within geography; the scientific approach to geographic research; quantification in geography; classification in geography; theories and models in geography; system analysis in geography; humanistic geography structural explanation in geography; geography and society; careers in geography.

**GRP326: Population Geography 2 (2units/R)**

The course will cover theories and concepts of population, determinants and spatial aspects of mortality, fertility and migration. Population Composition and development population policies.

**GRP 327: Soil Studies (2units/E)**

Definition of soil physical and chemical properties of soil, soil profile Development, soil formation, soil types, global analysis of soil classification, Soil erosion and conservation measure, plant and soil relationship

**GRP 328: Applied Climatology (2units)**

Bioclimatology, agro-climatology climate construction, global circulation Of ocean current and associated climatic effects hydrological cycle climatic Classification climatic region of the world, global pressure and wind System.

**GRP 329: Vegetation Studies (2units)**

Precipitation and vegetation Studies, vegetation pattern in the world Vegetation resource and conservation, vegetation and development patterns, Vegetation type of Nigerian and agriculture resources, human activities and Micro-organism.

**GRP 330; Internship/Industrial Training**

The course covers three months attachment relevant and approved Geographical, environmental and planning organization Course assessment would be based on report from the organization, staff supervisors and Individual students report of practical experience

**400 LEVEL COURES****GRP 411: Systematic Geography of Nigerian 1 (2units)**

Location, size structure, landforms, drainage climate, soil and vegetation of Nigerian. Population size, characteristic, agricultural activities-farming Type and crop production. Vegetal resourced, water resources and mineral resources. Population size, growth and distribution: rural and urban settlement.

**GRP 412: Contemporary Philosophy and Methodology in Geography 1 (2unit/C)**

The course will focus on the current methodology and philosophy ofGeographic research. The course will also examine recent paradigm shifts within geography; quantification in geography.

**GRP 413: Advanced Cartographic Method 1 (2unit/C)**

Scope and limitation of the visual presentation of statistics, source and Manipulation of statistic for visual presentation, significance and choice of Technique, review of cartographic, graphic and diagrammatic techniques.

**GRP 414: Research project 1 (3unit/C)**

Guided original research project based on collection, processing and Analysis of data from field situation of student chosen topic.

**GRP415: The Developing World 1 (2units/R)**

Nature and characteristic of under-development in Third world Nations, poverty, income distribution and development, production System; human and nature resources and technology. Development Strategies; industrialization, education and manpower development. The Population problem, international trade and transfer of resources.

**GRP 416: The Development World 1 (2units/R)**

Differences of the developed from the developing world. Distribution Of income and standard of living. The historical evolution of the developed economies. Geographical bases economies of Western Europe, USA and USSR: performance of agriculture, manufacturing and service. International trade and implication for the world economy.

**GRP 417: Demography 1 (2units/R)**

Evolution of demographic data. Definition of terms, data sources, Population census. Population theories and population policies; errors in Population census and correction of errors, vital statistics, demographic Parameter; techniques of computing fertility and mortality, construction of life tables, population projection.

## **GRP 418 GRP 419: Electives from two in Nature Resources, Urban And Regional Planning**

### **GRP 421: Systematic Geography of Nigeria (2units/C)**

The course exposes students to the geography of Nigeria focusing on a Range of physical environment, spatial pattern of ecological zones, Population distribution and movements: and natural resources base: Agriculture production and marketing system: industrialization and Transport development, mineral, basis of region development and specific Regional development problems.

### **GRP 422: Contemporary philosophy and Methodology in Geography 2 (2units/C)**

The student will be exposed to theories and models in geography: System in geography, foundation modern geography, growths of human Geography as a spatial science,, humanistic geography, feminist Geographies, regions models and classes some location models and Structural explanation in geography

### **GRP 423: Advanced Cartographic Method 2 (2units/C)**

Scale and error factors: map design, cartography as a communication System, the use of mechanical, optical and photographic aids in geography, The logic of conceptual diagrams, including system diagram

### **GRP 424: Research project 2 (units/C)**

### **GRP 425: The Developing world 1 (2 units/R)**

Nature and characteristics of under-development in Third world Nations, poverty, income distribution and development, production Nature System: human and natural resources and technology and Development. The Strategies; industrialization, education and manpower development .The Population problem, international trade and transfer of resources.

### **GRP 426; The Developed world 1 (2units/R)**

Differences of the developed from the developing world. Distribution Of income and standard of living. The historical evolution of the Developed economics. Geography bases of economies of western Europe, USA and USSR; performance of agriculture, manufacturing And services. International trade and implication for the world economy.

### **GRP 427; Demography 1 (2units/R)**

Evolution of demographic data, definition of terms data sources, Population census. Population theories and population policies: errors in Population census and correction of errors, vital statistics, demographic Parameters: techniques of computing fertility and morality, construction of life tables, population projections. Students are encouraged on their respective research report with Emphasis placed on independent report writing.

### **GRP 425: The Developing world 2 (32units/R)**

Nature and characteristic of under-development in Third world Nation, poverty, income distribution and development, production System: human and natural resources and technology. Development

Strategies: industrialization, education and manpower development. The Population problem, international trade and transfer of resources.

**GRP 426: The Developed World 2 (2units/R)**

Difference of the developed from the developing world. Distribution Of incomes and standards of living. The historical evolution of the Developed economies. Geographical bases of economies of Western Europe, USA and USSR: performance of agriculture manufacturing and services. International trade and implications for the world economy.

**GRP 427: Demography 2(2units/R)**

Evolution of demographic data, definition of terms, data sources and Population census. Population theories and population policies: errors in Population census and correction of errors, vital statistics, demographic Parameters: techniques of computing fertility and mortality, construction of life tables, population projection.

**DEPARTMENT OF INTERNATIONAL RELATIONS & STRATEGIC STUDIES**

**STAFF LIST**

<b>Dr. Femi Olufunmilade</b> BSc, MA, Ph.D. (International Relations/Strategic Studies)	Head of Dept.
<b>Prof. Eghosa Osaghae</b> BSc, MSc., PhD (Comparative International Politics)	Professor

<b>Prof. O.B. C. Nwolise</b> BSc, MSc, Ph.D. (Defence and Conflict Studies)	Visiting Professor
<b>Dr. Nnamdi Nwaodu</b> BSc, MSC, Ph.D. (Int'l Relations & Devt. Studies)	Senior Lecturer
<b>Dr. Roosevelt Idehen</b> B.Sc., M.Sc.), PhD. (Uniben) (Int'l Relations/ Strategic Relations)	Senior Lecturer
<b>Dr. Felix S.O. Osaghae</b> B.Sc., M.Ed, M.Sc. (Int'l Relations/Comparative Politics)	Lecturer I
<b>Dr. (Mrs.) Chinyere Okeke</b> BA, M.Sc., Ph.D. (Int'l Relations/Diplomacy)	Lecturer II
<b>Mr. Emeka Agba</b> BA, M.Sc. (Int'l Relations/ Strategic Studies)	Asst. Lecturer
<b>Mr. Onyebuchi Ugwu</b> BA, MA (French)	Asst. Lecturer

### **BRIEF HISTORY OF THE DEPARTMENT**

The Department of International Relations and Strategic Studies is one of the Departments of the College of Arts and Social Sciences in Igbinedion University, Okada. Igbinedion University is the Premier Private University in Nigeria, with Certificate No. 001 issued on April 20, 1999.

The primary objective of the University is to advance knowledge, wisdom, and understanding through dedicated research, teaching and service to the community, nation and humanity. The university's vision is to become a centre of academic excellence through focused teaching and research that respond to communal and global human needs. While its mission is to be among the best and most successful Universities in the world.

The founding father of the University and its Chancellor and Visitor., Chief (Dr.) Sir Gabriel Osawaru Igbinedion was partly motivated by the need to bequeath to present and future generations of Nigerians, University Education of International Standard with regular and uninterrupted academic calendar as obtains outside Nigeria and the need to nurture a university that with time can rank among the best in the world in terms of personnel services, students' performance in learning and character, equipment an facilities: as well as academic standards.

The University is geared towards meeting the four key roles of any University worth its salt: teaching, research, learning and community service and being both a store house of social civilization and a catalytic arrowhead for moving the civilization forward and receding the frontiers of ignorance, disease, technological backwardness and man's inhumanity to man. Igbinedion University is a liberal

and secular institution with strong moral values and a guiding motto of “knowledge and Excellence”. It is committed to the production of a total being who can stand up for truth, justice and excellence.

The University admitted its batch of 111 students on October 15, 1999 for its first academic session of 1999/2000. From this small size, the student population has steadily risen to 5,000 today in the over eight (8) Colleges which serve as the engine room for high quality degree courses offered by the University which has rewarding links with industry, commerce and prestigious Universities in Nigeria, Africa and the world for the benefit of its students.

The strength of the University lies in its orientation towards practicality, productivity, self-employability, self-sustenance and self-reliant training and education for its students. The University's current Vice Chancellor is Prof. Eghosa Osaghae.

The Department of International Relations and Strategic Studies came into existence in the 2001/2002 session (September 1, 2001) with only two students (offered direct entry admission) and graduated its first batch of students in the 2003/2004 sessions. The department has remained one of the leading departments in the university providing high quality education and imparting relevant skills and competencies to students in International Relations, Diplomacy, and Strategy. In short, the department, following its students and staff's successful and historic tour of strategic national and international establishments at home and abroad prides itself today as the strategic flagship of Igbinedion University. These establishments include the Defence Headquarters ECOWAS Commissions, Nigeria Police Force Headquarters, United States Embassy, National Defence College, Chinese Embassy, Nigeria's High Commission in Ghana, University of Ghana, the Embassy of Nigeria, European Union Headquarters in Belgium, to list a few.

The history of the department revolves around certain leadership personalities who saw to its affairs. These are Mr. N. Akpan who was the pioneer Lecturer in-charge; Mr. Nwanakama who came after him as Lecturer in-charge and Professor Yesufu who oversaw the department from his Department of English. Professor A. Uba handled the department briefly from the Guidance and Counseling Unit, before Mr. J. Aghahowa came on board as Acting Head of Department. He handed over to Professor O.B.C. Nwolise who became the first substantive Head of the Department from January 15, 2008 and was succeeded in 2009 by Dr. Joseph Aihie in who handed-over the baton to the incumbent, Dr. Femi Olufunmilade in August 2011. The department got its full accreditation from the National University Commission (NUC), for the first time, under the leadership of Dr. Olufunmilade.

Since January 2008, the department commenced a process of transformation and expansion from 'International Relations' to 'International Relations and Strategic Studies'. The essence is to enable the University be part of the pioneering processing of Africa for the advancement of strategic thought (which is currently very low in the continent) for better governance and catalyzed development to make Africa relevant in 21<sup>st</sup> century world affairs. In pursuit of this, the department undergraduate courses have been expanded. Also, the department has a comprehensive postgraduate programme with academic professional components, which enables it to offer academic M.Sc., and PhD Political Science (International Relations specialization) in conjunction with a sister department - Political Science and Public Administration – since it has requisite staff germane for that.

### **3. Vision of the Department**

The vision of the Department is to be counted among the first ten outstanding departments of International Relations and Strategic Studies in the world.

### **4. Mission of the Department**

The mission of the Department is:

- a. To make the study of International relations really international and imbued with practical diplomatic and strategic calculus.
- b. To produce qualified and competent graduates who can stand their grounds anywhere in the world and serve the nation and humanity with expertise and humanity, in diplomatic, industrial, or administrative circles.
- c. To establish productive relations with strategic national and international institutions.

5. **Student Advisers**

- |      |                           |                       |
|------|---------------------------|-----------------------|
| i.   | Dr. (Mrs.) Chinyere Okeke | 100 Level             |
| ii.  | Dr. Nnamdi Nwaodu         | 200 Level             |
| iii. | Mr. Onyebuchi Ugwu        | 300 Level             |
| iv.  | Mr. Emeka Agba            | 400 Level             |
| v.   | Dr. Roosevelt Idehen      | Master's Students     |
| vi.  | Dr. F.S.O. Osaghae        | Students' Association |

**Undergraduate Degree Programme**

At the undergraduate level, the department offers a degree programme open to both UME and Direct Entry students leading to a B.Sc. in International Relations and Strategic Studies. The programme is designed to train graduates who would be well informed, equipped, and exposed to contemporary issues to apply themselves effectively to the ever-changing global environment. The programme is also aimed at producing graduates who understand, appreciate and comprehend the burning issues in International Relations and can find professional engagements and careers in diplomatic service, the security and intelligence agencies, multinational corporations, international organizations and the academia, in addition to those who will operate in private capacities.

The requirements for the award of this B.Sc. under the 4 years degree programme are:

- a. **UME:** This requires a minimum of five credits in the school certificate examination or its equivalent at not more than two sittings including English Language, Governments, Economics and two other courses. Candidates are also expected to have at least a pass in Mathematics.
- b. **Direct Entry:** Three credits in the School Certificate or its equivalent, plus two relevant subjects in the GCE "A" Level or its equivalent, Diploma in Law, International Relations or any other related courses may also be considered.

**Courses Offered**

The courses offered shall consist of the following for the 3 or 4 years programme subject to general regulations of the NUC and the University.

**LIST OF COURSES IN LINE WITH NUC-BMAS  
100 LEVEL – FIRST SEMESTER**

CODE	COURSE TITLE	CREDIT UNITS	TOTAL
<b>Compulsory Courses</b>			
IRS101	Ancestors of the Contemporary International Society	3	
IRS103	Introduction of African Politics	3	
IRS104	History of Europe I	3	
IRS113	Understanding Strategy	3	
FRE117	Introduction to Practical French I	2	
GST111	Communication in English I	2	



GST112	Logic Philosophy and Human Existence	2	
GST113	Nigerian History and Culture	2	
	<b>Required Courses</b>		
IRS107	Introduction to Political Science and International Relations	2	
BUS111	Introduction to Management I	2	
ECO111	Introduction to Economics	2	26
	<b>100 LEVEL – SECOND SEMESTER</b>		
<b>CODE</b>	<b>COURSE TITLE</b>	<b>CREDIT UNIT</b>	<b>TOTAL</b>
IRS102	Evolution of Contemporary International System	3	
IRS105	History of Europe II	3	
IRS122	Trans-Border Crimes	3	
FRE127	Introduction to Practical French II	2	
GST121	Use of Library Study, Skills and ICT	2	
GST122	Communication in English II	2	
GST123	Communication in French	2	
	<b>Required</b>		
BUS121	Introduction to Management II	2	
	<b>Elective – (Any One)</b>		
SAA126	Introduction to Psychology	2	21
GEO114	Introduction to Environment Science		
	<b>GRAND TOTAL</b>		<b>47</b>
	<b>200 LEVEL – FIRST SEMESTER</b>		
<b>CODE</b>	<b>COURSE TITLE</b>	<b>CREDIT UNIT</b>	<b>TOTAL</b>
	<b>Compulsory Courses</b>		
IRS204	Political Thought Since Hobbes	3	
IRS207	New States in World Politics	3	
IRS216	Peace Support and Internal Security	3	
IRS217	Intermediate Practical French I	2	
GST211	History and Philosophy of Science	2	
	<b>Required</b>		
IRS203	Introduction to Political Analysis	2	
IRS210	Elements of Contemporary Global Studies I	2	
IRS222	Introduction to Statistics for Social Sciences I	2	19
	<b>200 LEVEL – SECOND SEMESTER</b>		
<b>CODE</b>	<b>COURSE TITLE</b>	<b>CREDIT UNIT</b>	<b>TOTAL</b>
	<b>Compulsory Courses</b>		
IRS202	Structure of International Society	3	
IRS205	Political Thought-Plato-Machiavelli	3	
IRS206	Foundation of Political Economy	3	
IRS225	Intelligence Strategy	3	
FRE227	Intermediate Practical French II	2	
GST221	Peace Studies and Conflict Resolution	2	
	<b>Required</b>		

IRS208	Nigerian Government and Politics	2	
IRS221	Elements of Contemporary Global Studies II	2	
IRS224	Introduction to Statistics for Social Science II	2	
EPS221	Entrepreneurial Studies	2	
SAA222	Elements of Psychology and Social Psychology	2	26
	<b>Grand Total</b>		<b>45</b>
	<b>300 LEVEL – FIRST SEMESTER</b>		
<b>CODE</b>	<b>COURSE TITLE</b>	<b>CREDIT UNIT</b>	<b>TOTAL</b>
	<b>Compulsory Courses</b>		
IRS301	International Economic Relations I	3	
IRS303	International Political System	3	
IRS305	Law of Nations	3	
IRS307	International Politics in the Post Cold War Era	3	
IRS309	Field Trip-Reports	3	
IRS311	Theories and Practice of Administration	3	
IRS315	Defence Economics	3	
	<b>Required</b>		
EPS311	Entrepreneurial Studies	2	
FRE319	Advanced Practical French I	2	25
	<b>300LEVEL – SECOND SEMESTER</b>		
<b>CODE</b>	<b>COURSE TITLE</b>	<b>CREDIT UNIT</b>	<b>TOTAL</b>
	<b>Compulsory Courses</b>		
IRS302	International Economics Relations II	3	
IRS304	Diplomacy	3	
IRS306	Logic and Methods of Political Inquiry	3	
IRS308	International Politics of Africa	3	
IRS310	Theories of International Relations	3	
IRS325	Humanitarian and Refugee Studies	3	
	<b>Required</b>		
CMP300	Introduction to Computer Applications	2	
FRE329	Advanced Practical French II	2	22
	<b>Grand total</b>		<b>47</b>
	<b>400 LEVEL – FIRST SEMESTER</b>		
<b>CODE</b>	<b>COURSE TITLE</b>	<b>CREDIT UNIT</b>	<b>TOTAL</b>
	<b>COMPULSORY COURSES</b>		
IRS401	Foreign Policy Analysis	3	
IRS403	Human Rights	3	
IRS405	Foreign Policies of Great Power	3	
IRS407	Research Project	3	
IRS418	Strategic Management	3	
	<b>Electives</b>		
	<b>Any Three from the following</b>	2	
IRS409	Africa and the Middle East	2	
IRS411	International Relations in Southern Africa	2	

IRS413	Technology, Ecology and Environmental Issues in International Relation	2	
IRS415	Politics of International Economic Relations	2	
IRS417	The Middle East in World Politics	2	27
<b>400 LEVEL – SECOND SEMESTER</b>			
<b>CODE</b>	<b>COURSE TITLE</b>	<b>CREDIT UNIT</b>	<b>TOTAL</b>
	<b>Compulsory Courses</b>		
IRS402	Nigerian Foreign Policy	3	
IRS404	Contemporary Strategic Studies	3	
IRS406	International Institutions	3	
IRS420	Research Project	3	
	<b>Elective</b>		
	<b>Any three from the following</b>		
IRS408	Race and Ethnicity in International Relations	2	
IRS410	Asia in World Politics	2	
IRS412	Europe in World Politics	2	
IRS414	International Relations in N/Africa and the Maghreb	2	
IRS416	The International Politics of Mass Communication	2	18
	<b>Grand Total</b>		<b>45</b>

## DESCRIPTION OF COURSES OFFERED IN THE DEPARTMENT OF INTERNATIONAL RELATIONS AND STRATEGIC STUDIES

### 100 LEVEL

#### **IRS101: Ancestors of the Contemporary International System**

The course entails a brief survey of the fore-runners of the contemporary international system. It highlights some earlier answers to the problem of co-existence, order and peace; focuses previous examples of arrangements for organizing relations between diverse peoples from which our modern system sprang: The Chou system, the Greek City States, the Egyptian, Assyrian, Persian worlds; and Renaissance Italy etc.

#### **IRS103: Introduction to African Politics**

Entails the origins, nature and problems of African Politics; problems of colonialism, neo-colonialism and apartheid. Access to power, military rule etc, Africa's lingering dependence on the former metropolis, and Africa in International Politics.

#### **IRS104/105: History of Europe I & II**

Ideas, concepts and institutions which influenced the evolution of Europe and sustained it up to the era of the French Revolution and beyond; Feudalism, the church, cities, humanism, renaissance: reformers; the commercial and science revolutions: absolutism, enlightenment; industrial revolution: the advent of the principle of nationality and the globalization of the International system.

#### **IRS113: Understanding Strategy**

This course is to introduce the students to the meaning of strategy and trace its evolution, application and transformation from classical to contemporary times. The relevance and types of strategy (grand strategy, military strategy etc) as well as the real essence of strategic thinking in personal, group, national and world affairs shall be focused on.

#### **IRS102: Evolution of the Contemporary International System**

The evolution of the contemporary International system from 1648 up to the end of the second World War: particular emphasis on the European International System and factors which led to the globalization of that system by the end of 1945.

**IRS122: Trans Border Crime**

The course is designed to acquaint students with the knowledge of the concept and the causes of trans-border crimes, types of trans border crimes as well as the implications of trans-border-crimes for national security. The various stratagems of trans-border criminals and syndicates as well as the strategies and institutions for combating these crimes and criminals shall be covered.

**IRS107: Introduction to Political Science and International Relations**

The course introduces students to basic concepts in Political Science and International Relations: politics, power, democracy, influence, authority, sovereignty, state, nationalism, diplomacy, realism etc. The course discusses scientific study of politics, forms of government etc.

**200 LEVEL**

**IRS203: Introduction to Political Analysis**

Entails the role of concepts (democracy, nationalism, terrorism, globalization etc) as the building blocks of political analysis, introduction to social research (use of questionnaire, interview, observation, content analysis etc), difference between layman's and academic analysis, types of analysis (historical, comparative, statistical etc), and discussion of samples of journal articles, books etc as examples of political analysis.

**IRS205: Political Thought Since Hobbes**

A critical analysis of post 17<sup>th</sup> century normative political thought with emphasis on liberal democratic traditions, Marxism-Leninism and the thoughts of people like Fanon, Senghor, Nkrumah etc.

**IRS207: New State in World Politics**

The collapse of imperial rule in Asian and African countries, forms of government in the new States, their main preoccupations, their role in international order, UN, international law, international military order, international economic order, international morality; the contemporary new statehood, neutralism, nonalignment, imperialism and ne-colonialism.

**IRS216: Peace Support and International Security Operations**

The course shall focus on the concept of peace support operations, internal security operation, and natural disaster management. It shall cover UN, AU, ECOWAS and bilateral peace support operations, as well as the role of the military and police in internal security management. The institutions in these operations and the problems facing them shall be covered.

**IRS202: Structure of International Society**

The major historical, intellectual and sociological developments which have shaped relations between nations, particularly the industrial and technological revolution; the spread of nationalism, the break up of the European empires and the rise of the superpowers.

**IRS204: Political Thought: Plato-Machiavellian**

A general survey of Classical and Medieval thought up to fifteenth century with a focus on individual thinkers, pre-occupations of political thought, the language and methods of political analysis.

**IRS225: Intelligence Strategy**

The course introduces students to the concept and relevance of intelligence gathering and utilization for security maximization and national security as well as gathering intelligence for personal, group,

and organisational security. The role of the nexus between intelligence and security are examined. The role of relevant national and international organizations such as SSS (Nigeria), KGB (Russia), CIA (USA), M15 (UK) shall be covered.

**IRS210: Element of Contemporary Global Studies**

Issues of Contemporary global interest such as Globalisation, terrorism, Weapons of Mass Destruction, Environmental Degradation, HIV/AIDS, Malaria, etc.

**IRS213/224: Introduction to Statistics for Social Sciences I & II**

The nature of statistics, statistical inquires, forms and design, the role of statistics and basic concepts in statistics.

**300 LEVEL**

**IRS301/302: International Economics Relations I & II**

The economic basis of some of the actions and reactions in international politics, international trade; commercial policy; capital movement etc; role of IMF, World Bank and other monetary agencies; multinational enterprises, customs unions, and currency areas.

**IRS303: International Political System**

The emergence and organization of the modern international system, the political processes in the international community and contemporary thought on state activity, the external needs of states and goals states activity, the means of exerting pressures and the forms of political relationship between states, the dynamic-aspects, revolutionary movements, the external projection of political values and the changing distribution of power and leadership; war as a contingency in international life: mechanism for maintaining International Order.

**IRS305: Law of Nations**

An examination of the foundations of international law, the making of international law, problems of enforcement of international law, international courts, sovereignty versus international law enforcement etc.

**IRS307: International Politics in the Post Cold War Era**

The end of the Cold War and its effects on the international system, the collapse of communism and disintegration of alliance systems; democratisation in the Third World and Eastern Europe; the UN and the challenges of peace-keeping and peace-making; options and tendencies in the emerging world; Africa and the problems of marginality.

**IRS309: Field Trip-Reports**

Visits and attachment to selected international institutions, ministries, diplomatic missions and other agencies relevant to the study and practical aspects of diplomacy, and written reports at the conclusion of the visit or attachment.

**IRS311: Theories and Practice of Administration**

Evolution of administrative/organization theory from the classical through the neo-classical to the modern, relation of administration to politics and the political process; administrative behaviour and various international settings; interplay of political institutions and administrative patterns of political institutions and administrative patterns of behaviour; study of personnel administration, decision making, and bureaucratic organizations.

**IRS315: Defence Economics**

The course is meant to acquaint the students with the relationship between the military sector and the national economy, the meaning of defence economics, peace economics and opportunity cost of war, the contents of defence economics and how the concepts could be applied to the national defence sector.

**IRS304: Diplomacy**

The meaning and historical development of diplomacy; the contribution of individuals to the development of diplomacy; tasks of diplomacy and diplomatic protocol and rules of courtesy; diplomacy and intelligence; acceptance of peaceful methods; mediation, conciliation, and good offices.

**IRS306: Logic and Methods of Political Inquiry**

An examination of the boundary of political studies; the various modes of political analysis with emphasis on scientific methods; the logic and language of inquiry; the problems of political evaluation and the sources of data with emphasis on survey, questionnaire construction statistical association sealing and content analysis together with the reporting of results.

**IRS308: International Politics of Africa**

An investigation into the relationship between Africa and the Great Powers and Africa and International Organizations.

**IRS310: Theories of International Relations**

An examination of the following basic concepts and theories: power, conflict and accommodation, system's theory; politics; the theory of coalitions and alliances, and simulation.

**IRS325: Humanitarian and Refugee Studies**

The course shall cover the causes of refugee and displaced persons generation as well as the types and sources of humanitarian disasters and their management problems. International bodies involved in management of humanitarian disasters and refugees will be focused on.

**400 LEVEL**

**IRS401: Foreign Policy Analysis**

Nature of foreign policy as an activity; purposes, aims and determinants of foreign policy; internal and external pressures; decision-making in foreign policy; difficult theories and categories which may be employed. Some selected cases: USA's decision to go to war in Korea in 1950; the Cuban Missile Crisis of 1962; the British decision to join EEC (1961-1970); the French decision to withdraw from the integrated NATO Command Structure in 1966; and Israel's decision to go to war in June 1967.

**IRS403: Human Rights**

A study of the nature of human rights; an evaluation of contemporary experience and institutions in protecting and reinforcing such rights both nationally and internationally.

**IRS405: Foreign Politics of Great Power**

The course would examine the foreign policies of the major players in global politics: the USA, Russia, China, Britain, France and Japan. Their role in shaping the trend of global politics, their influence in the UN, the changing patterns of the relations between them on the one hand and Russia on the other, since the collapse of the Soviet Empire would be studied.

**IRS407/420: Research Project**

An investigation and report on a topic in International Relations and Strategic Studies selected with the approval of Head of the Department and supervised by an appointed member of staff.

**IRS418: Strategic Management**

The course covers discussions on the nature and meaning of strategic management; management of disarmament and arms control; x-ray of military strategies and strategic thoughts etc.

**IRS409: African and the Middle East**

An examination of the development of Afro-Middle East political economic, cultural relations, AU and Arab League in Afro-Arab Relations, the Arab-Israeli conflict in Afro-Arab Relations; oil, decolonization, and development issues in Afro-Middle East relations.

**IRS411: International Relations in Southern Africa**

Survey of the contemporary significance of Southern Africa within the context of great powers relations, the emergence and development of the Southern Africa regional system under the impact of the colonial powers and thereafter. The Great Powers, the importance of mineral resources and other economic interests in Southern Africa; the interplay of domestic factors; the issue of race, international conflicts, international rivalries in the external integration; Republic of South Africa in Africa: from confrontation to cooperation.

**IRS413: Technology, Ecology and Environmental Issues in International Relations.**

The role of geography and physical environment in International Relations; linkage between science/technology and world politics, international politics; international politics of population; global ecological changes; environmental pollution; land uses; famine etc; transition from international planetary politics, the challenges of disaster management in this context and response of public policy decision makers.

**IRS415: Politics of International Economic Relations**

The course examines the international economic environments with emphasis on the economies of the less developed countries; the economies of the advanced/developed countries; international economic cooperation, the issues of Third world external debt problem and its overhang with particular reference to Nigeria. The New International Economic Order, WTO, NEPAD, Liberalization of Trade and Globalization.

**IRS417: The Middle East in World Politics**

The growth of the international economy of the Middle East and its political implications; Arab economic nationalism and regionalism in the international economy; problem of political control of the contemporary international economy; economic factors i.e formulation of foreign policy.

**IRS408: Race and Ethnicity in International Relations**

Politics of race and ethnic nationalism, their impact on inter-state relations; patterns of conflict management strategies; materials to be drawn from Europe, Asia, Africa and Americas e.g role of Jewish League in the U.S.A and the concept of overseas Africans and African foreign policy.

**IRS410: Asia in World Politics**

International politics in Asia from World War II to the present, analyzing the decline of the European colonial order in India, Pakistan and South-East Asia; Japan after World War II, the Cold War alliance;

nonalignment the role of the ASEAN; Impact of the changing international order on regional politics and diplomacy.

**IRS412: Europe in World Politics**

The changing political, strategic and economic role of postwar Western Europe. European integration, Atlantic relations; policies towards Eastern Europe and the Third World - present and prospective policy choices.

**IRS414: International Relations in North Africa and the Maghreb**

International Relations between North Africa, the Maghreb and the external world; regional cooperation and its impacts on external relations; impact of religious fundamentalism on regional politics and external relations.

**IRS416: International Politics of Mass Communication**

The politics and manipulative nature of international communication focusing on the role of technology, ideology, culture, economy and international market on the international flow of news among nations; examination of the role of communication in development.

**DEPARTMENT OF MASS COMMUNICATION**

**INTRODUCTION**

The department of Mass Communication, Igbinedion University Okada was created in the year 2002 to run a degree programme in the College of Arts and Social Sciences after the successful take-off of the University in the year 1999. However, full academic activities in the department began in 2002/2003 session when the university deemed it fit to have a mass communication section whose duty is to provide prospective students a unique opportunity to earn functional degree that will enable them to respond to peculiar needs of Nigeria's growing economy. Curriculum was drawn for the programme in line with the minimum requirement set by the National University Commission (NUC)



and this curriculum has enabled the students to have expertise in myriads of mass communication courses that are supported by liberal education in General Studies with compulsory and core courses offered within the department and electives in economics, law, sociology, psychology, theatre arts, political sciences, English and computer science. The department that started with just ten students has had tremendous numbers of intakes in subsequent academic sessions and it currently has eight full-time academic staff and a moderate number of associate lecturers. Two external examiners have been engaged to moderate examination questions. The department has been training young men and women in the practice and theory of mass communication in the past few years. The lecturers have been using mentoring strategies to impart knowledge into the students and they have also adopted effective communication styles and techniques to equip the students for the task of disseminating information to the entire world.

## **VISION**

The vision for a degree programme in Mass Communication is informed by that of Igbinedion University, Okada, which is to be a centre of academic excellence through teaching, research and knowledge production in response to contextualized national and global needs.

## **MISSION**

The missions of a Bachelor degree in mass communication in the College of Arts and Social Sciences, in line with that of Igbinedion University, are to:

- (1) Pursue excellence in teaching, research and scholarship through the provision of world class facilities and opportunities for education, training and employment to all those who are able to benefit without any form of discrimination and
- (2) Enhance human advancement, prosperity and public welfare through teaching, research and outreach programmes that encourage application of knowledge, promote discipline and emphasize entrepreneurship and manage resources effectively to achieve these aims.

## **CORE VALUES**

The core values of the Mass Communication Department are also in line with that of the Igbinedion University, Okada which are:

Seeking excellence, intellectual freedom, freedom of expression, integrity and high moral value

## **PHILOSOPHY**

The basic philosophy of **Bachelor of Science Degree in Mass Communication** at the Igbinedion University, Okada is to produce knowledgeable and ethically sound communicators that will be well endowed with an equilibrium approach between theory and practice of mass communication, and the ethical requirements and professional standards of journalism profession. The philosophy is also to design and formulate an educational structure that will assist in reaching the set goals and aims as enshrined in Nigeria's National Policy on Education (NPE).

## **OBJECTIVES OF MASS COMMUNICATION DEPARTMENT, IGBINEDION UNIVERSITY, OKADA**

The major objectives of the mass communication department, Igbinedion University, Okada are:

1 to set a high standard of scholarship in the study of mass communication

2 to train the students to acquire appropriate communication skills for effective transmission of values, information, beliefs, customs, traditions and ideas to a large, heterogeneous and anonymous audience within the context of media technology.

3 to enlist the cooperation of the students who are studying communication courses theoretically and practically at Igbinedion University, Okada in the struggle to developing mass media industry in Nigeria.

4 to use acquired knowledge of mass communication as required in communication industries and

5 to develop moral and spiritual values in interpersonal and human relations

### **PHILOSOPHY, AIMS AND OBJECTIVES OF THE PROGRAMME**

1. To offer an undergraduate professionally oriented programme for the aspiring Nigerian Journalists, Communicators, Broadcasters, Public Relations and Advertising practitioners.
2. To train and retrain Nigerian Journalists, Broadcasters, Public Relations and Advertising practitioners for leadership positions in the mass media organizations in Nigeria and the world
3. To raise and sustain the professional status of journalism in Nigeria
4. To bridge the divergent perspectives of news gathering and dissemination
5. To provide the Mass Communication students with the opportunity to master the art of communicating with the masses that transcends all disciplines, whether in writing or broadcasting for an on-line website at 9pm daily, news casting or writing a speech for company Chief Executive Officer or writing Advertising or Public Relations copy to sell or promote a product to the masses.
6. To instill in the mass communication students the ability to respect deadlines and work under constant pressure.
7. To train and encourage Nigerian communicators to be effective communicators by being able to think quickly, research creatively and write or broadcast concisely to the mass audience.
8. To train Nigerian media men and women that would act as the trustees of the public trust and that would be socially responsible to the communities they serve by being accurate, fair, balanced and objective in their reportage of societal issues.
9. To produce Nigerian mass communicators who will continue to protect the basic principles of the peoples' right to know as the fourth estate of the realm.
10. To train students who at end of degree programme in mass communication will be able to differentiate soft news from hard news, truth from falsehood and responsible journalism from irresponsible journalism and
11. To train students who at the end of the degree programme in mass communication will be equipped enough to establish his/her own newspapers, magazines, Public Relations outfits and advertising agencies, or radio and/or television stations

### **ADMISSION AND GRADUATION REQUIREMENTS**

Qualifications for admission to Bachelor of Science degree in Mass Communication will generally be the same as for other Bachelor degree programmes in Igbinedion University, Okada. Admission will be based on academic performance in the School Certificate Examinations and University Matriculation Examination (UTME).

**(a) Admissions**

1	O'-Level Requirements	Five O' Level Credits in the senior secondary school certificate examination or in the General Certification examination (GCE) or national examination certificate (NECO) or their equivalents at one sitting or Six O' Level Credits in any of the above-mentioned examinations at two sittings to include English Language and at least a pass in mathematics.
2	University Tertiary Matriculation Examination (UTME) Requirements	Use of English, Literature in English and other subjects from arts and the social sciences
3	Direct Entry (DE) Requirements	(a) Professional Diploma in mass communication at distinction or credit level from recognized Institutions. (b) Two 'A' Level passes.

**(b) Graduation**

To graduate a student must have completed and passed the following number of units at each level:

100 LEVEL	36 UNITS
200 LEVEL	37 UNITS
300 LEVEL	37 UNITS
400 LEVEL	36 UNITS
TOTAL	146UNITS including all compulsory courses specified.

## **AWARD OF THE BACHELOR OF SCIENCE DEGREE IN MASS COMMUNICATION WILL BE DETERMINED BY THE GENERAL REGULATION OF THE COLLEGE OF ARTS AND SOCIAL SCIENCE AT IGBINEDION UNIVERSITY, OKADA**

The first degree in Mass Communication will be awarded in accordance with the regulations guiding courses to be taken in the 4-year Bachelor programmes in the College of Arts and Social Sciences. The regulations that govern the programme are as following: A programme of study shall be provided leading to the degree of Bachelor of Science to be denoted by the letter B.Sc., which may be awarded with an Honours or a Pass degree. Courses in mass communication are taken by instructions and demonstrations and students are required to take an approved combination of courses.

The courses are evaluated in terms of course units. A course unit is defined as one lecture/tutorial contact hour per week or three hours of practical class per week, throughout a semester, or an equivalent amount of other assigned study or practical experience or any combination of these. In the faculties/colleges of any University there are four levels of courses numbered 111-129, 211-229, 311-329 and 411-429. The courses numbers are prefixed by a three-character subject code such as: MAC for Mass Communication. The students are expected to register for their courses within the period prescribed by the institution. After registration they may add or delete courses provided this is done within six weeks of the commencement of lectures. The students shall be required to register for a prescribed minimum number of units in each academic session. The number of such units shall be approved by the Senate on the recommendation of the Board of College of Arts and Social Sciences. All students must register and pass General Studies Programme courses including the Communication in English.

All courses taught during each semester are examined at the end of the semester and students are credited with the number of course units assigned to the courses, which they have passed. The weighted grade points of all courses taken are used for the determination of the class of degree. {i.} the minimum number of course units for the award of the degree will be 146. {ii.} the degree will be awarded with honours provided a student obtains a **Cumulative Grade Point Average** that is not less than **1.50** and satisfies other minimum honours requirements. {iii.} for the award of a pass degree, a student must obtain the minimum number of units specified and the compulsory courses specified by the department.

The normal period of study for the award of an honour degree in the department is eight semesters. A student who has taken more than one academic session in excess of the approved minimum period of study to complete the degree programme will not be eligible for an honours classification. Such student will only receive a pass degree. The maximum number of semesters for an honours degree in the department is 10 while the maximum number of semesters for a pass degree is 14.

Transfer students from other Universities are expected to pass all the relevant compulsory courses and must have taken all relevant elective courses of the University to qualify for a degree of the institution. All courses done from other Universities will be converted to GPA scale that has been approved by the Senate and no admission will be made beyond the 300 level. A student who transfers from another College of the University will be credited with units, he/she has obtained from his/her Legacy College or department, which is relevant to the curriculum of the department of mass communication in Igbinedion University, Okada.

**Grade used for students that complete the course of a subject satisfactorily by the end of the semester is given below:**

Letter Grade	Grade Point	Mark Earned
A	5	70 and above
B	4	60-69
C	3	50-59
D	2	45-49
F	0	0-44

**The Final Computation of the Degrees in Mass Communication for 100 to 400 level students will be as follows:**

<b>Cumulative Grade Points Average and Remarks</b>	
4.50- 5.00	-First Class (Honours)
3.50-4.49	-Second Class Upper (Honours)
2.50-3.49	-Second Class Lower (Honours)
1.50-2.49	-Third Class (Honours)

If a student fails to obtain the minimum standard required, he will be warned or told to withdraw from the department. The minimum standard of the department is as follows: {i} **First Year:** If a student has less than 15 units he/she will be warned, but if he/she has less than 10 units he/she will be advised to withdraw. {ii} **Second Year:** A student with less than 30 units will be warned, but if he/she has less than 20 units he/she will be asked to withdraw. {iii} **Third Year:** A student that scored less than 45 units will be asked to withdraw. List of successful students in the degree examination will be published and classified as follows: First Class (Honours), Second Class (Honours) with Upper and Lower Divisions, Third Class (Honours) and Pass (the names in each classification will be arranged in alphabetical order).

*Minimum Internal Degree Requirements of Bachelor of Science in*

### **Mass Communication Programme**

<b>100 Level First Semester</b>		
<b>Code</b>	<b>Course Title</b>	<b>Units</b>
<b>Compulsory</b>		
MAC 111	Introduction to Mass Communication	2
MAC 112	Introduction to Nigerian Media History	2
MAC 113	African Communication Systems I	2
GTS 111	Communication in English I	2

GST 112	Communication in French I	2
GST 113	Logic, Philosophy and Human Existence I	2
GST 114	Nigerian People and Culture I	2
<b>Required</b>		
MAC 114	Word Processing I	4

1 ELECTIVE IN THE COLLEGE

1 ELECTIVE OUTSIDE THE COLLEGE

**Total** **18**

### 100 Level Second Semester

Code	Course Title	Units
<b>Compulsory</b>		
MAC 121	Introduction to Visual Communication	2
MAC 122	Writing for Mass Media	2
MAC 123	African Communication Systems II	2
GST 121	Communication in English II	2
GST 122	Communication in French II	2
GST 123	Logic, Philosophy and Human Existence II	2
GST 124	Nigerian People and Culture II	2
GST 125	Use of Library, Study skills and ICT	2

#### **Required**

MAC 124	Word Processing II	4
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1 ELECTIVE IN THE COLLEGE

1 ELECTIVE OUTSIDE THE COLLEGE

**Total** **20**

**Total Units for year 1: 38**

### 200 Level First Semester

Code	Course Title	Units
<b>Compulsory</b>		
MAC 211	Theories of Mass Communication	2
MAC 212	Editorial Writing	2
MAC 213	Features Writing	2
MAC 214	News Writing and Reporting	2
EPS 211	Entrepreneurial Studies	2
GST 211	History and Philosophy of Science	2

#### **Required**

MAC 215	Specialized and Advanced Reporting	2
MAC 216	Introduction to Film, Cinema and Literature	2

#### **Elective from the Department**

MAC 217	Foundation to Broadcasting	2
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#### **Elective from the College**

SAA 215	Sociology of Mass Communication	2
<b>Total</b>		<b>20</b>

**200 Level Second Semester**

<b>Code</b>	<b>Course Title</b>	<b>Units</b>
<b>Compulsory</b>		
MAC 221	Speech Making, Critical and Reviewing Writing	2
MAC222	Editing and Graphics of Communication	2
MAC 223	Foundation of Communication Research	2
MAC 224	Principles of Public Relations	2
MAC 225	Health and Population Communication	2
GST 221	Peace Studies and Conflict Resolution	2
<b>Required</b>		
MAC 226	Introduction to Publishing	2
MAC 227	Global Security, Conflict and Peace Reporting	2
<b>Elective from the Department</b>		
MAC 228	Introduction to Advertising	2
<b>Elective from the College</b>		
SAA 222B:	Element of Psychology and Social Psychology	2
<b>Total</b>		<b>20</b>
<b>Total Units for year 2:</b>		<b>40</b>

**300 Level First Semester**

<b>Code</b>	<b>Course Title</b>	<b>Units</b>
<b>Compulsory</b>		
MAC 311	Media Attachment	2
MAC 312	International Communication and the World Press	2
MAC 313	Media and Society	2
MAC 314	Newspaper and Magazine Management and Production	2
MAC 315	Science and Technology Reporting	2
MAC 316	Advertising Campaign, Planning and Execution	2
<b>Required</b>		
MAC 317	Public Affairs Broadcasting	2
<b>One Elective from the Department</b>		
MAC 318	Book Publishing and the Law	2
MAC 319	Advertising Law and Ethics	2
<b>Total</b>		<b>18</b>

**300 Level Second Semester**

<b>Code</b>	<b>Course Title</b>	<b>Units</b>
<b>Compulsory</b>		
MAC 321	Issues in Nigerian Mass Media History	2
MAC 322	Economics of News Reporting	2
MAC 323	Integrated Marketing Communication	2

MAC 324	Screen Directing	2
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**Required**

MAC 325	Investigative and Interpretative Reporting	2
MAC 326	Photojournalism and Picture Editing	2
MAC 327	Rural Community Newspaper	2

**One Elective from the Department**

MAC 328	Advertising and PR Research	2
MAC 329	Film Theory and Aesthetics	2

**Total 18**

**Total Units for year 3: 36**

**400 Level First Semester**

Code	Course Title	Units
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**Compulsory**

MAC 411	Media Law and Ethics	2
MAC 412	Data Analysis in Comm. Research	2
MAC 413	Issues in Broadcasting	2
MAC 414	Educational Broadcasting	2
MAC 415	Documentary Film Production	2

**Required**

MAC 416	Broadcast Station Mgt and Operations	2
MAC 417	Economic and Social Issues in PR/Advert	2
MAC 418	Organization and Mgt of PR/Advert Agencies	2

**One Elective from the Department**

MAC 419	Case Studies in PR	2
MAC 420	Advertising Copy and Layout and Production Techniques	2

**Total 20**

**400 Level Second Semester**

Code	Course Title	Units
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**Compulsory**

MAC 421	Media Attachment	2
MAC 422	Drama and Documentary Production	2
MAC 423	Rural Broadcasting	2
MAC 424	Research Project	6

**Required**

MAC 425	International Public Relations	2
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**One Elective from the Department**

MAC 426:	Communication and National Development	2
MAC 427:	Media Organization and Mgt	2

**Total 18**

**Total Units for year 4: 38**



## **COURSE DESCRIPTION**

Years 1-4 during the academic training will give the students grounding in fundamental and core aspects of mass communication practice and theory, and will develop their individual aptitudes and interests. The creative expressions of the students will be developed through experimentation with media and processes, and through critical thinking and evaluation. The analyses of the courses to be offered are given below:

## **MASS COMMUNICATION PROGRAMME**

### **100 Level 1<sup>st</sup> Semester Courses**

#### **Compulsory Courses**

#### **MAC 111: Introduction to Mass Communication- 2 units**

The course will introduce the students to the meaning of communication, elements of communication process and types of communication. They will learn to classify mass media into: print and electronic media. The *print media* are: newspapers, magazines and books while *electronic media* include: radio, television, film, video games, the internet and the world-wide-web. The various characteristics of mass media and functions/roles of mass communication in the society will also be outlined. Other aspects of mass media to be treated include: patterns of media ownership, media content and message patterns, media theories and media effects: principles and theories, media freedom, regulation and ethical issues, and global media and its effects on human existence. The course will end with the survey of mass media and their adjuncts: public relations and advertising.

#### **MAC 112: Introduction to History of Nigerian Media-2 units**

The course will deal with major stories, personalities and events that shape the development of mass media in Nigeria from the time that the first newspaper was published by Henry Townsend in 1859 to the introduction of radio in the 1930s and television in 1959 and the internet in the 20<sup>th</sup> century.

#### **MAC 113: African Communication Systems I- 2units**

The course deals with pristine primordial African oral traditional communications and their structures: forms and contents; showing myriads of traditional examples. It surveys past and present media systems within the context of African culture.

#### **GST 111: Communication in English I- 2units**

#### **GST 112: Communication in French I- 2units**

#### **GST 113: Logic, Philosophy and Human Existence I- 2units**

**GST 114: Nigerian People and Culture I- 2units**

### **Required Courses**

**MAC 114: Word Processing I- 4 units**

The students are to be acquitted with the instructions and the practices in typing electronically by using the computer systems, which will enable them to acquire the basic knowledge and skills that are essentials for budding journalists.

### **Elective Courses**

1 Elective in the College

1 Elective outside the College

**Total 18 units**

## **100 Level 2<sup>nd</sup> Semester Courses**

### **Compulsory**

**MAC 121: Introduction to Visual Communication- 2 units**

The course is an introduction to the basic concept of artistic design in communication. Students will be introduced to the principles and elements of artistic design in communication, Meaning, characteristics and classification of type, type selection, and typeface and type composition.

**MAC 122: Writing for Mass Media- 2units**

The course deals with instruction and practice in writing for the mass communication media with the major emphasis on development of the journalistic styles and proficiency in grammar and the use of journalistic language

**MAC 123: African Communication Systems II- 2 units**

The course further advance on other African oral traditional communications and their structures: forms and contents. It surveys traditional and modern media systems and compare and contrast them as well as look into their advantages and disadvantages within the context of African culture.

**GST 121: Communication in English II- 2units**

GST 122: **Communication in French II-** **2units**

GST 123: **Logic, Philosophy and Human Existence II-2units**

GST 124: **Nigerian People and Culture II-** **2units**

GST 125: **Use of Library, Study skills and ICT-** **2units**

### **Required Courses**

MAC 124: **Word Processing II-** **4 units**

This course is a continuation of the instructions and the practices in typing electronically by using the computer systems. The course enables the students to acquire the basic knowledge and skills in the art of typing. This knowledge will be used in typing the manuscripts and raw data collected from the field.

### **Elective Courses**

1 Elective in the College

1 Elective outside the College

<b>Total</b>	<b>20 units</b>
<b>Total Units for year 1:</b>	<b>38 units</b>

### **200 Level 1<sup>st</sup> Semester Courses**

#### **Compulsory Courses**

MAC 211: **Theories of Mass Communication-** **2 units**

The course deals with the meaning and characteristics of theory as well as specific types of theories, differences between human communication theory and mass communication theory, the communication process and communication models. The students will be introduced to four normative theories and two emergent normative theories and the social-scientific/media effect theories

MAC 212: **Editorial Writing-** **2 units**

The students will do intensive work in the theory and practice of writing editorials and column based opinions. First, they will learn to define editorial and the four main parts of an editorial: title, introduction, body and conclusion; compare the structure of an editorial with those of the other types of journalistic writing: straight news and features; define persuasion; outline theories of persuasion

that are relevant to journalism; analyse the roles of persuasion in editorial (print) and commentaries (electronic); state the strengths and limitations of persuasions in commentaries and editorials; distinguish between persuasive editorials and commentaries such as expository, narrative, argumentative and commendation; discuss trends in editorial writing in Nigeria; discuss the relevance of propaganda in editorial writing and relevant propaganda techniques; outline functions of editorials; explain how the functions interrelate; distinguish between an editorial, opinion and column writing; determine the audience of editorials; explain the impact of editorials on the readers; describe the various approaches to editorial writing like expressive, objective, subjective etc; students are to write an editorial using the various approaches; define editorial board; explain the functions of editorial board; analyse the advantages and disadvantages of an editorial board; define column; analyse the main types of column: syndicated, in-house and guest; distinguish between editorials and columns; state the roles of column in print journalism; evaluate some editorials and columns published in the Nigerian press; students are to write a column on any issue of interest: religion, sports, politics, women, children, science, education etc.

**MAC 213: Features Writing- 2 units**

The course focuses on the nature of features writing in newspaper and magazine houses. The students will be familiarize with the elements of features writing, the contents of features stories, the structure of features articles and the difference between features writing, news writing and editorial writing. Other areas of focus will include: special features and profiles, interview features and profiles, features sidebar and features series, opinion columns, personal columns, service columns, travel guide, art reviews, special correspondents, language of features, how to write the features story, how to write the features intro, features sub-editor and writing task.

**MAC 214: News Writing and Reporting- 2 units**

The course will introduce the students to the activities and attributes of reporters. Attention will be given to structural elements of news room, definition of news, determinants of news, types and characteristics of news story and principles and techniques of news gathering and dissemination in both the print and electronic media as well as principles backing issuance of press release, theories of the press, regulation of mass media, universal press laws, contempt of court and parliament, ethical issues and press terminologies.

**EPS 211: Entrepreneurial Studies- 2 units**

**GST 211: History and Philosophy of Science- 2 units**

**Required Courses**

**MAC 215: Advanced Specialized Reporting- 2 units**

The course involves the techniques in advanced instruction and practice in writing news stories with emphasis on investigative reporting and other comprehensive reporting techniques. The students will be made to identify government policies on SAP, MAMSER, 6-3-3-4 system of education etc; they

will learn sources of news on government policies; analysis of the special problems and intricacies of reporting government policies; explain how to handle leaks and deal with Official Secret Act; write news on government policies; identify various social problems such as drug trafficking, child abuse, prostitution etc; state the dominant principles and techniques in reporting social problems like fairness, objectivity, balance etc; write in-depth news on social ills; discuss art news by identifying various popular arts; write stories about arts for newspapers and magazines; identify various specialized news situations like parliamentary, court/tribunals, labour, sports, health, education etc; write news on the aforementioned specialized areas; explain the principle and rationale for human interest stories; distinguish between human interest stories and other kinds of news; write human interest stories; define news analysis, news features and interpretation; prepare stories demonstrating knowledge of news analysis and news interpretation; define impressionistic reporting; explain the techniques involved in impressionistic reporting; identify the pitfalls in impressionistic reporting and write impressionistic news stories.

**MAC 216: Intro to Film, Cinema and Literature- 2 units**

The course deals with the evolutionary developments of film, cinema and literary productions. Focus will be on the history of pioneers of documentary films, film video editing, design, pre-production planning, production process and post-production. The students will also examine film as a medium of communication and the cinema as a communication setting with particular reference to literature and its various forms: the short story, novel, poem and drama. They will have an overview of the kinds of film: documentary (nonfiction) and avant-garde-the role of the cinema in urban and rural communities.

**Elective Courses**

*Elective from the Department*

**MAC 217: Foundation to Broadcasting- 2 units**

The students will have an overview of the physical, technical and societal bases of radio and television broadcasting. They are to relate the laws of nature that make broadcasting possible as well as the scientists who exploited them and describe the individual items or equipments used in radio and television and survey the diverse environment of broadcasting stations and networks.

*Elective from the College*

**SAA 215: Sociology of Mass Communication- 2 units**

The course explains why a human society can be regarded as a system by first defining the words social system. The following factors will be explained to put the course in the right perspective: positioning mass media as a sub-system of the social system; explaining how the activities of a mass media practitioners can be perceived in systemic terms; discussing the various characteristics of systems; stating the similarities and differences of the systems discussed; explain how the characteristics combine to maintain the system. Focus will be on socialization factors while the social institutions that contribute to the process of socialization of the mass media are enumerated; the role of the mass media in the socialization process will be explained; the value of socialization of the mass media will be discussed; the relationship between the mass media and other social institutions like the family, church, hospital etc; will be analyzed. The aspect of professional socialization will be

explained; how the structures and professional hierarchies of the newsroom and other work units of mass media organizations contribute to the socialization of professional communicators; evaluate the roles of training; codes of ethics and mass media policies in the socialization of professional communicators; discuss the extent to which external forces such as government policies, existing laws, pressure groups and mass media audiences contribute to the socialization of professional communicators; analyse the importance of proper socialization of professional communicators in the nurturing and sustenance of a dynamic, free and responsible press; discuss how improvement in the professional socialization of communicators can be attained. The students will learn the influences of socialization on mass media gate-keeping; analyse the various types of media policies that professional communicators have to work with; explain how mass media policies influence the news and other editorial content; give examples of how and why newsroom relationship and professional norms influence the content of the mass media.

**Total 20 units**

### **200 level 2<sup>nd</sup> Semester Courses**

#### **Compulsory**

##### **MAC 221: Speech Making, Critical and Reviewing Writing - 2 units**

The course introduces students to the historical context of speech communication, basic principles of speech communication, types of speech and steps towards quality speech making and writing- oratory, logic, language and styles in speech making and writing. The students will also be made to do critical and reviewing of selected speeches of great leaders in the world.

##### **MAC 222: Editing and Graphics of Communication - 2 units**

The course will introduce the students to the concepts of graphic design, the principles and elements of designs in communication, principles of composition in design, page planning, typography, make-up techniques, editing process and editing symbols as well as picture treatment: captioning and cropping of photographs.

##### **MAC 223: Foundation of Communication Research- 2 units**

The course introduces the students to data gathering methods in journalism and mass communication and enables them to analyse research data and critically evaluate any piece of journalistic writing or social science research. Another objective is to help the students to apply the learnt methods in carrying out research projects.

##### **MAC 224: Principles of Public Relations- 2 units**

The course deals with definition, concepts, theories and practice of Public Relations and Public Affairs and the importance of PR in either profit or non-profit organizations. It deals with relationship and differences between PR and advertising. Other areas of focus are: managing Customer Relations; Working with the media; understanding public opinion and crisis communication.

**MAC 225: Health and Population Communication- 2 units**

The course examines the role of communication within the context of human health, birth rate, death rate and human sexual relations, as well as the factors responsible for constant increase in human population, the rural-urban drift and its implications on human social relation and politico-economic development. Students will be acquainted with health communication strategies, such as: posters, billboards, drama sketch, radio programmes, mass mobilization programme etc that can be adopted as preventive mechanisms for the control of communicable diseases and deadly diseases such as AIDS, hypertension, diabetes and cancer, among others. Focus will be on the appropriate communication tools such as: transit media- that can be used to disseminate information to urban and rural dwellers on the causes of infant and maternal mortality rate, as well as birth and population control and the role of Non-Governmental Organization in the development of community health. The issue of census will be discussed with focus on its importance, functions and economic importance.

**GST 221: Peace Studies and Conflict Resolution 2 units**

The course focuses on the major causes of conflicts and the ways of resolving them. The aim is to provide a platform for a peaceful society by discussing the concepts and theories of peace as well as concepts and theories of conflict. The students will learn the peaceful method of handling conflicts and non-peaceful method of handling conflicts. Cases of conflicts will be treated by looking at the origin and factors of the conflicts and the mechanisms used.

**Required Courses**

**MAC 226: Introduction to Publishing - 2 units**

The course examines book publishing as a cultural activity and as a business: the business environment of book publishing focusing on environment analysis using the SWOT analysis method in business organizations. The focus will be on book publication as a mass industry: divisions of the industry and a critical look at the publishing process, industry activities and associations.

**MAC 227: Global Security, Conflict and Peace Reporting - 2 units**

This course focuses on the concept of news reporting for global security, conflict management and peacemaking within the context of African, Asian and Western cultures. The concept of the word: Reporting should be given in order to put the term in the right operational perspective. The students' attention will be drawn to the structural elements of news-stories, definition of news and nature of news: news judgement, news values and determinants of news; types and rudiments/characteristics of

news story as well as principles and techniques of news gathering. Elements and formats for writing security, conflict and peace news in both the print and electronic media will be discussed. The message patterns for this type of news analyses will follow the standard parameter used in the traditional news coverage and the media content for this type of news story will showcase the existing topics on security, conflict and peacemaking around the world. Among such topics are: *Concept of human security, conflict and internally displaced persons, peace enforcement, meaning of disarmament, public safety system, security and violence, refugees, crisis management, crisis bargaining, war and its resolution, peace-making and peace-sharing, disarmament, demobilization, and reintegration, decision making in crisis situation, and mechanisms of conflict prevention, management and resolution.* Emphasis will be on the electoral, political and religious impasse that had ravaged Nigerian society since independence in 1960. Other issues to consider include: theories of the press, regulation of mass media, universal press laws, contempt of court and parliament and ethical issues of the press that are relevant to conflict situations within the global context.

## **Elective Courses**

*Elective from the Department*

### **MAC 228: Introduction to Advertising - 2 units**

The course deals with the definitions of advertising; types and functions of advertising; history and development of advertising in Nigeria; structure of advertising industry: agency clients and media; development of advertising agencies; functions of the advertising manager; the advertising brief: writing and assessing advertising proposals; advertising process: how ads work; role of advertising in marketing; career development in advertising and advertising training and education

*Elective from the College*

### **SAA 222B: Element of Psychology and Social Psychology - 2 units**

The course focuses on the differences between psychology and social psychology; theories and methods of motivation; relevance of social psychology to mass communication. The specialization and fields of psychology will also be discussed in the class.

<b>Total</b>	<b>20 units</b>
<b>Total Units for year 2:</b>	<b>40 units</b>

## **300 Level 1<sup>st</sup> Semester Courses**

### **Compulsory Courses**



**MAC 311: Media Attachment-****2 units**

The students are to do the media attachment in order to understudy the operations of the media organizations and they are to submit a comprehensive account of their experience during this industrial training programme.

**MAC 312: International Communication and the World Press - 2 units**

The course examines the world press system; the flow of information, the agency news and different news agencies in the world: their nature and functions, issues and ideologies surrounding the establishment of the agencies, and how culture and economy shaped communication across borders. The students are to learn various definitions of international communication; distinguish between international communication and various types of communication like intercultural communication; discuss the important models of international communication; trace the history of international communication from the developing world's perspective; describe how this history affects modern international communication; explain global news and the developing countries' concept of news flow as well as the soviet concept of news flow; discuss the western concept of news flow and analyse the problems caused by these differences in international news perspective; state the functions of cables, radio, television, satellites, facsimiles, newspapers, magazines, laser computers etc as vehicles of international communication; evaluate how the media, in those mentioned above, have served as a means of communication among nations; explain the concept of free and balanced flow of information; analyse the concept of the global village by McLuhan; explain the communist political perspective of media and cultural imperialism on global communication; discuss the developing countries' position on global communication with particular reference to development communication; state how the global news agencies emerged e.g. Reuters, TASS, AFP, AP, UPI, Kyodo etc; analyse the trends in modern news agency operations and the problems of international news agencies; state how the problems can be solved; analyse the developing countries news agencies e.g. NAN, and their roles and discuss the history, ownership, function, problems and prospects of the News Agency of Nigeria; list and discuss the major international communication organizations such as IBU, ITU etc; and discuss their history and problems; trace the history of information and communication order debate and explain the developing countries' position on the debate; state the western perspective of NWICO debate and the eastern perspective on the debate; explain the concept of cultural imperialism/cultural invasion in international communication; analyse the problem of ideological differences in international communication; evaluate the problems of new communication technologies and analyse the problems of trans-border data flow.

**MAC 313: Media and Society - 2 units**

The course introduces students to communication process; traditional and modern means of communication; the mass media: classification and characteristics; functions of mass media and theories of the mass media. There will be an overview of the mass media in Nigerian society and focus will be on media ownership and control; press freedom in Nigeria; press council and Nigerian social structure. Other factors to examine include: culture and the mass media; social change and mass media; cultural imperialism and media dependency; globalization and the media; technology and the media; social institutions and the mass media; social effects of the mass media; mass media and economy; media and governance; media ethics in Nigeria and mass media and development

**MAC 314: Newspaper and Magazine Management and**

**Production- 2 units**

The course deals with the basic management and economic theory and application of theory to the management process in the newspaper business and the application of theories of economics and management to the management of general and specialized magazines. Students will process editorial materials and produce the MASSCOPE

**MAC 315: Science and Technology Reporting - 2 units**

The course deals with the reportage of science and technology that are related to mass media, how they were introduced, their impact on the socio-economic development of the world, the role they played in making the world a global village and their impact on mass communication process.

**MAC 316: Advertising Campaign, Planning and Execution - 2 units**

This course is designed to familiarize the students with different roles played by the key actors in the planning and execution of advertising campaigns. It is also aimed at teaching the students how to practice and how to play these roles.

**Required Courses**

**MAC 317: Public Affairs Broadcasting- 2units**

The course deals with critical examination of the structure, internal dynamics and functions of the news and current/public affairs division of broadcasting organizations. The students will treat the aspect of interpretative reporting of government and public institutions and agencies and production of current/public affairs discussions, news magazines and documentaries. The students will be assigned to carry out a documentary project on the socio-economic life of their immediate environment.

**Elective Courses**

*One Elective from the Department*

**MAC 318: Book Publishing and the Law- 2 units**

This course is an in-depth study of those aspects of the law basic to book publishing with emphasis on libel, copyright, national security, privacy etc. Attention will be given to the attendant ethical considerations.

**MAC 319: Advertising Law and Ethics- 2 units**

The study focuses on structure of advertising regulation and control: legal and voluntary mechanisms; basic law and ethics; elements of business law; law of contract; liability in tort; pertinent torts in advertising: defamation, copyright, passing off, negligence, invasion of privacy, obscenity, and decency etc; code of ethical conduct; guidelines on advertising of tobacco products, alcohol, beverages, food, drugs, cosmetics, financial institutions, political advertising etc; role of government agencies; regulatory bodies: origin, structure and functions; role of professional associations: AAAN, BON, MPAN, OAN, ADVAN etc; ethical problems: direct media buying, media broke age etc

**Total 18 units**

**300 Level 2nd Semester Courses**

**Compulsory Courses**

**MAC 321: Issues in Nigerian Mass Media History- 2 units**

The course will focus on dynamics of mass media from 1859 when the first newspaper was published and Political, legal and ethical issues that occurred in the history of the press till date. Focus will also be on historical antecedents, dynamism of media practitioners, how newspaper, radio and television came into existence and their developments, role of political cartoons in the development of Nigerian press, freedom of the press, access to information, censorship, closure of media, disclosure of sources of information and ban on importation of materials for production.

**MAC 322: Economics of News Reporting- 2 units**

Much of what passes for economics of news reporting in the Nigerian news media is written by economists for economists. The course aims at preparing the students to write up and analyse issues relating to the economy for a mass audience. A basic course in economics is desirable, but not essential. Students offering this course should have successfully completed advanced reporting course.

**MAC 323: Integrated Marketing Communication- 2 units**

The course deals with perspectives of integrated communications; elements of promotional strategy: publicity, personal selling, sales promotion, public relations; promotional strategy plans: objectives, target audience, message development etc; management of personal selling; consumer promotion: trends and tactics; marketing public relations: fund raising, lobbying, promoting politicians, campaign management; event management; issues marketing: information, education and communication strategy (IEC); marketing politics: the integrative approach; corporate communication strategy and legal and ethical consideration in marketing communications.

**MAC 324: Screen Directing- 2 units**

The course deals with film production and theories of directing dramatic forms and acting. The latter-*theories of directing dramatic forms and acting* will be examined through lectures, demonstrations and applied exercise to establish theoretical and practical foundations.

**Required Courses**

**MAC 325: Investigative and Interpretative Reporting - 2 units**

The course is designed to teach the students the basic methods of investigating and interpreting news events. Investigative reporting will be defined; the purpose of investigative reporting will be stressed; investigative prone issues like government policies, tax evasion, disaster, epidemic etc will be examined; the process of investigative reporting like research, interview and independent probe will be treated; strategies of investigative reporting will be outlined, evaluated and discussed; ethical and legal implications of investigative reporting will be treated and students will be assigned to carry out investigative reporting within their locality. Interpretative reporting will be defined; the purpose of interpretative reporting will be stated; interpretative issues will be examined; the process of interpretative reporting will be described; the approaches to interpretative reporting will be outlined, evaluated and discussed; ethical and legal implications of interpretative reporting will be explained and students will do myriads of assignments by using interpretative reporting techniques.

**MAC 326: Photo Journalism and Picture Editing- 2 units**

The course deals with practical introduction to news photography; basic camera and darkroom techniques. It deals with photojournalists' sensitivity to peoples' circumstances and events to which he/she is expected to take pictures that communicate. The students will learn fundamentals of photography, operation of different cameras, photographic processes and the use of standard photographic equipments and materials in the photo laboratory. The course equally deals with photo reporting. Emphasis will be on pictures that communicate with aesthetic as well as technical skills.

Students are to be taught the techniques of photogram and photo essay. There will be a study of technical and aesthetic qualities of photographs and how these factors affect editorial decisions concerning the use of pictures in publication. Practical work in layout and design and other duties of a newspaper and magazine picture editor will be treated.

**MAC 327: Rural Community Newspaper- 2 units**

The course will focus on prospects and challenges facing rural newspapers with attention to the role and qualities of newspaper production. The students will be taught how to analyse national systems of print journalism worldwide and how they have affected local press; how to identify grassroots information seekers, information carrier, information indifferent and rumour carrier; major divisions of community newspapers; functions of the editor and other staff of community newspaper; identify the revenue sources for the community newspaper; departmentalization of community newspaper; describe the front and back pages of a community newspaper; explain the localization of news in community newspaper; describe the letter press, offset, gravure, stenciling, and other printing methods; explain lithography and plate making process; process a community newspaper for production; explain the process of circulation and marketing of community newspaper.

**Elective Courses**

*One Elective from the Department*

**MAC 328: Advertising and PR Research- 2 units**

This course applies quantitative and qualitative research methodologies within the context of advertising and public relations. Emphasis will be on budget, copy and media research.

**MAC 329: Film Theory and Aesthetics- 2 units**

The course introduces students to film, cinema and literature and film production. It explores film as extension of photography. There will be systematic consideration of the basic aesthetic principles, photographic approach, affinities and art. There will be analysis of the properties of the film medium with regard to the realistic tendency and formative tendency, or realism as exemplified by the Lumiers brothers and expressionism as exemplified by Melie and the clashes/compromises between both. The issues of film/cinema as an art will be treated.

**Total 18 units**

**Total Units for year 3: 36 units**

**400 Level 1<sup>st</sup> Semester Courses**

**Compulsory Courses**

**MAC 411: Media Law and Ethics- 2 units**

The course focuses on the study of the legal framework within the context in which mass media operate. Special focus will be on law of defamation: libel and slander, differences between libel and slander, elements of libel, types of libel; list and explain defenses in libel; law of sedition in Nigeria; define sedition and explain criminal libel; contempt of court/contempt of parliament; types of contempt; sanctions that can be imposed by court or parliament for contempt; law of copyright; law of protected/prohibited space; list some prohibited spaces; official secrets act; invasion of privacy-snooping; disclosure of sources; confidential information; freedom of information bill; restrictions on reportage of divorce and ancillary proceedings and children, indecent details proceedings and taking of

photographs in court; obscenity law and legal pitfalls. The students will learn about issues bordering on ethics and morality; ethical theories and factors responsible for the moral development of individuals; ethical problems in journalism profession; ethical issues involving journalists and members of the society and ethical mechanisms that are available to profession journalists.

**MAC 412: Data Analysis in Communication Research- 2 units**

The Students will be exposed to data analysis tools such: content and quantitative analyses; the latter involves the use of questionnaires, tables, graphs, frequency distribution, charts for presentation, measure of central tendency, mean, median, mode, comparison of measures, measure of dispersion: range, standard deviation, variance, skewness as well as test of hypothesis. The students will also be exposed to inferential statistics: statistical testing, correlation and regression, probability theory and uses of computer in quantitative analysis.

**MAC 413: Issues in Broadcasting- 2 units**

The course will be based on survey of critical perennial issues and contemporary matters that can generate debate and controversies in broadcasting such as sex, violence, political and economic control.

**MAC 414: Educational Broadcasting- 2 units**

The course will do a critical assessment of educational potentials and limitations of radio and television stations. It will evaluate the pedagogic approaches and production of education programmes.

**MAC 415: Documentary Film Production- 2 units**

The course deals with the evolutionary developments of film production. Focus will be on the history of pioneers of documentary films, film video editing, design, pre-production planning, production process and post-production.

### **Required Courses**

**MAC 416: Broadcasting Station Mgt and Operations-2 units**

The course will focus on the analysis of the nature and process of management and organization as well as the skills required for managing a broadcasting station.

**MAC 417: Economic and Social Issues in PR/Advert-2 units**

This course focuses on the study of advertising and public relations as institutions; the laws and ethics governing the profession in Nigeria as compared to developed countries like United States of America and Britain; self regulation by practitioners and professional associations; consideration of social responsibility, truth and deception and consumerism, among others.

**MAC 418: Organization and Mgt of PR/Advert Agencies- 2 Units**

The course deals with how to set up and effectively run advertising and public relations agencies. The students will acquire consulting and entrepreneurial skills in the areas of advertising and public relations.

### **Elective Courses**

*One Elective from the Department*

**MAC 419: Case Studies in Public Relations - 2 units**

This course is designed to sharpen the ability of the students in assessing public relations problems and offering solutions. The students will be trained to identify public relations policies and practices in various organizations; to identify the sources of public relations problems in various organizations; to analyse possible effects of the problems in the various organizations discussed. The course will go further to acquaint the students with myriads of case studies in public relations organizations; to analyse case studies; to identify specific problems in public relations case studies; to prepare solutions for the case studies. The students will present case studies emanating from Nigeria e.g. NEPA, NTA, Nigeria Airways, the Police etc; they will list areas for public relations case studies and analyse public relations cases drawn from their locality. The students will identify areas for public relations case studies; they will draw up a public relations programme to solve the problems emanating from the case studies; the lecturer will supervise the execution of the PR programme that is drawn by the students and evaluate the success of the execution. The students will finally write group and individual reports; present group and individual reports and evaluate the group and individual reports

**MAC 420: Advertising Copy, Layout and Production Techniques- 2 units**

The course focuses on the nature of advertising writing; copyright principles; copy strategy; copy format and layout; writing copy for newspapers, magazines, outdoor, radio and television and web advertising; design principles; stages of advertising layout; designing for various media; introduction to various digital layout programmes; photography and lithography; printing methods/processes; production techniques for print media; production techniques for radio and television and role of computer in modern advertising production.

**Total 20 units**

**400 Level 2<sup>nd</sup> Semester Courses**

**Compulsory Courses**

**MAC 421: Media Attachment- 2 units**

The students are to do the media attachment in order to understudy the operations of the media organizations and they are to submit a comprehensive account of their experience during this industrial training programme.

**MAC 422: Drama and Documentary Production- 2 units**

The course deals with overview of special problems involved in producing drama and documentary for radio and television; blocking; casting; budgeting; performance. The focus will only be on drama or documentary for both radio and television or both drama and documentary for only radio and television.

**MAC 423: Rural Broadcasting- 2 units**

The course analyses the community needs and problems with regards to the role and qualities of radio and television. It deals with planning of community development projects for implementation through special radio programmes; programme production and evaluation research.

**MAC 424: Research Project- 6 units**

The students are to initiate and execute a project of interest in the field of mass communication; they must follow the steps in the research methods they have learnt during the period of their academic studies in the University.

### **Required Courses**

#### **MAC 425: International Public Relations- 2 units**

The course focuses on the analysis of trends, issues and problems confronting public relations in multinational corporations and other organizations involved in international trade and business.

### **Elective Courses**

*One Elective from the Department*

#### **MAC 426: Communication and National Development - 2 units**

This course is designed to enable the students have an insight into the role of communication in the national development process. The students will learn how to define the term: national development; learn to distinguish between a more developed and less developed nation and to explain the major characteristics of a less developed nation. The students will equally learn the definition of the concept: development communication; distinguish between development communication and other forms of communication e.g. interpersonal, intrapersonal, group, international and intercultural. They will trace the historical foundation of development communication and analyse the rationale behind development communication. The students will treat the basic functions of development communication and list the functions such as: loudspeaker, reformer, organizer, equalizer, enricher, accelerator, legitimizer, researcher, mobilizer, informant and educator; they will equally appraise all the functions listed above. The lecturer will teach the students the theories of development communication; explain the instructional design strategies and the principles of selectivity that embraces acceptance, perception, rejection, avoidance, retention etc; explain the participatory theory and analyse social marketing strategy. The students will learn how to determine when and how to use interviews, talk shows, drama, short stories, poetry, posters and magazine programmes in development communication and they will practice the technique to show understanding of the subject. The lecturer will discuss the major obstacles to development communication such as poverty, transportation, conceptualization, training, funding, ignorance, illiteracy etc. The students will carry out projects on any of the following topics: (1) communication and primary health care (2) communication and rural development (3) communication and education (4) communication and agricultural development (5) communication and family planning (6) communication and rural/urban migration and (7) communication and urban congestion.

#### **MAC 427: Media Organization and Mgt- 2 units**

This course is designed to familiarize the students with the philosophies, principles and techniques of organization and management of mass media industries. The students will be made to describe the structural organization for a typical magazine or newspaper organization; explain how to organize or structure typical radio, television and film houses; explain how to organize book publishing, public relations and advertising agencies; prepare an organogram for any of these media organizations; identify the various philosophies and theories and differentiate between the theories and philosophies; explain how to manage personnel in media organizations e.g. editorial, technical and administrative; identify the different departments in newspaper and magazine establishments and state how the various departments relate to each other and explain the organizational structure of each department; explain interpersonal communication in print media management; define group dynamics in print media management; explain communication lines in print media management and assess group influence in print media organizations; explain various newspaper and magazine policies; state the

principles of management relevant to newspaper and magazine production and outline the strategy of funding; state the functions of the advertising department; state the functions of the circulation department; identify other sources of revenue for the print media; explain the cost reduction techniques in newspaper and magazine production; explain the relationship between media houses and commercial establishments; identify the departments in a radio station; identify the different departments in a television station; state how the various departments relate to each other and explain the organizational structure of each department. Explain interpersonal communication in broadcast media management; define group dynamics in broadcast media management; explain communication lines in broadcast media management and assess group influence in broadcast media management; explain various broadcast media policies; state the principles of programming in management and analyse the strategy of timing in programmes; state the functions of the commercial department; explain the relationship between media houses and commercial establishments; identify other sources of revenue for the stations and explain cost reduction methods in production.

**Total**                      **18 units**  
**Total Units for year 4:**              **38 units**

### Units to Complete before Graduation

Summary	M.C. Dept. Units	NUC Benchmark
Year One	38 units	36 units
Year Two	40 units	37 units
Year Three	36 units	37 units
Year Four	38 units	36 units
<b>Total</b>	<b>152 units</b>	<b>146 units</b>

### Department of Mass Communication Academic Staff

S/N	NAME	QUALIFICATIONS	RANK
1.	Ayo Elebute.	Cert. (Mgt), N.Dip, B.A, PGD, M.A., M.Sc., M.Phil., PhD	S/L-F/T
2.	Chris Odoemelam	B.A, M.A., PhD	L/I-F/T
3.	Bayo Oloyede	B.Sc., M.Sc., PhD	Prof. P/T
4.	Andrew Ate	B.A., M.A., PhD	S/L-P/T
5.	Samaila Mande	PGD, M.Sc., MBA, PhD	A/P-P/T
6.	Olise Prosper	B.A., M.A., M.Sc., PhD	S/L-P/T
7.	Pius Omole	B.A., M.A.	L/I-F/T
8.	Melody Airen	N.C.E. B.Sc., PGD, M.Sc.	L/II-F/T



9. Joyce Imhanobe	B.A., M.A.	A/L/F/T
10. Ewomazino Akpor	B.Sc., M.Sc.	A/L-F/T
11. Josephine Omoruyi	Dip, B.Sc., M.Sc.	A/L-F/T

**Key:**

**Prof=Professor, A/P= Associate Professor, S/L= Senior Lecturer,**

**L/I=Lecturer I, L/II=Lecturer II, A/L=Assistant Lecturer,**

**P/T= Part-Time, F/T=Full-Time**

## **DEPARTMENT OF POLITICAL SCIENCE AND PUBLIC ADMINISTRATION**

### **Introduction**

The Department of Political Science & Public Administration of Igbinedion University as one of the foundation departments of the university is a unique department that from its inception has charted distinct pathways to academic excellence. It has programmes which are broad in scope, open and accessible to all. The Department from its inception in October 1999 developed a programme that transcended the traditional restrictions of learning in similar departments in other Universities, thus transcending all social divides of the time. It is truly a department for anyone who is qualified and open to study in its core vocational areas. The Department today is a comprehensive research department that interweaves the main elements of similar departments of any Ivy League university with an unusually strong public service mission. Many words can be used to describe the nature of this Department as a whole: complex, creative, entrepreneurial, eminent, and engaged.

Programmes of study are available at both Undergraduate and Postgraduate levels. At the Undergraduate level, our curriculum covers subjects in the fields of Political Science including Comparative Politics, Public Administration, Political Philosophy, International Relations and National Government.

At the Postgraduate level, we offer (i) Masters of Science in Political Science with specialization in either of Comparative Politics, Public Administration and Political Theory; (ii) Postgraduate Diploma in Public Administration; (iii) MPhil/PhD; and (iv) PhD in all of the fields of Political Science.

### **Objectives**

The objectives of the Department of Political Science and Public Administration are to:

- (a) Produce high level manpower relevant to the needs of both the public and private sectors bureaucracies;
- (b) Acquaint and students with in-depth understanding of the principles, theory and practice of politics and administration;
- (c) Foster the nurturing, imbibing and sustenance of acceptable democratic principles through the training of necessary manpower for both the private and public sectors of the economy;

- (d) Train students to be interested in the pursuit of knowledge and skills and so endeavour for higher degrees and knowledge. In this regard, we provide necessary basis for such pursuit;
- (e) Produce students who would contribute their quota towards the integral development of the country.

**LIST OF UNDERGRADUATE COURSES**

**100 Level**

<b>FIRST SEMESTER</b>				
<b>S/ N</b>	<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>CREDIT UNIT</b>	<b>STATUS</b>
1	POL 111	Introduction to Political Science	3	C
2	POL 112	Nigerian Constitutional Development	2	C
3	POL 113	Nigerian Legal Systems I	2	R
4	POL 114	Introduction to Management	2	R
5	GST 111	Communication in English I	2	C
6	GST 112	Logic, Philosophy and Human Existence	2	C
7	GST 113	Nigeria Peoples and Culture	2	C
8	SAA 111	Introduction to Sociology	2	R
9	ENG 114	Practical English Grammar I	2	E
10		<b>ANY ONE (1) ELECTIVE</b>	2	E
	<b>From:</b>	College of Arts & Social Sciences		
		<b>SUB-TOTAL</b>	<b>21</b>	

<b>SECOND SEMESTER</b>				
1	POL 121	The Citizen and the State	3	C
2	POL 122	Organization of Government	2	C
3	POL 123	Nigerian Legal Systems II	2	R
4	POL 124	Introduction to Public Administration	2	R
5	GST 121	Use of Library, Study Skills and ICT	2	C
6	GST 122	Communication in English II	2	C
7	GST 123	Communication in French/Arabic	2	C
8	SAA 121	Introduction to Psychology	2	R
9	ENG 124	Practical English Grammar II	2	E
10		<b>ANY ONE (1) ELECTIVE</b>	2	E
	<b>From:</b>	College of Arts & Social Sciences		
		<b>SUB-TOTAL</b>	<b>21</b>	
		<b>OVERALL TOTAL</b>	<b>42</b>	

**KEY:**

**C = Compulsory:** Courses that **must** be passed **before proceeding**

**R= Required:** Courses that **must** be passed **before graduating**

**E= Elective:** Courses that **should** be passed **before graduating**

**200 Level**

<b>FIRST SEMESTER</b>				
<b>S/ N</b>	<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>CREDIT UNIT</b>	<b>STATUS</b>
1	POL 211	Nigerian Government & Politics I	3	C
2	POL 212	Introduction to Political Analysis	2	C
3	POL 213	Introduction to African Politics	2	R
4	POL 214	Introduction to International Relations	2	C
5	POL 215	International Political System & Africa	2	R
6	GST 211	History and Philosophy of Science	2	C

7	CASS 201	Statistics for Social Sciences I	3	C
8		<b>ANY ONE (1) ELECTIVE</b>	2	E
	<b>FROM</b>	College of Arts and Social Sciences		
		<b>SUB-TOTAL</b>	<b>18</b>	
		<b>FOR DIRECT ENTRY</b>		
9	GST 111	Communication in English I	2	C
10	GST 112	Logic, Philosophy, Human Existence	2	C
11	GST 113	Nigeria Peoples and Culture	2	C
		<b>SUB-TOTAL</b>	<b>24</b>	

<b>SECOND SEMESTER</b>				
1	POL 221	Nigerian Government & Politics II	3	C
2	POL 222	Political Ideas	2	C
3	POL 223	Foundations of Political Economy	2	C
4	POL 224	Theory & Practice of Local Government	2	R
5	GST 222	Peace Studies and Conflict Resolution	2	C
6	CASS 202	Statistics for Social Sciences II	3	C
7	EPS 221	Introduction to Entrepreneurial Studies	2	R
8	CSP 221	Community Service Program	2	R
9		<b>ANY ONE (1) ELECTIVE</b>	2	E
	<b>FROM</b>	College of Arts and Social Sciences		
		<b>SUB-TOTAL</b>	<b>20</b>	
		<b>OVERALL TOTAL</b>	<b>38</b>	
		<b>FOR DIRECT ENTRY</b>		
10	GST 121	Use of Library, Study Skills and ICT	2	C
11	GST 122	Communication in English II	2	C
12	GST 123	Communication in French/Arabic	2	C
		<b>SUB-TOTAL</b>	<b>26</b>	
		<b>OVERALL TOTAL</b>	<b>50</b>	

**KEY: C = Compulsory      R= Required      E= Elective**

*300 Level*

<b>FIRST SEMESTER</b>				
<b>S/ N</b>	<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>CREDI T UNIT</b>	<b>STATUS</b>
1	POL 311	Logic and Methods of Political Inquiry	2	C
2	POL 312	Public Policy Analysis	2	R
3	POL 313	Politics of Development & Underdevelopment	2	C
4	POL 314	History of Political Thoughts I	2	R
5	POL 315	The Methodology of Comparative Politics	2	C
6	POL 316	Theories of International Relations	2	R
7	POL 317	Theory and Practice of Administration	2	R
8	POL 318	Foreign Policy Analysis	2	R
9	EPS 311	Entrepreneurial Studies	2	R
		<b>SUB-TOTAL</b>	<b>18</b>	

<b>SECOND SEMESTER</b>				
1	POL 321	Research Methods	2	C
2	POL 322	Political Behaviour	2	C
3	POL 323	Comparative Federalism	2	C
4	POL 324	History of Political Thoughts II	2	R
5	POL 325	Contemporary Political Analysis	2	R
6	POL 326	Theory and Practice of Marxism	2	R
7	POL 327	Public Administration in Nigeria	2	R
8	POL 328	Issues in International Politics	2	R
		<b>SUB-TOTAL</b>	<b>16</b>	
		<b>OVERALL TOTAL</b>	<b>34</b>	

**KEY:**

**C = Compulsory      R= Required      E= Elective**

*400 Level*

<b>FIRST SEMESTER</b>				
<b>S/ N</b>	<b>COURS E CODE</b>	<b>COURSE TITLE</b>	<b>CREDIT UNIT</b>	
1	POL 411	Civil-Military Relations	2	C
2	POL 412	Comparative Politics	2	C
3	POL 413	Development Administration	2	R
4	POL 414	Politics of Globalization	2	R
5	POL 415	Theories of the State	2	C
6	POL 416	Nigerian Foreign Policy	2	R
7	POL 417	International Organizations	2	R
8	POL 418	Issues in Political Philosophy	2	R
		<b>SUB-TOTAL</b>	<b>16</b>	

<b>SECOND SEMESTER</b>				
<b>S/ N</b>	<b>COURS E CODE</b>	<b>COURSE TITLE</b>	<b>CREDIT UNIT</b>	
1	POL 421	Principles of International Law	2	R
2	POL 422	Comparative Public Administration	2	C
3	POL 423	African Political Thoughts	2	R
4	POL 424	Nigerian Local Government	2	R
5	POL 425	Political Parties and Pressure Groups	2	R
6	POL 426	Research Project (2 Semesters)	6	C
		<b>SUB-TOTAL</b>	<b>16</b>	
		<b>OVERALL TOTAL</b>	<b>32</b>	

**KEY:**

**C = Compulsory      R= Required      E= Elective**

## **COURSE DESCRIPTION (Undergraduate)**

### ***100 LEVEL***

#### **Core Courses**

##### **POL 111: Introduction to Political Science                      Credit Unit: 3**

This course introduces students to the nature of politics and how it is studied. It emphasizes the issues of political discourse and practice. It also introduces students to the language and basic concepts of Politics. The student is later introduced to the methods of Political Science.

##### **POL 112: Nigerian Constitutional Development                      Credit Unit: 2**

The student is taken through Nigerian Constitutional Development in a chronological and sequential order. In this course, emphases are on topics like colonial constitutions such as the Richards Constitution, the McPherson Constitution, the Littleton Constitution; and post-independence constitutions like the Independence Constitution of 1960, the Republican Constitution of 1963, the 1979 Constitution, the 1989 and 1999 Constitutions. Each constitution will be examined based on the background to its making, basic provisions or features, landmarks/merits and failure/demerits.

##### **POL 121: The Citizen and the State    Credit Unit: 3**

The course focuses on the reciprocal relationship between the state and the citizens; it introduces students to the concepts of State and Citizenship including the relevance of duties and obligations of the citizen to the state as well as the responsibility of the state to the citizen. Issues of rights, freedom and patriotism are in focus.

##### **POL 122: Organization of Government    Credit Unit: 2**

The course introduces students to various ways of organizing governments such as models of Legislature, Executive and Judiciary; discussions on forms of political and administrative system such as Unitary, Federal and Confederal; as well as systems of government like Monarchism, Parliamentarianism and Presidentialism; and instrumentalities of political interactions like political parties, pressure groups, interest groups etc.

#### **Required Courses**

##### **POL 113 & 123: Nigerian Legal System I & II    Credit Unit: 4**

This course introduces students to the concept of law and legal system as the basis of state organization. It traced the evolution of Nigerian Legal System beginning with the pre-colonial period in terms of treaties, charters and conventions used in administration, to legal system under the British colonial rule and finish with post independence Nigeria legal system. The course will also look at issues of fundamental human rights, citizenship and rule of law in Nigeria.

##### **POL 114: Introduction to Management    Credit Unit: 2**

Introducing students to conceptual issues in management and administration including; theories and practice of management, leadership theories, organizational structure, personnel issues, including staffing, motivation and study of organizational theories.

**POL 124: Introduction to Public Administration** **Credit Unit: 2**

Study the rationale of public administration and the ecology of public administration; the politics of administration; the administrative actor, delegation of power and administrative audit; and control elements of administrative law.

**200 LEVEL**

**Core Courses**

**POL 211 & 221 Nigerian Government and Politics** **Credit Unit: 6**

The evolution of Nigerian State; from the pre-colonial history through the periods of European penetrations from the Explorers, Missionaries to the Colonialists; colonial state formation and colonial administrative system; Nationalism and political independence; democracy, federal practice and the Military in government and politics; critical issues in Nigerian Politics such as Ethnicity, Religion, Gender, Elections, Representation and the Economy.

**POL 212: Introduction to Political Analysis** **Credit Unit: 2**

The nature of politics, political systems and the structure of government, political representation and institutions of different regimes, the relationship between regime types and political efficiency, citizen's participation and political culture.

**POL 214: Introduction to International Relations** **Credit Unit: 2**

The nature of the International Society, the concept of state and non-state actors, the theories of International Relations, linkage politics; theories of Coalitions and Alliances, Balance of power and the structure of the World System.

**CASS 201 & 202: Statistics for Social Sciences** **Credit Unit: 6**

The nature of Statistics- types of statistics, sources of statistical data and methods, Frequency Distributions, Measures of Central Tendencies, Measures of Dispersion Range, Variance, Standard Deviation, Elementary Probability Theory, Binomials, Normal and Poisson Distribution, Test of hypotheses- Small Sample Test, Chi-Square Test and F-test, Time Series Analysis, Correlation and Regression Analysis, ANOVA of Variance.

**POL 222: Political Ideas** **Credit Unit: 2**

The nature of idea, role of political idea in state organization, the place of theory in idea formulation, emphasis must be placed on major political ideas in their historical context, ideas as Monarchism, Liberalism, Democracy, Socialism, Fascism, Anarchism, Conservatism etc

**POL 223: Foundations of Political Economy** **Credit Unit: 2**

The course introduces students to the study of the relationship between politics and economics. Economics or economic/material relations as determining factor in politics, class analysis and political power relations, production process and study of the material basis of political action.

**Required Courses**

**POL 213: Introduction to African Politics** **Credit Unit: 2**

The course focuses on the nature of African society before imperialism, establishment of colonial rule in Africa, different systems of colonial administration and economic policies, the



problem of neo-colonialism and dependency, contemporary issues in Africa – regional stability, law, economy, food security and education.

**POL 215: International Political System & Africa                      Credit Unit: 2**

The Africa's side to major issues in international politics with particular reference to the period since 1945; the cold war era and nonalignment, wars and politics of intervention or peace keeping operation, arms race and disarmament, New World economic order and Africa; international donors, politics of loans and aids, the role of Multinational and Transnational Organizations, the birth and aspirations of NEPAD and challenges of development within the global context.

**POL 224: Theory and Practice of Local Government                      Credit Unit: 2**

Theory, Principles and forms of local government, decentralization and its principles-deconcentration, delegation, devolution and privatization, issues in features, leadership/management, finance, function and local-central authorities relationship in comparative terms e.g. Nigeria, Britain, America and France.

### **300 LEVEL**

#### **Core Courses**

**POL 311: Logic and Methods of Political Inquiry                      Credit Unit: 2**

Political science and the scientific method, introduction to research methods in political inquiry, the nature of concepts, the place of theory, language of variables, hypotheses and generalizations in political science research, sources and methods of data collection and analysis in political inquiry.

**POL 312: Public Policy Analysis    Credit Unit: 2**

Defining policy and forms of policy, concepts and strategies of policy planning, programming and budgeting systems (PPBS), basic techniques of network construction and analysis examined descriptively and from the perspective of administrative systems, cost-effectiveness analysis and critique.

**POL 314 & 324: History of Political Thought I & II                      Credit Unit: 2**

Examination of selected medieval, classical and modern political thinkers such as; Plato Aristotle, Machiavelli, Locke, Marx, Fanon, Senghor, Nyerere, Nkruman, etc, with special emphasis on the germination and impacts of their ideas

**POL 321: Research Methods    Credit Unit: 2**

Forms of research, research problem formulation, research procedure/research design, relevance of research and fundamental problems in Social Science research

**POL 322: Political Behaviour    Credit Unit: 2**

The study and measurements of various determinants of political behaviour, political socialization, political culture, political participation and apathy, electoral behaviour, public opinion, and political communication

**POL 323: Comparative Federalism    Credit Unit: 2**

Conceptual analysis- federalism, federation and pluralism, forms of and reasons for federations, the genesis of the political dynamics of comparative federal system with particular

reference to intercontinental case studies such as Americas- U.S.A and Canada; Europe- Russia and Germany; Asia- India and Pakistan; Africa- Nigeria and Rwanda

**POL 325: Contemporary Political Analysis** **Credit Unit: 2**

Contending paradigms in contemporary political analysis, their philosophical and ideological roots, as well as evaluation: elite approach, group theory, functional systems and communications theory, basic concepts and elements of game theory and political gaming, structural analysis, theories of political development; the new political economy.

**Required Courses**

**POL 313: Politics of Development and Underdevelopment** **Credit Unit: 2**

A systematic and theoretical study of the political and socio-economic context of the problems of development and under-development, dependency and international cum internal economic structures; analysis of profound change; agents of change and constraints and problems contingent on rapid socio-economic change, with specific reference to post-colonial African states but also in comparison with Latin American and Asian countries, among others.

**POL 315: The Methodology of Comparative Politics** **Credit Unit: 2**

Comparative Political Analysis, History of Comparative Politics, Concepts, the scientific methods, and Logic of Comparative Social Inquiry, objectives of Comparative Inquiry, Approaches to the study of Comparative Politics i.e. single country approach, multi-country approach, and synchronic approach; Problems of Comparative Politics.

**POL 316: Theories of International Relations** **Credit Unit: 2**

An explicit examination of the basic concepts and theories that have been offered for the study of International Relations; issues like Power, Conflict and politics of accommodation; Systems Theories, Linkage Politics, the theories of Coalitions, and Alliances Models, Games and Simulation.

**POL 317: Theory and Practice of Administration** **Credit Unit: 2**

Evolution of Administrative Organizational Theory from the Classical through the Neo-classical to the Modern: Relations of administration to politics and the Political Process; administrative behaviour in various institutional settings, interplay of political institutions and administrative patterns of behaviour, study of personal administration decision making in bureaucratic organizations.

**POL 318: Foreign Policy Analysis** **Credit Unit: 2**

The various conceptions used in foreign policy analysis; transactional flows, the interplay of domestic and external factors, ideological and national interest considerations, and techniques of foreign policy, application of these concepts to the examination of foreign policies of major powers; United States, United Kingdom, Russia, France, China and the emerging powers such as India, Japan, Pakistan, Iran and Israel; as well as African States.

**POL 326: Theory and Practice of Marxism** **Credit Unit: 2**

The study of Marxism, the examination of dialectical materialism, class analysis, means and sources of production in society; an overview of revolutionary changes brought about by utilizing the Marxist- Leninist ideology, using the examples of USSR, China, Cuba, Vietnam etc.

**POL 327: Public Administration in Nigeria****Credit Unit: 2**

Ecology of Nigerian Public Administration, the Civil Service, field administration, Public Corporations, Politics of Financial Administration, reforms and challenges of administration in the 21<sup>st</sup> Century.

**POL 328: Issues in International Politics****Credit Unit: 2**

The study of conflict and peace building in International politics; strategies of war and arms control; organizations, ethnicity, race, religion, gender, liberation struggles, resources and building of an international order.

**400 LEVEL****Core Courses****POL 411: Civil-Military Relations****Credit Unit: 3**

Interdependence of civil and military types; the military in the foundation of states; impact of social structures and ethnic or class conflicts upon military organizational procedures and behaviours, the problem of civilian control of the military, the role of armies in revolution, the phenomenon and definition of the military- industrial complex, ubiquity of military extractive tendency; explaining the stability or instability of civil-military relations in a comparative setting.

**POL 412: Comparative Politics****Credit Unit: 3**

Logic of Comparison, Classification Systems in Comparative Politics; Case study approach competing paradigms or orientations in Comparative Political Analysis, the strategy of across-system theorizing, measurement problems in cross-national research.

A comparative analysis of government and politics based on selected area studies (such as Western Europe and North America; Communist Party States of Eastern Europe; Middle East and North Africa, South East Asia; Latin America).

**POL 421: Principles of International Law****Credit Unit: 3**

The nature, dynamics and sources of international law; sanctions, international personality, rights and duties of states and governments; territorial and criminal jurisdictions; state responsibility, treatment of aliens, diplomatic agents, privileges and immunities; extradition, Law of the Sea, the law of treaties and the impact of Afro-Asian states in contemporary international law.

**POL 422: Comparative Public Administration****Credit Unit: 3**

Comparative analysis of private large-scale organizations and public (state) administrative organizations; of public administration in federal and unitary states; of state bureaucracies and state parastatals, of public administration in selected countries among liberal democracies, communist systems and the Third World societies.

**POL 426: Research Project****Credit Unit: 6**

An original essay to be written by a student under the supervision of a member of the College, across a maximum period of two semesters

## **Required Courses**

### **POL 413: Development Administration**

**Credit Unit: 2**

Theories of development, forms, procedure and techniques for development of urban centers, the problems involved in the planning and execution of major services in urban political systems, and an examination of the structure of political power operating in such systems.

### **POL 414: Politics of Globalization**

**Credit Unit: 2**

Conceptual clarification; evolution and trends of globalization; new globalization and the World stability (conflict, war, economic cum technological disadvantages); globalization, the State and economy in Africa

### **POL 415: Theories of the State**

**Credit Unit: 2**

Conceptualization of the state and forms of government, theories and accounts of the origin or developments of the state; social contract theories and the modern state; the liberal democratic state and its presuppositions; Marxist theories of the capitalist state; state as focus of analysis in political studies.

### **POL 416: Nigerian Foreign Policy**

**Credit Unit: 2**

A study of dominant trends in Nigeria foreign policy since independence, showing both the domestic setting and the international environment; issues during civilian and military regimes; the effects of the civil war on Nigeria's foreign policy; the changing pattern of Nigeria's non-aligned policy; problems of foreign policy making since 1976 and Nigeria's pan-African role; Nigeria's relative economic status and commitments as a regional power in Africa, and problems of relating with immediate neighbors.

### **POL 417: International Organizations**

**Credit Unit: 2**

Historical evolution of international institutions from the turn of 19<sup>th</sup> Century to the present, the notion of international organizations and their various classifications: International Organizations- League of Nations, United Nations Organization, The United Nations; Trans-national organizations (governmental and non-governmental); regional organizations (governmental and non-governmental); sub-regional groupings based on political, trade/economic, military, socio-cultural or ideological alliances.

### **POL 418: Issues in Political Philosophy**

**Credit Unit: 2**

The nature of conceptual analysis in political philosophy; issues arising from the conceptions of political terms such as power, authority, rights, obligation, liberty, sovereignty, state etc; Philosophy and Theory; Philosophy and Science; Theory and Practice of Political Philosophy.

### **POL 423: African Political Thoughts**

**Credit Unit: 2**

Traditional political ideas; concepts of authority, order and the polity; thoughts in Pan Africanism; Contemporary African Political thinkers like Nkrumah, Fanon, Nyerere, Senghor, Cabral, Ake, Rodney etc; Concepts like African Socialism, humanism and authenticity.

### **POL 424: Nigerian Local Government System**

**Credit Unit: 2**

The evolution of Nigerian local government- the pre-colonial and colonial administrative system, the post-independence development; the role of the Military and the historic reforms (1976, 1989 1995) ; contemporary local government administration in Nigeria- functions, funding and problems

**POL 425: Political Parties and Pressure Groups**

**Credit Unit: 2**

Conceptual handles- Political parties, pressure groups; party systems, regime types and impact of political culture; theories, methods and forms of pressure groups; civil society and democracy.

**DEGREE PROGRAMME IN SOCIOLOGY AND ANTHROPOLOGY**  
(Based on Benchmark Minimum Academic Standards)  
**DEGREE IN VIEW: B.Sc. SOCIOLOGY**

**PHILOSOPHY, AIMS AND OBJECTIVES OF PROGRAMME**

The philosophy underlying the sociology degree programme is to produce a crop of graduates equipped with appropriate knowledge to make their contribution to the development of Nigeria, Africa and the global community, having been exposed to a broad foundation of knowledge in the field of social sciences in general and the various sub-field of sociology in particular.

**1. Short History of the Department**

The Department of sociology and Anthropology is one of the eight Departments recognized as part of the College of Arts and Social Science which shall be awarding the Bachelor of Arts (BA) and Bachelor of Science, Honours Degree and higher Degrees as specified in the *Handbook of General information and prospectus for 2003/2004* of Igbinedion University, Okada.

It began in 2003/2004 session with a lecturer and later a professor. The Department had no core students, so the staff was deployed into the teaching of Sociology and Psychology courses in other Department that offer sociology and psychology courses as electives, such as: Law, Political science, Economics, Mass communication, Business Administration ,International Relations. The Department then looked forward to 2004-2005 session with the hope yielding its first set of core students in 2004/05 academic session.

**2. Aims and Objective**

The Department of sociology and anthropology is double-barreled as the name indicates and It tends to be so in its philosophy and approach in order to retain the most excellent traditions of these two disciplines which, in western European racist culture of the 19<sup>th</sup> -20<sup>th</sup>centuries, developed as separate discipline. During this period, European scholars classified human culture and society into two: sociology, which deals with advanced society and Anthropology, which deals with primitive society.

By the beginning of 1950, it gradually dawned on Western scholars that the study of advanced society and primitive society employs the use of the same concepts and theories derived from human ecology, culture and society .The formulation of the same concepts and theories confirms the equality of human experience and the universality of the human mind irrespective of biological difference such as skin colour.

The banishment of racist's subjective intrusions which separated the disciplines of Sociology and Anthropology resulted in the amalgamation of the discipline which took different formats like using Department of Sociology and Anthropology, or the retention of former name with an increase in the course content, such as the Department of sociology increasing their Anthropology course content and the Department of Anthropology increasing its Sociology course content.

We in Africa welcomed the objective release of the two disciplines from the chains of racism impose on the West European tradition especially in Britain and the USA. Since Africa is objectively classified as a developing continent with a continuum of diverse cultural and social characteristics, the bringing together of the two disciplines has an enabling theoretical advantage: it helps scholars to have a holistic and humane view of human cultures and societies and its dynamic aspect in the evolutionary continuum .For example ,the concept of family ,child ,father ,mother ,lineage ,kinship and the theories of functionalism, evolutionism, symbolic interactionism are applicable to understanding all human

cultures and societies. This gives room for meaningful comparative analysis and systematic elucidation of other cultural social, ecological and technological variables.

Hence, Igbinedion University Okada, has adopted the double-barrel nomenclature: the Department of Sociology and Anthropology to keep a balance with the new trend by adopting the four dimensional teaching and research approach: the theoretical, the practical, the ethnographic and the methodological approaches African cultures and societies including the cultures of Nigeria, Edo and their neighbour, Benin and its sub-culture of Okada shall be the central focus, while we will extend the horizon of our humanistic and scientific studies into other cultures and societies of the world-Europe, South East Asia, the Americas and the Island of the pacific.

The issues of globalization and international mass communication shall be culturally and socially examined in terms of African and Nigerian responses to them. The programme is designed to attract and stimulate scholarship among students in other departments, such as Humanities, Social Sciences, Education, Law, Medicine and Science by making them view through the broad window of the discipline of Sociology and Anthropology the widest panorama of human cultures and societies. Students are offered the rare opportunity of enter doing a combined Honours degree in Anthropology and Sociology with other discipline or combine some relevant course(s) in Anthropology and Sociology with their major discipline.

### **3. Admission Requirement for the Four-Year programme**

- (i) Candidates for admission into the four-year degree programme (B.A. Sociology and Anthropology) should possess a Senior Secondary Certificate or General Certificate of Education or their equivalents with at least five CREDIT passes which should include English language and Mathematics with two additional social science subjects obtained in not more than two sitting.
- (ii) Acceptable passes in the Joint Admission matriculation Examination (JAMB) must be in the following areas:
  - (a) Use of English
  - (b) Any two social science subjects (Government, Geography, Economics, Commerce, History, Agricultural science); and  
Any other subject, other than those in (b) above.
- (iii) Candidates with a T.C.II must have at least five MERIT passes including English language and Mathematics. The other 3 subject will be as started in (ii)(b) and (c) above.

### **4. General Admission Requirement for the Three Year Programme(Or Direct Entry)**

- (i) Requirement as in A (i) above plus passes in at least two subject at the G.C.E. (A/L) or H.S.C. including one social science subject.  
OR
- (ii) At least MERIT passes in TWO N.C.E teaching subjects plus THREE other credit passes in G.C.E. (OL) or W.A.S.C. These five subjects must include English Language and Mathematics, in not more than two sittings.  
OR
- (iii) At least a credit pass at Diploma in social works (DSW) plus five credit passes which must include English language and Mathematics in G.C.E.(O/L) or W.A.S.C. obtained at not more than two sittings.  
OR
- (iv) At least a B+ average in related fields in an O.N.D. certificate plus five credit passes including English language and Mathematics in not more than two sitting.  
OR

- (v) H.N.D. in any science subject.

However, the University also reserves the right to further screen all the students for admission by oral interview or examination. This is for both intellectual and moral standing.

### **5. Degree Programme and Course requirements**

The Department offers a four-year programme leading to the award of B.Sc Single Honours in Sociology and Anthropology or a combined honours degree in combination with another discipline. Combined Honours specialization begins in the third year when the student takes half of the compulsory courses in Sociology and Anthropology and the other half in the combining discipline.

For the purpose of the minimum standard in social sciences, the courses are categorized into two:

\*Core (compulsory) course must take and passed by all students before they can be awarded a Degree.

\*Elective courses will consist of a wide variety of courses from which students must select a given number which they must pass before they can be awarded a degree. Such would be additional and/or advanced courses that would not be required of all students but from those specialization in such group.

Most of the elective courses however would be outside the compulsory/required subject areas and could be from within or outside the Department and/or from within or outside the faculty.

### **6. Teaching and Research Facilities**

The Department shall try and build up its physical anthropology and archaeology laboratory. Since research in Sociology and Anthropology is predicated on fieldwork both staff and students are encouraged to engage in field research within and outside the University community: in institutions, organizations and society at large. Students use the immediate environment for fieldwork practicum in methods course and the final year students are required to write a dissertation based on fieldwork conducted preferably in their home area.

Research activities of the teaching staff are varied and rich covering the varieties of specialization of the academic staff. These areas include population, military sociology, health, women studies, archaeology, rural and urban development, social organization, ethnography, theory and methodology, social psychology, criminology.

### **7. Students Organization and Publications**

The Department the Nigerian Student Sociology and Anthropological Association (NSASA) of which every student in the Department is a member. The Association will publish the journal, Social Anthropologist run entirely by the students. Additionally, all students are expected to be members of the Uni-Igbinedion Students' Union and National Association of Nigeria students.



**100 LEVEL FIRST SEMESTER**

S/N	CODE	COURSE TITLE	STATUS	UNIT
1	SAA 111	Introduction to sociology	C	2
2	SAA 112	Introduction to Anthropology	C	2
3	SAA 113	Elements of scientific thought 1	C	2
		<i>Two electives from within and outside the college in the 1<sup>st</sup> semester</i>	E	4
	<b>TOTAL</b>			

**SECOND SEMESTER**

1	SAA 121	Introduction to sociology 11	C	2
2	SAA 123	Elements of scientific thought 11	C	2
3	SAA 125	Ethnography of Nigeria (introduction to Africa societies and culture)	C	2
4	SAA 126	Introduction to psychology	C	2
		<i>One elective from and outside the college general students</i>	E	2

**200LEVEL****FIRST SEMESTER**

S/N	CODE	COURSE TITLE	STATUS	UNIT
1	SAA 212	Social statistics	C	2
2	SAA 213	Social change 1	C	2
3	SAA 214	History of social thought 1	C	2
4	SAA 219	Social psychology 1	C	2

*Two electives from the following*

1	SAA 215	Sociology of mass communication	E	2
2	SAA 218	Women in society	E	2
3	SAA 217	Sociology of education	E	2

**TOTAL****SECOND SEMESTER**

1	SAA 221	History of social thought II	C	2
2	SAA 222	Element of psychology and social	C	2
3	SAA 223	psychology	C	2
4	SAA 224	Social change II	C	2
5	SAA 225	Structure of Nigerian society Sociology of marriage and the	C	2

family

*Two electives courses from the department*

<b>1</b>	SAA 226	Language in society and culture	<b>E</b>	<b>2</b>
<b>2</b>	SAA 227	Gender issues and society	<b>E</b>	<b>2</b>
<b>3</b>	SAA 228	The military and the state	<b>E</b>	<b>2</b>

*Any other two electives outside the department*

**TOTAL**

**300 LEVEL****FIRST SEMESTER**

S/N	CODE	COURSE TITLE	STATUS	UNIT
1	SAA 311	Research methods in Anthropology	C	2
2	SAA 312	Sociology inequalities	C	2
3	SAA 313	Sociology of crime and Delinquency	C	2
4	SAA 314	Advanced social psychology	C	2
5	SAA 316	Intergroup relations(Race &Ethnic diversity)	C	2

***Two electives from the following***

1	SAA 315	The Genetics of Human Varieties and Diversities	E	2
2	SAA 317	Social stratification and mobility	E	2
3	SAA 318	Sociology of law	E	2
4	SAA 320	Sociology of urban life	E	2

***One elective outside the department*****TOTAL****E 2****SECOND SEMESTER**

1	SAA 312	Research methods in sociology	C	2
2	SAA 323	Political sociology	C	2
3	SAA 324	Sociology of crime and delinquency	C	2
4	SAA 325	Sociology theories	C	2
5	SAA 326	Sociology of organization	C	2

***Two electives from the following***

1	SAA 328	Rural sociology	E	2
2	SAA 329	Sociology of health illness relations	E	2
3	SAA 331	Population of studies	E	2

**TOTAL**

400 LEVEL		FIRST SEMESTER		
S/N	CODE	COURSE TITLE	STATUS	UNIT
1	SAA 411	Research project / original Essay	C	2
2	SAA 412	Anthropological theories	C	2
3	SAA 413	Demography	C	2
4	SAA 415	Urbanization and labour migration 1	C	2
5	SAA 417	Sociology of Development	C	2
6	SAA 418	Industrial sociology	C	2

**TOTAL**

*Two electives from the Department*

1	SAA 414	Labour relations	E	2
2	SAA 416	Sub – Sahara Africa	E	2
3	SAA 419	Sociology of Deviant Behaviour	E	2

**TOTAL**

**SECOND SEMESTER**

1	SAA 421	Anthropological theories	C	2
2	SAA 424	Culture and communication	C	2
3	SAA 422	Regional Ethnography (Small & complex societies)	C	2
4	SAA 434	Models in sociological Analysis	C	2

**TOTAL**

**COURSE DISCRPTION**

**SAA 111/121: *Introduction to sociology***

Introduction analysis and description of social structure and dynamics of human society.

Field of sociology. Sociology and other social sciences. Basic concepts and principles of sociology.

**SAA 112: *Introduction of African Social Anthropology***

Introduction to and survey of human origins and cultural achievements.

Social Anthropology: historical, theoretical and methodological perspectives.

**SAA 113: *Introduction to African societies and cultures.***

The study and criticism of ethnographic descriptions of African societies. People and their cultures, both as scientific reporting and as literacy art from survey African societies and cultures in a contemporary settings. The cultural regions, social organisations. languages polity, economy and world news.

**SAA 123: *Elements of scientific thought***

Humanistic science; evolutionary theories. The 19<sup>th</sup> century golden age of European science. Mathematics in social science. The nature of human mind: the computer era. Scientific thinking and development. globalization.

**SAA 125: *Ethnography of Nigeria***

Ethnographic survey of the main societies in Nigeria and their associated cultures with special attention to their geographical distribution philosophy, language, religion and world view. Major and majority groups Yoruba, Hausa, Igbo, Urhobo, Edo, Ijaw, Ibibio, Ithikiri, Fulani, Tiv and Jukun etc.

**SAA 126: *Introduction to psychology***

Introduction to the relationship between the functioning of social systems and behaviour and attitude of individuals. The biological bases behaviour, the development of behaviour, clinical approaches to personality psychological factors in social living.

**SAA 211: *Advanced elements of sociology and Anthropology***

History of sociology and anthropology as separate disciplines and as one discipline kinship and marriage, lineage systems, age-grade systems, death, and inheritance status and roles, economics systems, religious systems, political systems, sciences and technology, witchcraft, sorcery and magic.

**SAA 212: *Social statistics***

Role of statistics in social science inquiry, nature of measurement, presentation of data ,central values, measures of deviation, correlation, nature of sampling probabilities and normal distribution ,inference, hypothesis testing ,test of significance.

**SAA 213: *Social change***

Theoretical perspectives on social change. Institutional analysis of phenomenon of social change. Theories of social problems resulting from social change. The alternations of society overtime.

**SAA 214/221: *History of social thought I & II***

An introduction to the main contribution to social thought like Ibn Khaldun, comte, weber, max, durkheim, Radcliffe-brown and to the rise and development of modern sociology and anthropology. A critical discussion and assessment of social thought in African and other parts of the world with emphasis on the origin of sociology and anthropology.

**SAA 222: *Elements of psychology and social psychology***

A basic course dealing with the interplay between the person and his environment. Review of such issues as development of human personality through socialization, social perception, motivation and learning role playing and small group interaction , attitude formation and change, norms and social influences, human conflict and collectives behaviour.

**SAA 223: *Socio-linguistics***

Language will be studied as an aspect of human behaviour culture. The emphasis will be on language as symbol, and as a system and social context of language as well as its usage in the study of sociological problems.

**SAA 224: *Structure of the Nigerian society***

Social characteristics of contemporary Nigerian societies, new social groupings in urban communities. Migration patterns and social mobility, social classes and social inequalities, social problems and social welfare, ethnicity and changing family structures.

## **ELECTIVES**

### **SAA 215: *Sociology of mass communication***

The course provides some basic foundation for the study of human of human communication. It is designed to and students to understand the nature and functions and concepts of the mass media and their institutions. The theoretical, conceptual and evaluative aspects of human communication will be examined, also considered are the implications of the growth of mass media institutions the way they shape views, modify behaviour and help to fashion society.

### **SAA 216: *Sociology of marriage and the family***

Analysis of the principles of kinship classification and the types and functions of groups formed on those principles .study of marriage as a social institution and the family as a source of socialization and child care.

### **SAA 217: *Sociology of knowledge, science and technology***

Social determination of knowledge. Examination of science and technology as social and cultural institutions. Similarities and difference between scientific modes of thinking and those of governing other human activities .Technology and development processes. Knowledge systems which govern cumulative technology. Science and technology and cultural convergence.

### **SAA 218: *Women in society***

An introduction to women studies survey of traditional and contemporary attitudes of male-centered societies to women; factors shaping these attitudes. Public issues on women.

### **SAA 225: *Sociology of education***

Education as social institution and social process. The role of education in social stability and change. A comparison between various educational systems. Education and African social and cultural development; the politics of education.

### **SAA 226: *Archaeological Development of culture, society and technology***

Outline the development of material culture and human society as exemplified by archaeological and ethnographic data from the Paleolithic age through the Neolithic and from age to present.

### **SAA 227: *Peoples and cultures of Africa***

The study and criticism of ethnographic description of African societies, people and their culture both as scientific reporting and as a literary arty form. Emphasis will be on the comparative and contrasting analysis of kinship, marriage, local grouping economic, political and religion.

### **SAA 311/322: *Research methods in sociology and Anthropology I & II***

Formulation of social issues as research questions. General concepts concerning scientific methods, technique of data collection and analysis strategies of descriptive and historical research, tools of research, various types, methods and advantage and disadvantages.

### **SAA 312: *Social inequality***

Analysis of forms and functions social inequality theories concerning the origins, persistence and consequences of social systems of stratification. Types of social mobility and their impact on stratified structures, social inequality and social probability Nigeria.

**SAA 313/324: *The sociology of crime and delinquency (criminology I & II)***

The study of theories and explanations of criminology deviance causes of crime and factors favorable to criminality. The complication uses and limitations of crime statistics, topology of criminal behaviour, the development of criminal careers, society's reaction to treatment of criminal and juvenile delinquents and measures of crime and delinquency prevention.

**SAA 314/325: *Social -psychology I & II***

Socialization, social learning, internalization, conscience formation; values and attitudes, prejudices and discrimination; stereotypes; development and change of attitudes; social movements.

**SAA 315: *The Genetics of Human variation and diversity***

The course will use the biometrical and mendelian approaches to the study of human variations and the ' nature- nurture' problems and how genes cause variation in human population. Factors influencing genetic change; mutation, drift, selection, evolution, population, structure, inbreeding, migration and mating system will be considered.

**SAA 316: *Race and ethnic relations (inter-group relations)***

This course is organized around three perspectives: white racism ,the verbal and metaphorical stereotyping of blacks and other sub-dominant, dominant groups institutional racism, colonialism and racism. Tribalism, ethnicity, nationalities, meaning and problems of terminology.

**SAA 317: *Social stratification and mobility***

An examination of the theoretical models of stratification systems. the course attempts a comparative analysis of the stratification processes and social mobility in industrial and developing societies with special reference to Africa.

**SAA 318: *Sociology law***

A sociological treatment of the social origins and consequences of law and legal processes. The study of law as a special institution including consideration of the social uniqueness of its features and functions through comparison with other institutions and societies. The traditional African legal cultures and their contemporary relevance. Law and society, law and the economy, law and cultural process.

**SAA 320: *Sociology of urban life***

The city as a form of organization; western and non-western cities. theories, types and structure of the city. The changing city in a changing society. Theories and economics of labor migration.

**SAA 321: *Methods for social research***

Formulation of social issues as research questions. General concepts concerning scientific methods. Stratifies of descriptive research and horizontal research. Tools of research ,various types, methods and their advantages and disadvantages.

**SAA 323: *Political sociology***

The notion of politics and power in sociological writings including aspects of the social and economics bases of the political order and their relationship to ideology. The nature of political cultures, the processes of political socialization, political parties, pressure groups, participation of elite groups and the development of movement for political change.

**SAA 326: *Sociology organization***

Survey of theoretical and empirical analysis of complex organization. Structural properties of organizations and their consequences. bureaucracies and complex relationship among organization in the community. Major theoretical and methodological problems and problems of formal organization in the new states.

**SAA 328: *Rural sociology***

The fundamental features of rural societies, their ecological systems and patterns of transformation. The identification, evaluation and utilization of nature and human resources. Social change in rural societies. Rural social in rural societies. rural social institution and their adaption to change.

**SAA 329: *Sociology of health and illness behaviour***

An introduction to concepts and social aspects of health, illness and curing in different African societies with particular reference to the Nigerian society. Interaction between folk and modern medicine. The delivery of health as a social problem.

**SAA 330: *Sociology of religion***

An examination of theories of the origins and sources of religion, the function of religion institution in societies, the societies , the relationship between religion and society in relatively stable small communities, the approaches of social anthropology of African religion, the rise of new religions movements and reformed movements, the place of religion in modernized complex and cities religion leaders and leadership, religious conflicts and religion and social change.

**SAA 411: *Research project/original essay***

A piece of original researched essay in sociology and Anthropology conducted under supervision of a member of staff.

**SAA 412/421: *Sociological and Anthropological theories I & II***

An examination of the issues and problems relating to dominant system of contemporary sociological theory including evolutionism, functionalism, structuralism, symbolic interactionism etc. Application of these theories to contemporary problems.

**SAA 413: *Demographic Analyses***

The nature and development of population studies. Its scope and method. Some basic concepts of population analysis , international comparison of population growth problems of population in Africa and issues of population policy.

**SAA 414: *Sociology of the third world***

Decolonization and the emergence of the third world. The characteristics of third world. People and their cultural profiles. The north-south interaction and the conflicts.

**SAA 415/423: *Urbanization and labor migration I***

The city as a form of organization; western and non-western cities. Theories ,types and structure of city. Urbanization in Nigeria. Migration and Urbanization policies in Africa .rural development.

**SAA 416: *Sub-Sahara Africa***

History and social structure of selected states-Egypt, North Africa, West African, Congo, east Africa, central Africa South Africa.



**SAA 417/425: *Sociology of development***

Theories of development and its relations to growth. Sociological implications of development and its effects on society and family structure. The impact of colonial policies on post - independence internal conditions.

**SAA418: *Industrial sociology***

The structure and functions of industrial organization and their relation to society from a cross-cultural perspective. The evolution of management philosophies. Social relations in the workplace, industrial conflicts trade unionism and industrial relations.

**SAA 419: *Sociology of deviant behaviour***

The course will focus on the native, definition and sociological aspects of deviant behaviour and society's response to it. areas to be covered will include types of deviancy, anomic theory, social control agencies, processes and institution.

**SAA 422: *Regional ethnography (small scale and complex societies)***

Small scale and complex societies are examined from the point of the universals and variation in human societies. The central focus includes problems of ethnicity technological innovation and socio-cultural change, the social anthropology industry, the scope and nature of industrial organization and the influence of technological factors on social patterns.

**SAA 424: *Culture and communication***

An examination of human communication from the perspectives of linguistics anthropology. A treatment of social structure and socio-structural behaviour as essentially communicative phenomena.

**SAA 434: *Models in sociological analysis***

The course is built around two completer issues:

- (a) What type of explanations are used in sociology and
- (b) What type of data are used in constructing explanations in sociology? The main is to provide the student with the ability to evaluate a sociologist's approach to any empirical area from two points (i) is the chosen model of explanation adequate and (ii) is the purported explanation adequate in terms of chosen models?

**ACADEMIC STAFF AVAILABLE FOR THE PROGRAMMES  
LIST OF TEACHING AND RESEARCH STAFF**

<b>NAME</b>	<b>SPECIALIZATION</b>	<b>DISCIPLINE</b>	<b>QUALIFICATION</b>	<b>RANK</b>
<b>Prof. Sylva. O. Osemwenkha</b>	Medical sociology	Sociology	BSc, MSc, PhD	Professor
<b>Sr. Dr. Pauline Aliqwekwe</b>	Anthropology	Anthropology	BSc, MSc, PhD	Snr. Lecturer
<b>Dr. O. D. Popoola</b>	Social / Personality Psychology	Psychology	BSc, MSc ,PhD	Lecturer II
<b>Dr. F. I. Etadon</b>	Industrial Education	Education	BSc, MSc ,PhD	Lecturer II
<b>E. O. Bello</b>	Industrial Sociology	Sociology	BSc, MSc	Asst. Lecturer
<b>A. Olorunlana</b>	Medical Sociology	Sociology	BSc ,MSc	Asst. Lecturer

**DEPARTMENT OF THEATRE ARTS  
B. A. Theatre Arts Programme**

## **This Curriculum is designed to**

Provide students a unique opportunity for a functional and most relevant art in this century. It is also designed with the pace setting roles of Igbinedion University in mind. With this in mind, the curriculum is designed to enable students to gain expertise in various areas of the theatre as well as grounding in liberal education through exposure to study areas as:

1. General Studies
2. Compulsory core-courses
3. Elective courses

The recommended areas of study for elective courses include:

- i. Mass communication
- ii. Sociology
- iii. English
- iv. Political Science

## **PHILOSOPHY**

Theatre Arts as an academic discipline and profession is concerned with unraveling the mysteries of life. Through man's conflictual relationship with his fellow man, basic issues that deal with the entire human existence are explored and finally resolved. Theatre is an indispensable vehicle for merging the individual with the whole. It reflects man's innate capacity for association and sharing of ideas and experiences. As academicians, students are made to understand theatre theories to enable them match these theories, philosophies and movements with theatre practice. The B.A. programme aims at completely foregrounding students in the old and nascent study and practice over the ages.

## **VISION AND MISSION**

The major vision and mission of our department is to produce graduates who would effectively and efficiently work in the Media and Theatre agencies, cultural establishments, creative institutions, fashion design outfits, industrial companies and film production outfits.

Our vision is also to professionally incubate potential employers of labour and not mere employers as is the case in many universities in Nigeria.

To ensure this, our curriculum has been designed to expose students to the arts of the Theatre with a perfect blend of theory and practice.

## **BROAD AREAS OF THEATRE ARTS**

1. Theatre History
2. Media Arts/Film Studies
3. Directing(for stage and the electronic media)
4. Acting
5. Dramatic Theory and Criticism
6. Theatre Design and Administration
7. Costume and Make-Up
8. Music, Dance and Choreography

## **AIMS AND OBJECTIVES OF THE DEPARTMENT OF THEATRE ARTS**

- a) To equip students with a good knowledge of the main Principles of the theory and practice of Theatre Arts.
- b) To train students in the arts of the stage and Creative Sights.

- c) To prepare them for further studies in the discipline or prepare them for relevant careers in management, administration teaching, broadcasting, cultural centres.

## DEGREE PROGRAMES OF THE DEPARTMENT

The department of Theatre Arts offers just one programme; B.A (Hons) Theatre Arts.

## ADMISSION REQUIREMENTS

Candidates are admitted into the B.A. Degree programmes of the Department in any of the following three ways – through University Matriculation Examination (UME), by Direct Entry, or through Inter-University Transfer.

### (1) University Matriculation Examination (UME) Entry Mode:

Five O'level credit passes which will include English Language, English Literature and three other subjects in Arts, Social Sciences and or Science at not more than two sittings will be required. Holders of NECO, NABTEC or their equivalent are also eligible to apply.

### (2) Direct Entry Mode:

Two A'level passes in Arts or Science or Social Science subjects will be required. Diploma from relevant courses from recognized institutions will be accepted. NCE passes in relevant subjects as well as IJAMB will also be accepted.

### (3) Inter – University Transfer

Candidates wishing to transfer into the Department from another University must have:

- i. Obtained and filled the Inter – University Transfer form from the University Admissions Office.
- ii. Satisfied the Departmental minimum academic standard required for such level.

## OFFERINGS

\* Compulsory electives

\*\* Optional electives

### 100 Level

First Semester

Course Code	Course Title	Credits
THA 111	Traditional African Theatre	2
THA 112	Introduction to Drama & Theatre	2
THA 113	Introduction to Theatre Practice 1	3
THA 114	Theatre History 1: Greeks to European	2
THA 115	Basic Communication Theory	2
THA 116	Practical Participation Orientation	2
CMP 113	Introduction to Computer	2
GST 111	Communication in English 1	2
GST 112	Logic Philosophy and Human Existence	2
GST 113	Nigerian Peoples and Culture	2
**	Two electives within the college	4
	Total	25

### 2<sup>nd</sup> Semester

THA 121	Introduction to Theatre Design & Organization	2
THA 122	Voice and Speech	2

THA 123	Theatre Arts Practice	3
THA 124	Theatre History 11 Oriental & Africa	2
THA 125	Introduction to Radio and Television	2
CMP.123	Application of Computer to Arts	2
GST 121	Use of Library, Study Skills and ICT	2
GST 122	Communication in English 11	2
GST 123	Communication in French	2
**	Two electives within the college	4
	Total	21

### 200 Level

#### 1<sup>st</sup> Semester

THA 211	African Drama & Theatre: The Colonial Era	2
THA 212*	History of Drama & the Theatre: Renaissance to Modern	2
THA 213	Introduction to Dramatic literature & Criticism	2
THA 214	Introduction to directing	3
THA 215	Basic Speech Arts and Acting Techniques	2
THA 216	Technical Theatre & Scene Design	2
THA 217	Intro to Theatre Admin. & Studio Mgt.	2
THA 218	Fundamentals of Playwriting	2
THA 219	Introduction to Dance & Music Theatre I	2
GST 211	History and Philosophy of Science	2
	Total	21

#### 2<sup>nd</sup> Semester

THA 221	Arts of the Theatre	2
THA 222	Community Theatre	2
THA 223	Children's Theatre/Puppetry	2
THA 224	Introduction to Dramatic Genres: Tragedy & Comedy	2
THA 225	Principles of Broadcasting	2
THA 226	Technical Theatre & Scene Design	2
THA 227	Theatre Admin. & Studio Mgt.	2
THA 228	Theatre workshop	3
THA 229	Introduction to Dance & Music II	2
GST 221	Peace Studies and Conflict Resolution	2
EPS 221	Entrepreneurial Studies	2
CSP 221	Community Service Programme	0
THA 231	Industrial Attachment	2
	Total	25

### 300 Level

#### 1<sup>st</sup> Semester

THA 311	Modern African Drama & Theatre	3
THA 312	Play Appreciation & Theatre criticism	3
THA 313	Research Methods in Theatre Arts	3
THA 314	Black American Theatre & Drama in the Diaspora	3
EPS 311	Entrepreneurial Skills	2

#### ELECTIVE COURSES (CHOOSE TWO)

THA 315	Acting	3
THA 316	Theatre Administration and Scenography I	3

THA 317	Directing	3
THA 318	Media Arts Studies 1	3
THA 319	Dance & Music theatre 1	3
THA 331	Educational Theatre & Children Theatre 1	3
	Total	20

## 2<sup>nd</sup> Semester

### Core Courses

THA 321	Theatre in Africa: A Guided field Study	3
THA 322	Popular Theatre/ Theatre for Development	3
THA 323	Author Study	3
THA 324	Production Workshop	3
THA 332	Industrial Attachment	2

### ELECTIVE COURSES (CHOOSE TWO)

THA 325	Acting II	3
THA 326	Costume and Makeup	3
THA 327	Directing II	3
THA 328	Media Arts: Radio, TV, Video, Film & Folk Media II	
THA 329	Dance & Music Theatre II	3
THA 341	Educational Theatre & Children Theatre II	3
	Total	20

## 400 level

### 1<sup>st</sup> Semester

#### Core Courses

THA 411	Dramatic Theory and Criticism	3
THA 412	Sociology of Drama and Theatre	3
THA 413	Philosophy and Aesthetic of Theatre I	3
THA 414	Workshop Ensemble	3

### ELECTIVE COURSE (CHOOSE TWO)

THA 415	Advanced Acting	3
THA 416	Theatre Administration and Sceneography	3
THA 417	Advanced Directing	3
THA 418	Sociology of the Media, Film, Radio, TV & their attributes I	3
THA 419	Advanced Dance and Music Theatre I	3
THA 431	Playwriting and Theatre Criticism I	3
	Total	18

## 2<sup>nd</sup> Semester

### Core Courses

THA 421	Topics in Theatre Studies	3
THA 422	Sociology of Drama and Theatre II	3
THA 423	Philosophy and Aesthetic of Theatre II	3
THA 424	Workshop Ensemble II	3
THA 442	Long Essay	6

### ELECTIVE COURSES (CHOOSE TWO)

THA 425	Advanced Acting	3
THA 426	Scenography, Costume Construction & Make Up II	3
THA 427	Advanced Directing	3
THA 428	Sociology of Media Arts II	3
THA 429	Advanced Dance and Music Theatre II	3
THA 441	Playwriting and Theatre Criticism II	3
	Total	24

## **COURSE DESCRIPTION**

### **100 LEVEL**

#### **THA 111: Traditional African Religion (2 credits) 1st Semester.**

This course is designed to introduce students to the study of the Traditional African Theatre as a non-written drama discipline in various African communities and as a form of theatre evolving from the festival in its various contexts and settings.

#### **THA 112: Introduction to Drama and Theatre (2 credits) 1st Semester.**

This is an introductory course, which explains the fundamental distinctions between “theatre” and “drama” as theoretical and practical concepts, revealing their interrelatedness. It seeks further to explore the distinct forms of the two concepts while using specific text to illustrate their ensemble nature.

#### **THA 113: Introduction to Theatre Practice (3 credits) 1st Semester.**

This course is an introductory course to the performance, composition and production aspects of drama, dance, and music, oral and decorative arts. This course is preparatory to the practical aspects in the second semester.

#### **THA114: Theatre History I: Greeks to European (2 credits) 1st Semester.**

This course emphasizes the history, the growth and development of theatre and its practices from ritual, oral and written tradition from the Greeks to the European times. Effort would be made to study the various contexts and texts focusing on conditions of theatrical performance, concepts of stage house, play and with the view to focusing attention on the social conventions that realized them

#### **THA 115: Basic Communication Theory (2 credits) 1st Semester.**

This course is designed to introduce students to the rudiments of the Media Arts. It will also do a survey of the History, growth and development of the Media industry with emphasis on print, radio, television, film and folk media.

#### **THA 116: Practical Participation Orientation (2 Credits) 1st Semester**

This course is designed to involve the students in practical participation that would lead to a major production.

#### **CMP 113: Introduction to computer (2 credits) I<sup>st</sup> semester**

This course is a basic introduction to the use of computer. The study would include the evolution and generation of computers, the types of computers and the different environments of computer.

#### **THA 121: Introduction to Theatre Design and Organization (2 31credits) 2<sup>nd</sup> semester**

This course is designed to continue the study of the theatre forms of architecture and organization approaches from the medieval period to the present day. Effort would be made to concentrate on the peculiarities of the various types from specific ages.

**THA 122: Voice and Speech (2 credits) 2<sup>nd</sup> Semester**

This course introduces students to phonetics with specific reference to the consonant and consonant clusters. Speech organs would be studied in relation to the production of consonants. These consonants would be classified in accordance with their places and manner of articulation. Phonetic transcription will be used and practiced intensively in words and phrases that are made up of both vowels and consonants.

**THA 123: Theatre Practice (3Credits) 2<sup>nd</sup> Semester**

This course is the practical aspect of the THA 113. Students would be expected to compose, perform any of their artistic compositions developed in the course of the study.

**THA124: Theatre History II: Oriental and Africa (2 Credits) 2<sup>nd</sup> Semester**

This course emphasizes the history, the growth and development of theatre and its practices from ritual, oral and written tradition from the Oriental to Africa. Efforts would be made to study the various contexts of stage house, play and with the view of focusing attention on the social convention that realized them.

**THA 125 Introduction to Radio/Television (2 Credits) 2<sup>nd</sup> Semester**

This course is designed to introduce the students to the basic functions of Radio and Television. The students will also be exposed to the principles and practice of Broadcasting. On completion of this course, the student should among other things, know the history and origin of Radio/Television Broadcasting and understand the basic equipment used in broadcasting. The student will also understand the places of programming, news production and presentation and advertising in the broadcast triangle

**CMP 123: Application of Computer to Arts (2 Credits) 2<sup>nd</sup> Semester**

This course is designed to acquaint students on the different ways computer could be used in the course of the theatre profession. Students are expected to utilize the knowledge acquired in this course in the execution of their assignments and other aspects of the theatre.

**200 LEVEL**

**THA 211: African Drama and Theatre: The Colonial Era. (2 credits) 1<sup>st</sup> Semester.**

This is a study of the history and development of traditional African Theatre and drawing from the earliest times. However, the emphasis would be on indigenous theatrical activities in Africa – especially as they operated in places like churches, concert party bands, and the role of minstrels, and pop songs group. The attempt to study this would flow into the mid -70s.

**THA 212: History of Drama and Theatre: Renaissance to Modern (2 credits) 1<sup>st</sup> Semester.**

This course is a historical survey of the major events and development in the theory and practice of world drama and theatre from the renaissance to 1960.

**THA 213: Introduction to Dramatic Literature and Criticism (2 credits) 1<sup>st</sup> Semester.**

This is an introductory study of critical methodologies since Aristotle, using selected plays. The students are expected to understand and appreciate how the criticism of drama has shaped, and has been shaped by the writer's principles of selecting and arrangement.

**THA 214: Introduction to Directing (2 credits) 1<sup>st</sup> Semester.**



This study introduces the students to the basic mechanics of directing for the stage. The director's application of the principles of compositions, picturization, movement, rhythm and pantomimic dramatization is emphasized.

**THA 215: Basic Speech Arts & Acting Techniques (2 Credits) 1<sup>st</sup> Semester**

Through basic mechanics which aid articulation and projection, the students study the phonemic and stress patterns of English and their interaction with various Nigerian Language tones. So grounded the students learn to speak poetry and prose with differing dramatic effects as demanded by the context or the text.

**THA 216: Technical Theatre Scene Design 1 (2 credits) 1<sup>st</sup> Semester.**

This is a theoretical course in theatre design. This is expected to take a survey of design as the visual scheme of a production, which includes scenery, costumes, props and stage lighting. This course will expose students to the definition of design, nature of design and functions of design. It will also explore the aesthetic factors of design in the paradigms of its appropriateness to the script, the director's interpretation, the need for individuality and visual unity. This course will further expose students to the physical factors used in actualizing the theories. Its main focus is on set and lighting as they apply to the kind of stage action, the place of performance and technical demands of the script. Students would be expected to design a production at the end of the semester.

**THA 217: Introduction to Theatre Management and studio design (2 credits) 1<sup>st</sup> Semester.**

This is an introductory course in the theatre management practice. This course establishes the relationship between three integral- related study areas i.e. the artistic, the economic and the administrative management aspects of the theatre industry. The course is designed to give the students knowledge of the business potentials of the theatre as a profession. This course would cover basic techniques of poster, hand bills, brochures and other publicity/advertising material method of theatrical publicity, treating and ticket sales, fundamentals of house management and ushering. This course is also to expose students to the legal aspect of art management and the law-copy right rules and problems.

**THA 218: Fundamental of Playwriting (2 credits) 1<sup>st</sup> Semester.**

With emphasis on plot and plot devices, characterization, theme and dialogue, the students are introduced to the art of play writing. Exercise will be used to develop the student's grasp and execution of these elements in practice.

**THA 219: Introduction to Dance and Music Theatre I (2 credits) 1<sup>st</sup> Semester.**

This is an introduction course that exposes students to the general nature and meaning of dance and music in different cultures through an examination of the aesthetic principles of dance and musical modes.

**THA 221: Arts of the Theatre (2 credits) 2<sup>nd</sup> Semester.**

This course further seeks to introduce students to various aspects/arts of the theatre, with this they are prepared for workshop in THA 228.

**THA 222: Community Theatre (2 credits) 2<sup>nd</sup> Semester.**

This course is designed to expose the students to the need for interaction and relationship between the students and the host community. It is an introductory teaching into the practice of TFD.

**THA 223: Children's Theatre/Puppetry (2 credits) 2<sup>nd</sup> Semester.**

This course is a study of the theatre as a process of child education. It teaches the techniques of working with children in primary schools. Emphasis would be laid on using Children of Okada

community for Saturday Playhouse. Also, the course would be a historical study of the nature, meaning and functions of puppet theatre. Emphasis would be on Nigerian's and African's forms of puppetry.

**THA 224: Introduction to Dramatic Genres: Tragedy and Comedy (3 Credits) 2<sup>nd</sup> Semester**

The course is basically introductory in nature. It is designed to expose students to the basic theories of tragedy and comedy from the Greeks to Renaissance.

**THA 225: Principles of Broadcasting (2 credits) 2<sup>nd</sup> Semester**

This course is designed to enable the students appreciate the fact that the environment can only sustain us when we are able to understand it like our fellow men. On completion of this course, the student should know how to establish a positive relationship with the environment, knowing how to understand environmental language, appreciate the ways of helping the environment to sustain us and understand how to check the various environmental abuses in our society today.

**THA 226: Technical Theatre Scene Design 1 (2 credits) 2<sup>nd</sup> Semester.**

This course is the practical aspect of the THA 226. Students would be expected to construct and design the set, props and stage lighting. Students would be expected to design a production at the end of the semester.

**THA 227: Theatre Management and studio design (2 credits) 2<sup>nd</sup> Semester.**

This course is the practical aspect of the THA 227. Students would be expected to manage certain aspects of productions and the administration of the theatre. The course is further designed to give the students knowledge of the business potentials of the theatre as a profession. This course would cover basic techniques of poster, hand bills, brochures and other publicity/advertising material method of theatrical publicity, treating and ticket sales, fundamentals of house management and ushering. This course is also to expose students to the legal aspect of art management and the law-copy right rules and problems.

**THA 228: Theatre Workshop (3 credits) 2<sup>nd</sup> Semester.**

This is a study of the principles and practice of ensemble production designed to bring together the various department of theatre arts in a workshop production.

**THA 229 Introduction to Dance and Music Theatre II (2 credits) 2<sup>nd</sup> Semester.**

This course is the practical aspect of the THA 219. Students would be expected to design, compose, choreograph and perform any of their artistic pieces found in their immediate cultural environment.

**300 LEVEL**

**THA 311: Modern African Drama and Theatre (3 credits) 1<sup>st</sup> Semester**

A study of the origins and development of written works of drama in Africa since 1900. The course shows how major African authors have used theatre to respond to their cultural, social and political situations in various regions of the continent.

**THA 312: Play Appreciation and Theatre Criticism. (3 credits) 1<sup>st</sup> Semester**

This will further expose students to the theories and principles of play appreciation and analysis. Essentially, it will emphasize the difference between a review and a critique. Students would be expected to use freely materials/ play texts from various ages of the theatre.

**THA 313: Research Methods in Theatre Arts (3 credits) 1<sup>st</sup> Semester**

A course in the basic approaches to scientific gathering of data, definition of methodology, collation and analysis of material for research in various areas of theatre following both historical and practically the latest and best models for scholarly rediscovering of information from achievers, libraries and fieldwork.

**THA314: Black American Theatre and Drama in the Diaspora. (3 credits) 1<sup>st</sup> Semester**

This is mainly a survey of the major themes, plays, playwrights through the African in Diaspora i.e. The United State, Caribbean; Brazil etc .Theoretical definitions of Black aesthetic will also be discussed.

**THA 315: Acting (3 credits) 1<sup>st</sup> Semester**

An introductory course to the origin, theories (school of thought) and practice of acting through the ages. Students will be expected to play roles in an acting joint (project) performance in the 300 level ensemble productions.

**THA 316: Theatre Administration and Scenography (3 credits) 1<sup>st</sup> Semester**

Students are to be exposed to basic principles and theories of theatre administration, design and technical aspects of theatre.

**THA 317: Directing**

An introductory course to the origin, theories (school of thought) and practice of directing through the ages. Students will be expected to direct plays in an acting joint (project) performance in the 300 level ensemble productions.

**THA 318: Media Arts Studies I (3 credits) 1<sup>st</sup> Semester**

This is a study that introduces students to the various areas of the media (Radio, Television, Film and other branches of the media). Students would be told to do project on any area of their choice.

**THA 319: Dance and Music Theatre (3 credits) 1<sup>st</sup> Semester**

This is a course that exposes students to the theories and practices of dance and music in the theatre. Students are to take part in different African and other music and dances (classical like bata and modern). They are also expected to know the basics of the relevant music to each dance.

**THA 331: Educational Theatre and Children Theatre (3 credits) 1<sup>st</sup> Semester**

This is a continuation of the study of theatre as a process of child education. It teaches the techniques of both working with children both at primary and secondary school levels through theatre games; dance and improvisation with a view to cultivating their creative emotion and intellectual faculties as well as their ability to work together harmoniously as members of a team. Student would be expected to go to any secondary school of their choice for the project.

**THA 321: Theatre in Africa: A guided Field Study (3 credits) 2<sup>nd</sup> Semester**

This is an intensive study of the tradition in Africa, with field work assignments leading to the presentation of a project.

**THA 322: Popular Theatre/Theatre for Development (3 credits) 2<sup>nd</sup> Semester**

This is a theoretical/practical study of popular theatre for development as an art or form and as medium of social mobilization and community development.

**THA 323: Author Study (3 credits) 2<sup>nd</sup> Semester**

This is an examination of the works of a specific author. The examination is not restricted to playwrights. For this course, one African and one non African author would be examined along the line of theme, social relevance, form, content and contextual application.

**THA 324: Production Workshop (3 credits) 2<sup>nd</sup> Semester**

This course helps students to do intensive work in one of the following areas: drama, music, broadcasting and film, stressing process and growth. The work may lean towards improvisation and experiment.

**THA 325: Acting**

An introductory course to the origin, theories (schools of thought) and practice of acting through the ages. Students will be expected to play roles acting joint (project) performance in the 300 level ensemble productions.

**THA 326: Costume and Makeup (3 credits) 2<sup>nd</sup> Semester**

The course is an intensive theoretical and practical study of the art of costuming and makeup. Students are meant to build costumes.

**THA 327: Directing II (3 credits) 2<sup>nd</sup> Semester**

This course is designed to help students actualize those theories/principles that have been acquired through THA 314 in the first semester. Students will be physically involved in directing of a play/scenes from full plays.

**THA 328: Media Arts: Radio/TV, Video, Film and Folk Media II (3 credits) 2<sup>nd</sup> Semester**

This is a practical study of the techniques and processes in radio, television, video, film and folk media production, leading to actual production project in any of the media. This course will help students to realize what has been taught in THA 318.

**THA 329: Dance and Music Theatre II (3 credits) 2<sup>nd</sup> Semester**

This course is also designed to help students actualize those existing theories/principles that have been learnt. By this, students are to participate in dance and musical productions.

**THA 341: Educational/Children Theatre II (3 credits) 2<sup>nd</sup> Semester**

This course has to do with the practical participation with children in formal situation as wells as in informal school situation in the arts of the theatre. This is more or less a continuation of THA 331.

**THA 332 Industrial Attachment (3 credits)**

This is a three months training in which the student is expected to work in an organization under the supervision of the course lecturer. The student is expected to put in the knowledge of all the facets of the theatre which they have learnt. The students are expected to keep a record of all the duties perform and submit same to the department for grading.

**400 LEVEL**

**THA 411: Dramatic Theory and Criticism (3 credits) 1<sup>st</sup> Semester**

This is a study of the main theories and trends in dramatic criticism, its methodologies and approaches from Aristotle to Brecht, using appropriate play texts.

**THA 412: Sociology of Drama and Theatre (3 credits) 1<sup>st</sup> Semester**

This course deals in some details with the interrelatedness of drama and theatre and society as a whole. It anchors its strength on texts from across ages while exploring influence of theatre on the society and vis a vis. It also seeks to use the theatre for development approach to deal with societal problems.

**THA 413: Philosophy and Aesthetics of Theatre I (3 credits) 1<sup>st</sup> Semester**

This course is designed to expose students to the philosophy and aesthetic aspects of the theatre through theories and practices. Its main focus would be on form and content and its different manifestation in various aspects of theatre.

**THA 414: Workshop Ensemble I (3 credits) 1<sup>st</sup> Semester**

This is a practical course designed to ensemble performance. The ensemble spirit is very much encouraged in this course. At the end of the course, students will be expected to mount a production reflecting the ensemble nature of the discipline.

**THA 415: Acting (3 credits) 1<sup>st</sup> Semester**

THA 315 and 325 are prerequisite to this course. The course is designed to expose the students to the rudiments, technicalities and approaches to professionalism in acting. Also the students will albeit peripherally, be exposed to the basic differences between stage acting and acting for other electronic media. Students would be required to act and mount independent productions.

**THA 416: Theatre Administration and Scenography I (3 credits) 1<sup>st</sup> Semester**

This is an advanced study into the intricate workings of the box office, entries, book balance and accounting systems, house management and stage/studio management crafts. This course further exposes students to the theoretical and practical framework of scene design, This course is part of an ensemble project in which students specializing in Theatre administration and scenography are to creatively, effectively and profitably and manage a class production in a professional and artistic manner At the end of the semester, students would be expected to manage the stage, box office and theatre in general.

**THA 417: Directing**

Students would be expected to study directorial approaches through the ages. The course is further designed to expose students to the intricacies of professional directing both for the stage and other media. Students are expected to direct one independent production at the end of the semester, at least, one act play.

**THA 418: Sociology of the Media: Film, Radio, TV and their attributes I (3 credits) 1<sup>st</sup> Semester**

This course is a comprehensive study of the media, its functions, formats and its interrelatedness with the society. However, particular attention would be paid to the areas of public relation and advertising, their growth and development.

**THA 419: Advanced Dance and Music Theatre (3 credits) 1<sup>st</sup> Semester**

This course will further expose students to the theoretical underlining of the arts of dance and music and their compositions. Students would be encouraged to create original dance and music pieces at the end of the semester. Besides, students would be exposed to the arts of dance and music criticism.

**THA 431: Playwriting and Theatre Criticism I (3 credits) 1<sup>st</sup> Semester**

This course is an intensive study of the fundamentals of playwriting and theatre criticism with emphasis on plot, plot devices, characterization, theme and dialogue.

**THA 421: Topics in Theatre Studies (3 credits) 2<sup>nd</sup> Semester**

A continuation of THA 411, a study of dramatic theories, movements and philosophy. Students would be expected to be familiar with critical works of scholars across the ages and illustrate them with respective texts.

**THA 422: Sociology of Drama and Theatre II (3 credits) 2<sup>nd</sup> Semester**

This is a continuation of THA 412. It seeks to discover more about the Interrelatedness of drama and theatre and society as a whole. Like THA 412, it anchors its strength on texts from across ages, it also seeks to use the theatre for development approach as vital way of treating societal problems. Students would be asked to write a project on any area of theatre or drama and how this affect societal life-political, economic and other sphere.

**THA 423: Philosophy and Aesthetics II (3 credits) 2<sup>nd</sup> Semester**

This course is designed to intensify the study of philosophy and aesthetics through the use of selected text. Emphasis would be made to appreciate and criticize the chosen works from text to performance.

**THA 424: Workshop Ensemble II (3 credits) 2<sup>nd</sup> Semester**

This is a practical course designed to ensemble performance. The ensemble spirit is encouraged in this course. At the end of the course, students would be expected to mount a production reflecting ensemble nature.

**THA 425: Acting and Directing II (3 credits) 2<sup>nd</sup> Semester**

This course is aimed at exposing the students further to the theories and various techniques of acting and directing. Students are expected to stage a production at the end of the semester.

**THA 426: Scenography, Costume Construction & Make Up II (3 credits) 2<sup>nd</sup> Semester**

THA 417 is a prerequisite for this course. It is a practical study of designing sets, making costumes and making up for productions. Students in this course are to practically realize a project in lighting, set construction or costume design and makeup related to departmental production. Students would be expected to create their own unique designs and construct it for exhibition. Student will also be expected to costume, design and makeup for various productions during the year.

**THA 428: Sociology of Media Arts II (3 credits) 2<sup>nd</sup> Semester**

This course intensifies the students' knowledge of the media in the society and the functionality of the media in showcasing or selling theatrical activities as products, and how these products affect the society and vice versa i.e. films, radio/TV etc. Emphasis would also be made to review the media laws guiding the profession.

**THA 429: Advanced Dance and Music Theatre II (3 credits) 2<sup>nd</sup> Semester**

This course is continuation of THA 419. Here, students would be asked to put into practice all they have been taught taking into consideration the plasticity nature of the arts.

**THA 441: Playwriting and Criticism II (3 credits) 2<sup>nd</sup> Semester**

This course entails a practical project in playwriting and theatre criticism from conception to actual realization.

**THA 442: Long Essay (6 credits) 2<sup>nd</sup> Semester**

This is an individual terminal research project in which the student demonstrates his/her command of knowledge in the field of theatre arts. The project may be academic or practical in either case; it must be accompanied by a written report. The only restriction on the choice of topic is that it may be originally or vitally related to theatre arts.

## **APPROVED PROFESSIONAL CODE OF CONDUCT FOR MEMBERS OF THE DEPARTMENT OF THEATRE ARTS**

### **1. CALL TIME FOR PERFORMANCE**

Performers are expected to be in the rehearsal venue fifteen minutes before the advertised rehearsal time and at least one hour before the advertised performance time. In addition, all performers should be in their costumes and in the dressing room thirty minutes before performance. Failure to comply with the above, the artists will be deemed not to have participated in the rehearsal/performance.

### **2. CONDUCT DURING REHEARSALS/ PERFORMANCE**

In recognition of the fact that the practice of theatre requires the highest degree of discipline, the artist is required to be in full control of himself. The artist is therefore strongly advised to avoid the following acts:

- a) Artists are not allowed to eat or chew in the theatre.
- b) Visitors are not allowed into the theatre during rehearsal.
- c) Under no circumstances should cast members receive visitors within or around the theatre during rehearsals.
- d) No smoking or drinking of alcohol is allowed in the theatre (cast members are strongly advised to abstain from taking alcohol or any stimulant before rehearsal/performance).
- e) Phone calls are not allowed during rehearsals or performances. All phones are expected to be submitted to the Stage Manager before the beginning of the rehearsal/performance.

### **3. QUARRELING**

Theatre artists are known to have good sense of humour but humour that is offensive must be avoided at all cost, and apology rendered to the offended party.

### **4. AGGRIEVED PERSONS**

Quarrelling must be avoided during rehearsal/production, it is the responsibility of the offended party to report cases of provocation/molestation to the artistic director, rather than engage in any activity that may amount to a disturbance of the smooth running of the rehearsal/production.

- Fighting is STRICTLY prohibited in the theatre.
- Under no circumstance should an aggrieved person take the law into his or her hands.

### **5. MEMBERSHIP OF CULT**

No member of the department should be affiliated to any cult. Membership of such cult is highly prohibited for both staff and students. This is because the activities of such cult are diametrically opposed to the ideals of theatre.

### **6. THEFT**

Removal of any item from the theatre or department without official permission shall be treated as a case of theft. This is a serious offence in the theatre that must be avoided by all.

## **7. HANDLING OF PROPS AND COSTUMES**

- (a) Every props and costumes used during production **MUST** be returned in good condition to the store by the cast members before leaving the theatre. Care for hand props and costumes are the responsibilities of the individual users.
- (b) Any damage to any prop or costume should be promptly reported to the stage manager who will report to the appropriate authority.
- (c) Any user or handler of a prop or costume will be surcharged for any will-full damage.

## **8. HANDLING OF SCRIPTS.**

- (a) All cast members are required to recognize the fact that scripts given to them are properties of the department/directors so can be withdrawn at any time.
- (b) Scripts must be brought to the rehearsals. An actor who fails to bring his script and a pencil/writing material to rehearsal will be deemed to have been absent for that rehearsal.

## **9. TOURS**

- i. Only performers/crew member for the production at hand would be allowed to proceed on tour.
- ii. All performers/crew members must travel only in the officially provided means of transport for that tour.
- iii. While on tour, all performers/crew members must be content with the accommodation officially provided for the trip. No private accommodation arrangement by cast members would be allowed.
- iv. Un-authorized movements by cast/crew members on tour will not be allowed / tolerated.

## **10. DRESS ETHICS**

- a) Artists are required to appear decent and presentable at all time.
- b) Performers are not allowed to use jewelries or foot-wears on stage (unless they are part of the costume for individual actors).
- c) Performers are required to attend rehearsals only in their workshop out-fit.

\*\*\* For the avoidance of doubt, workshop out-fit referred to are:  
jeans trousers, culottes, leotards or any decent outfit that allows for free-movement during stage exercises

## **11. PRIVATE PRODUCTIONS**

Students are allowed to participate in artistically rewarding private production so long as they do not clash with departmental interests/responsibilities.

## **12. TRIVIAL ACTIVITIES**



Students of the department are prohibited from participating in trivial activities that could soil the image of the profession. Activities like; beauty contest, drinking and smoking competition, pyjamas party, pimping or other harmonious activities.

### 13. INSUBORDINATION

- a) Theatre business calls for collaborative efforts by all concerned. Therefore, no artist should see himself/herself working contrary to the team-spirit. All artists MUST obey instructions from constituted authorities e.g. stage manage, director and heads of the different production units.
- b) Cases of insubordination will be viewed seriously for appropriate sanctions by the departmental disciplinary committee.

### 14. LATENESS/ABSENTEEISM

- a) Any artists who arrive later than the prescribed call time shall be treated as absent. An artist who has a cogent reason for lateness should notify the director beforehand.
- b) Cases of absenteeism during rehearsals/productions are considered as very serious offenses/sabotage in theatre. Due to the practical nature of theatre training, a lot of emphasis is given to physical presence during lectures/rehearsals.

### 15. CHANNEL OF COMMUNICATION

The appropriate channel of communication should be observed at all times. When in doubt, members of the department are advised to clarify from the staff adviser or head of department. Better results are achieved when members avoid breaching protocol.

### 16. STAFFING

Our department is well staffed with people who have the academic experience to train and nurture a total professional in the field of the Theatre and Media Studies. The following are the academic staff of the department.

#### Academic Staff List

S/ N	NAME	RANK	QUALIFICATI ON	SPECIALIZATION
1.	Dr. Praise C. Daniel-Inim	Lect. 1 Ag. H.O.D	B.A (Hons) M.A, PhD.	Acting, Media Arts Playwriting, Children's Theatre
2.	Prof. Mabel Evwierhoma	Prof.	B.A (Hons) M.A, PhD.	Dramatic Theory & Criticism
3.	Mr Eshiet I. James	Lect II	B.A (Hons) M.A	Dramatic Literature, Acting and Directing
4.	Oboho Okitefre Oboho	Asst. Lect.	B.A (Hons) M.A	Technical Theatre

**COLLEGE OF BUSINESS AND MANAGEMENT STUDIES**  
**DEPARTMENT OF ACCOUNTING**  
**B. Sc. (ACCOUNTING) CURRICULUM**

**PROGRAMME PHILOSOPHY AND OBJECTIVES**

**PHILOSOPHY**

The department shall prepare students for the award of B. Sc. (Accounting) Degree of this University. The purpose of the B. Sc. (Accounting) degree programme is to produce competent academic & professional accountants and financial experts. The programme shall familiarize students with the basic theoretical and practical tools and techniques required for excellent performance in their future professional work.

**OBJECTIVES**

- a) To provide a highly motivated academic environment that fosters the academically minded to pursue further studies and research in management.
- b) To develop high level manpower for the country
- c) To contribute to the supply of academic and professional accountants both for Nigerian Universities and Nigerian industries.

**ADMISSION REQUIREMENTS**

In addition to the general university requirements, the following regulations shall apply to the admission of students into the department.

**DIRECT ENTRY REQUIREMENT**

- i) **Two ‘A’ level passes in Economics or Accounting and an additional subsidiary subject. Candidates are expected to possess five credits at SSCE/GCE ‘O’ Level or their equivalent in subjects which include English Language, Mathematics and Economics. Results at ‘O’ level and ‘A’ level must be attained at not more than two sittings or**
- ii) A National Diploma Certificate from approved universities or colleges of technology of Polytechnics with a grade not lower than merit. In addition, the applicant must possess five credits at SSCE/GCE ‘O’ level or its equivalent in subjects which includes English language, Mathematics, and Economics
- iii) Any credential approved by the senate of the University.

**a) UME**

Five ‘O’ level credits including English language, Mathematics, Economics and any two other relevant subjects from any Government approved examining body e.g. WAEC, NECO and NABTEB

**PROGRAMME/DISCIPLINE**

Structure to include period of formal studies in the University; industrial training, planned visits and projects.

The B. Sc. Accounting programme is structured as follows:

- i) A four-year programme for UME entrants
- ii) A three-year program for Direct entrants

At the end of the third year programme, students are permitted to undergo a three months Industrial training in various industries. The purpose is to enable them acquire practical orientation/exposure in area that bear direct relevance to accounting theory and practice.

## **REGULATIONS GOVERNING COURSES LEADING TO THE DEGREE OF BACHELOR OF SCIENCE IN ACCOUNTING**

1. A four-year programme of course shall be provided leading to the degree of Bachelor of Science to be denoted by the letter B.Sc. which may be awarded with Honours or as a Pass Degree in Accounting.
2. Instruction in the department shall be by courses and students will be required to take an approved combination of courses in the University approved by Senate, or the recommendation to the departmental Board, as may be determined from time to time.
3. Courses shall be evaluated in terms of course units. One course unit shall be defined as one lecture contact hour per week, while three course units shall be defined as 3 lecture contact hour per week.
4. There shall be four levels of courses; numbered 111 – 199, 211 – 399 and 411 – 499. course numbers shall be prefixed by a three-character programme/subject code. Determination of the class of degree shall be based on performance at all levels.  
The courses are currently numbered 111 – 499 under the four-year Degree programme systems.
5. To earn a degree, all core courses must be taken and passed.
6. Every course shall be examined during the semester in which it is offered and candidates will be credited with those courses in which they have passed.
7. Continuous assessment shall be regarded as part of course examinations, but marks scored through continuous assessment shall not constitute more than 30% of the full marks for the course.
8. The approved period of study for the award of the degree shall not be less than 6 semesters for direct entry students and 8 semesters for UME students.
9.
  - (i) The cumulative (CGPA) Grade Point Average System shall be used for determination of Class of Degree.
  - (ii) The CGPA of candidates will be determined by the sum of the weighted grade point divided by the total units of all courses registered for, passed or failed.
  - (iii) Only the weighted average system shall be used in determining the grade point average.
  - (iv) No student whose grade point average is below 1.0 shall be awarded a degree.

10. A student shall normally be required to withdraw from the department if he fails to achieve 1.0 CGPA after two consecutive years.
11. The list of successful candidates for the degree shall be published with the following classifications: First Class Honours, Second Class Honours (Upper and Lower Divisions), Third Class Honours and Pass.
12. All Undergraduate courses shall be full time.

### **GUIDELINES FOR EXAMINATION AND GRADING**

1. In order to obtain the Cumulative Grade Point Average of a candidate the appropriate index (Grade Points) assigned to each range of numerical marks is multiplied by the course unit and the product is added up. The total is divided by total units of courses registered.
2. The final marks for any course shall be a whole number. The grade of the marks shall be awarded on the basis of the final aggregate marks as follows:

<b>Letter Grade</b>	<b>Grade Point</b>	<b>Mark %</b>
A	5	70 and above
B	4	60 – 69
C	3	50 – 59
D	2	45 – 49
F	0	0 – 44

#### **Cumulative Grade Point Average and Class of Degree**

4.5 and above	-	First Class
3.50 – 4.49	-	Second Class Honours Upper Division
2.40 – 3.49	-	Second Class Honours Lower Division
1.5 – 2.39	-	Third Class Honours

The degree shall be awarded with honours provided a student obtains a Cumulative Grade Point Average that is not less than 1.5 and satisfied the minimum honours requirements.

#### **3. Examination**

The following procedures and guidelines are operative:

- a. All lecturers are allowed to set a minimum of twelve questions in their courses while the chief examiner chooses five questions in each of the courses, students are then allowed to choose four questions.
- b. No examination at 400 level shall be administered unless moderated by external examiners approved by the Senate.
- c. The time allowed for written examination shall normally be on the basis of not less than 2½ hours and not more than 1 hour for each unit course. The time allowed for any one-theory paper shall not exceed 3 hours.
- d. Not more than 1 course shall be examined in one paper.

- e. Other forms of examinations may include practical examinations, inspection and assessment of practical work, not books, project work, special reports, and the forms of the examination must be specified by the department and approved by Senate on the recommendation of the Departmental Board.

#### 4. **Grading**

- i. All courses shall be graded out of maximum of 100 marks and all marks shall be returned in numerical scores.
- ii. A candidate who obtains less than 45 marks shall be deemed to have failed the course.

#### 15. **Graduating Requirements**

The degree of Bachelor of Science in Accounting is a four year programme. A student may, however acquire the degree in less than four years provided the requirement for the degree have been met.

To be eligible for the degree, students must have:

- (1) Passed all core courses and any elective recommended for specialization.
- (2) Accumulated at least 176 course units and obtained a CGPA of not less than 1.5.
- (3) Successfully completed the mandatory industrial training and Research project.

**AMENDED COURSE SCHEDULE  
100 LEVEL**

**First Semester Course Offerings**

S/N	COURSE CODE	COURSE TITLE	CREDIT UNITS	REMARKS
1	ACC 111	Introduction to Financial Accounting	3	
2	BFN 111	Introduction to Finance	3	
3	BUS 111	Introduction to Business	3	
4	ECO 111	Principles of Economics I	2	
5	MTH 111	Elementary Mathematics I	3	
6	GST 111	Communication in English I	2	
7	GST 112	Logic, Philosophy and Human Existence	2	
8	GST 113	Nigerian Peoples and Culture	2	
			<b>20</b>	

**Second Semester Courses Offerings**

S/N	COURSE CODE	COURSE TITLE	CREDIT UNITS	REMARKS
1	ACC 121	Principles of Financial Accounting	3	
2	BFN 121	Introduction to Money and Banking	3	
3	ECO 121	Principles of Economics II	2	
4	MTH 122	Elementary Mathematics II	3	
5	GST 121	Use of Library study skills and ICT	2	
6	GST 122	Communication in English II	2	
7	GST 123	Communication in French	2	
		<b>Total</b>	<b>17</b>	
		<b>Grand total</b>	<b>37</b>	

**200 LEVEL**

**First Semester Course Offerings**

S/N	COURSE CODE	COURSE TITLE	CREDIT UNITS	REMARKS
1	ACC 211	Financial Accounting I	3	
2	ACC 212	Business Statistics I	3	
3	ACC 213	Cost Accounting	3	
4	ACC 214	Computer application in Accounting	2	
5	BUS 211	Principles of Management	3	
6	ECO 211	Micro-Economics	2	
7	EPS 211	Entrepreneurship studies	2	
8	GST 211	History & Philosophy of Science	2	
		<b>Total</b>	<b>20</b>	

**Second Semester Courses Offerings**

S/N	COURSE CODE	COURSE TITLE	CREDIT UNITS	REMARKS
1	ACC 221	Financial Accounting II	3	
2	ACC 222	Advanced Cost Accounting	3	

3	ACC 223	Business Statistics II	3	
4	ACC 224	Business Communication	2	
5	ACC 225	Computer Application in Accounting	2	
6	BFN 223	Business and Corporate Finance	3	
7	ECO 221	Macro-Economics	2	
8	GST 221	Peace studies and Conflict Resolution	2	
		<b>Total</b>	<b>20</b>	
		<b>Grand Total</b>	<b>40</b>	

ACC 111 and ACC 121 are pre-requisites for ACC 211 and ACC 221 respectively.

### 300 LEVEL

#### First Semester Course Offerings

S/N	COURSE CODE	COURSE TITLE	CREDIT UNITS	REMARKS
1	ACC 311	Intermediate Financial Accounting I	3	
2	ACC 312	Laws & Accounts of Bankruptcy	2	
3	ACC 313	Financial Management I	3	
4	ACC 314	Management Accounting I	3	
5	ACC 315	Auditing I	3	
6	BUS 314	Production Management	3	
7	EPS 311	Entrepreneurial Studies	2	
8	LAW 313	Business Law	2	
			<b>21</b>	

#### Second Semester Courses Offerings

S/N	COURSE CODE	COURSE TITLE	CREDIT UNITS	REMARKS
1	ACC 321	Intermediate Financial Accounting II	3	
2	ACC 322	Taxation I	3	
3	ACC 323	Financial Management II	3	
4	ACC 327	Quantitative Analysis for Business Decisions	3	
5	BUS 324	Business Research Methods	3	
6	LAW 323	Company Law	2	
7	POL 322	Element of Government	2	
		<b>Total</b>	<b>19</b>	
		<b>Grand total</b>	<b>40</b>	

ACC 211 and ACC 221 are pre-requisite for ACC 311 and ACC 321, respectively.

## 400 LEVEL

### First Semester Course Offerings

S/N	COURSE CODE	COURSE TITLE	CREDIT UNITS	REMARKS
1	ACC 411	Advanced Financial Accounting I	3	
2	ACC 412	Public Sector Accounting & Public Finance I	3	
3	ACC 414	Management Accounting II	3	
4	ACC 415	Auditing II & Investigation	3	
5	ACC 416	Accounting Ethics	3	
6	ACC 417	Theory of Accounting	3	
7	ACC 418	Industrial Work Experience	2	
8	BUS 411	Business Policy and Strategic Management I	2	
			<b>22</b>	

### Second Semester Courses Offerings

S/N	COURSE CODE	COURSE TITLE	CREDIT UNITS	REMARKS
1	ACC 421	Advanced Financial Accounting II	3	
2	ACC 422	Management Information System	3	
3	ACC 423	Taxation II	3	
4	ACC 424	International Accounting	3	
5	ACC 425	Public Sector Accounting Public Finance II	3	
6	ACC 426	Multi- Disciplinary Case Study	3	
7	BUS 421	Business Policy and Strategic Management II	2	
8	ACC 429	Research Project	6	
			<b>26</b>	
			<b>48</b>	

ACC 311 and ACC 321 are pre-requisite for ACC 411 and ACC 421 respectively.

### COURSE DESCRIPTION

## 100 LEVEL

### FIRST SEMESTER

#### **ACC 111: Introduction to Financial Accounting I (4 credit units)**

The nature and scope of Accounting; the role of accountants, the accounting functions and relationship with the information system of organization, definition of accounting, historical background of accounting. Source documents and their uses, subsidiary books; meaning, types and preparation; sales day book, purchases day book, returns inwards day book, returns outward day book and journal proper. The accounting equation, double entry principle – books of accounts, including cash book, ledgers, petty cash book and imprest system, posting of entries in the subsidiary books to the ledger, the trial balance, meaning and purpose of the trial balance, errors affecting the trial balance, errors not affecting the trial balance; correction of errors and the uses of suspense accounts. Final accounts of sole traders including adjustment for: provision for depreciation, provision for bad debts, accruals and prepayments. Classification of expenditure between capital and revenue. Bank reconciliation statement and adjustment of the cashbook. Introduction to Accounting Standards, History of NASB, IASC, IASB, SAS, IAS, IFRS and Financial Reporting Council of Nigeria.(FRCN)



**BFN 111: Introduction to Finance (3 credit units)**

An introduction to the study of Finance, definition, nature and risks of finance; The firm and its financial objectives and financial decisions; the finance function: financial management as tool for Planning and Control; Financial intermediaries; financial Markets and instruments there in; the Stock Exchange; Finance Business; Sources and choice of fund acquisition: Capital budgeting.

**BUS 111: Introduction to Business I (3 credit units)**

The objective of this course is to introduce the beginning students of Business, Accounting, Banking and Finance, Economics, and related social science disciplines to the basic elements of the study of business administration Topics covered include: survey of business, the modern business world, the composition, nature and functions of the business enterprise as well as its role as a social and economic unit.

**ECO: 111 Principles of Economics I (3 credit units)**

This course is an introduction to microeconomic theory. Topics covered include basic concept of scarcity, choice, opportunity costs, scale of preference, the methodology of Economics, Market mechanism, including demand, supply and price determination; theories of consumers behaviour theory of production, theory of the firm, cost of production, pricing and output under perfect competition, monopoly, monopolistic competition and oligopoly, etc.

***MTH 111: Elementary Mathematics I (3 credit units)***

*Mathematics and symbolic logic, inductive and deductive systems, simple and compound statement, truth tables. Set theory, real and complex number system. Binomial the Oren and equations. Matrix algebra and matrix accounting. Numeric analysis difference formular (equal and unequal intervals). Interpolation and summation technique, coordinate geometry. Cartesian and polar coordinates area of triangles and quadrilaterals. The circles, parabola, eclipse and hyperbola. Arithmetic and geometric progression.*

**GST 111: Communication in English 1 (2 credit units)**

The course will consolidate the fundamentals of English Language including the following: nouns and pronouns (types and features), verbs and tenses (varieties), adjectives and adverbs (varieties, features, and functions), conjunctions, prepositions, interjections, clauses (types), and sentences (types). Language skills of listening, speaking, reading, and writing. Choosing topics for writing (planning, assembling and organizing points, outline preparation, factors of unity, coherence, context, originality, mechanical accuracy, and paragraph development). Forms of writing, including narrative, descriptive, expository, argumentative, summary, correspondences, and speech writing. Brief history of libraries. Library and education. University libraries and other types of libraries. Using library resources in enhancing study skills. These include understanding cataloguing systems and classifications, locating books and journals, lending/borrowing, e-learning, e-materials, other reference materials, and indexing. Copyright and its implications. Database resources, bibliographic citations, and referencing.

**GST 112: Philosophy, Logic, and Human Existence (2 credit units)**

A study of the main branches of philosophy and logic. Logic will deal with the following: Symbolic Logic; special symbols in symbolic logic-conjunction, negation, affirmation, disjunction, equivalence and conditional statements; method of deduction, rules of inference and bio-conditionals qualification theory. Legal studies will include Nature of law, Characteristics of the Nigerian Legal System, Classification of Nigerian Law, Functions of Law in the society, Human Rights.

**GST 113: Nigerian Peoples and Culture (2 credit units)**

A study of Nigerian history and culture from pre-colonial times, including the Nigerian's perception of his world; culture areas of Nigeria and their characteristics; evolution of Nigeria as a political entity; concept of functional education; national economy; balance of trade; economic self-reliance; social justice; individual and national development; norms and values; environmental sanitation; principles of good and bad, right and wrong; moral implications of our choices, judgments and actions; morality versus expediency; the role of conscience; moral obligations of citizens.

**SECOND SEMESTER****ACC 121: Introduction to Financial Accounting II (4 credit units)**

Review of ACC 111. Final accounts of sole traders; further adjustments and presentation in T-form., financial reporting and framework of Accounting by IASB. Depreciation of non-current assets, meaning of depreciation, reasons for making provisions for depreciation; methods of providing for depreciation and related accounting theory including IAS 16. Various methods of calculating depreciation: straight line method, reducing balance method, sum-of-the-year's digit method, production hour method, production unit method, Revaluation method, Sinking fund method. Inventory: methods of valuation and related accounting theory including IAS 2. Manufacturing accounts, incomplete records and Single entry.

**BFN 121: Introduction to Money and Banking (3 credit units)**

Nature, forms and functions of Money: theories of Commercial Banking Institutions; the Banks and Money Supply; Money and Capital Markets; Monetary and Fiscal Policies; Inflation and Credit Creation; History of Banking in Nigeria; Development of the Central Bank; General Principles of Bank Lending; Bank Services; Methods of Payment through the banking system both domestic and overseas; the statement of financial position structure; the protection of deposits funds; reserve and liquid assets requirements

**ECO 121: Principles of Economics II (3 credit units)**

This course is basically an introductory course on the Macro-economics aspect of economic theory. Topics covered include the subject matter of economics and basic economic problems; the methodology of economics science and the general principles of resource allocation; national income accounting including elementary models of income and employment; money and banking employment and unemployment; public finance including government budget; international trade; balance of payments and economic growth and development.

**MTH 122 Elementary Mathematics II (3 credit units)**

Algebraic and transcendental function, Differential Calculus; limits and continuity, Derivation from first principles. Total differentiation-application to marginal analysis cost functions, indifference curves etc. Maximization and minimization. Partial differentiation with application to marginal analysis and comparative statistics. Integral calculus, integration with application to marginal total equations. Permutation and combination. Simple sequences and series – finite and infinite, convergent and divergent series.

**GST 121: Use of Library study Skills & ICT (2 credit unit)**

## **GST 123: Communication in French (2 credit units)**

### **200 LEVEL**

#### **FIRST SEMESTER**

##### **ACC 211: Financial Accounting 1 (4 credit units)**

Review of ACC 121, Further problems on incomplete records, preparation and presentation of final accounts of non-commercial organizations such as clubs, societies, trade unions, churches, mosques etc. Reserves and provisions, accounting treatment of fixed assets and current assets based on SAS 3, introduction to partnership accounts including the final accounts. Changes in partnership: admission/death/retirement of partners including treatment of goodwill, partnership case laws; dissolution of partnership-piecemeal realization in partnership. Joint Venture Accounts. IASB Framework for the Preparation and Presentation of Financial Statements, IFRS I: First time adoption of IFRSs.

##### **ACC 212: Business Statistics I (3 credit units)**

*Nature of statistics, statistical inquiries, forms and designs, the role of statistics, basic concept in statistics, discrete and continuous variables. Functional relationship, sources of data, method of collecting primary data. Presentation of statistical data, measures of central tendency, measures of distribution – normal, binomial, Poisson and hyper geometric.*

##### **ACC 213: Cost Accounting (3 credit units)**

History, principle and objectives of cost Accounting information. Cost accounting aspects (details) of materials, labour and overhead. Integrated and uniform cost accounting job costing – contract and batch costing, process costing, (detailed treatment of joint and by-products as well as spoilage. Evaluation of process stock using FIFO, LIFO and average prices and IAS 2. Funds flow statement, break-even and cost volume-profit analysis).

##### **ACC 214: Computer Application in Accounting (3 credit units)**

#### **ACC 214 COMPUTER APPLICATIONS IN ACCOUNTING (COURSE DESCRIPTION)**

The course offers a general introduction to computer science, evolution of computers and computer technology, generations and classifications of computer architecture; hardware and software techniques and applications; components of a computer system; basic concepts of computer algorithms, programming languages and programming; introduction to computer networks; use of keyboard and mouse as input devices, windows, word processing, spreadsheets and presentation slides; organization chart of computer centre, categories of computer application, use of computers, advantages and disadvantages of computers, introduction to word processing; Data communication (Basic concept and methods of computer networks, internet and e-mail concept) Data processing

(properties, types of processing, batch processing), number representation (binary mathematics, number conversion) computer viruses and protections.

### **BUS 211: Principles of Management (3 credit units)**

This course is a general introduction to the concept, principles, processes, and significance of management within in the context of business and non-business organizations. The course examines in depth the primary managerial activities of planning, organizing, staffing, coordinating, motivating, directing, budgeting, and controlling.

### **ECO 211: Micro Economic Theory (3 credit units)**

The course builds on the foundation students were exposed to in ECO 111. Topics covered include: Theory of consumer behaviour: utility approach, Indifference curve approach, Topics in consumer demand; market structures, output and pricing under values market structures – perfect competition, monopoly, monopolistic competition, oligopoly. The theory of distribution under perfect competition, input pricing and employment under imperfect competition.

### **EPS 211: Entrepreneurial Studies**

The principles and practice of entrepreneurship leading to self-employment. Focus on the concept of entrepreneurship, the basic characteristics required for successful performance as an entrepreneur, types of entrepreneurs and their role demands; identification and evaluation of business opportunities, entrepreneurial resources or business prospects; feasibility study; developing a business plan, conducting a market survey, sourcing finance, setting up a business organization; the problem of succession, and financing and managing growth in entrepreneurial firms; consumer research; keeping of basic business accounting records.

### **GST 211: History and Philosophy of Science (2 credit units)**

An investigation of the origin of life – the evolutionary concept vis-à-vis that of creation; man and his cosmic environment; definition of science and branches of science; developments in science from ancient times to the present; inventors and inventions; science and man; energy forms, sources and implications; Renewable and non-renewable resources; environmental effects of chemicals, plastics, textiles, wastes and other materials; chemical and radio-chemical hazards; introduction to the various areas of science and technology.

## **SECOND SEMESTER**

### **ACC 221: Financial Accounting II (3 credit units)**

Review of ACC 211, Bills of exchange, consignment accounts, containers account, goods on sale or return, Royalties account, voyage account, insurance claims accounts, sinking fund accounts; investment accounts, contract accounts including treatment of IAS 11. IAS 2: Inventories, IAS 11: Construction Contracts, IAS 31: Interest in Joint Ventures, IAS 40: Investment Property, IFRS 4: Insurance Contracts, IFRS 11: Joint Arrangements

**ACC 222: Advanced Cost Accounting (3 credit units)**

Marginal costing; differentiate from absorption costing, treatment of relevant cost, limiting factors, marginal costing for managerial decision making. Standard Costing; types of standard costing, adjustment of standard, preparation of operating statements using standard costing variance analysis, quantity, rate, cost and efficiency variances, budgetary control variance. Budgets and budgetary control, types of budgets, budget preparation, principal budget factor, these budget manual, flexible budgeting, budgetary control techniques, behavioural aspects of budgeting; topical issues in cost accounting.

**ACC 223: Business Statistics II (3 credit units)**

This course focuses on inferential statistics. A study of the methods of making inferences or drawing conclusions from sample data to the statistical population from which the sample was drawn and making decisions or predictions about the population parameters of interest based on sample data. The topics include hypothesis testing and estimation. Contingency table analysis and chi-square applications, simple and multiple regression analysis, analysis of variance and covariance.

**ACC 224 Business Communication****ACC 225 Computer Application in Accounting**

This course focuses on practical training on accounting softwares such as peachtree accounting, quickbook enterprises and other related softwares such as SPSS etc. Application of computers in social and natural sciences, humanities, education and management sciences. The course offers hands on practice using Microsoft word, Excel and powerpoint

**BFN 223: Business and Corporate Finance (3 credit units)**

Working capital management: sources of short term funds, optimal working capital level and its application to the control of credit facility; inventory/stock management, cash and short term loan and overdraft; management of long-term finance, determination of cost of capital optional structure, capital market institution and regulatory agency, the market for new issues and methods of issue, the secondary market, lease financing.

**ECO 221: Macro Economic Theory (3 credit units)**

This course builds on the foundation students were exposed to in ECO 121. It is primarily concerned with the study of relationships between broad economic aggregates. Topics include National Income (accounting and determination) aggregates saving and consumers' expenditure, investment, employment, money supply, price levels, balance of payment. The course attempts to explain the determinants of the magnitude of these aggregates and their rates of change-over time.

## **GST 221: Peace studies and Conflict Resolution**

### **300 LEVEL**

#### **FIRST SEMESTER**

##### **ACC 311: Intermediate Financial Accounting I (4 credit units)**

Review of ACC 221. Departmental Accounts, excluding foreign branches, hire purchase, introduction to Company Accounts, types of capital-ordinary shares, preference shares and debentures and their implications. Statutory books and returns, pre-incorporation profit, post incorporation profits and formation expenses. Issues of shares and debentures, redemption of shares and debentures. Branch accounts (local), IAS 1: Presentation of Financial Statements, IAS 8: Accounting Policies, Changes in Accounting, Estimates and Errors, IAS 18: Revenue, IAS 32: Financial Instruments: Presentation, IAS 37: Provisions: Contingent Liabilities and Contingent Assets, IAS 38: Intangible Assets, IAS 39: Financial Instruments, Recognition and Measurement, IFRS 4: Insurance Contracts IFRS 7: Financial Instrument Disclosures. Company Accounts and reports; treatment of taxation in accounts including deferred taxation, statement of profit or loss and other comprehensive income of companies both for internal use and publication.

##### **ACC 312: The Law and Accounts of Bankruptcy, Executorships and Trust (3 credit units)**

Bankruptcy Act of 1979, Definition, objectives, proceedings. Official receiver-duties, adjudication and discharge, appointment and powers of official receiver and trustee in bankruptcy. Arrangement outside and powers of official receiver and trustee in bankruptcy. Arrangement outside bankruptcy, proof of debts. Property available for payment of debts. Bankruptcy accounts, statement of affairs, deficiency accounts and statement of final accounts. Liquidation and accounts. Executorships law, will and letters of administration. Ingredients of a valid will. Devolution of property, powers and duties of executors, appointment of executor, who may not act as executor, Administrator distribution of estate; appointment of administrator and duties of personal representation. Trusteeship law, creation of a valid trust, appointments and duties of trustees. Statutory powers of trustees. Accounts and termination of trusts.

##### **ACC 313: Financial Management I (3 credit units)**

Review of topics covered in BFN 111 and BFN 223. Dividend policy and internal financing; portfolio theory and management, efficient market hypothesis, securities valuation, risk and diversification capital asset pricing model, etc. Foreign currency transactions, analysis and interpretation of financial statements and reports, business failures. (Same as BFN 313)

**ACC 314: Management Accounting 1 (3 credit units)**

The nature and function of management Accounting. The dual purpose of planning and control. Costs for decision making, marginal costing and contribution analysis, break-even analysis, cost-volume profit analysis'; assumptions, effect of changes in costs and prices on break-even point, margin of safety, sales mix and CPV charts. The concept of opportunity cost and limiting factors. Learning curve theory, budgeting and budgetary control, application of qualitative techniques e.g. statistical methods such as least squares, standard deviation, correlation, regression etc. Standard costing, all variances including profit, contribution mix and yield variances. Interpretation of variances for management decision, planning and operational variances.

**ACC 315: Auditing I (3 credit units)**

Nature and purpose of an audit. Rules and ethics governing the work of an auditor, professional independence of the auditor and his legal status, appointment, resignation and removal of the auditor. Relationship with directors and management, duties, rights and remuneration of the auditors, his professional responsibilities and liabilities. Planning, controlling and recording an audit, internal controlling and recording and audit, internal and external audit, internal control systems, audit procedure. Audit of cash transactions, impersonal ledger, verification of assets, statement of financial position audit and post-statement of financial position events.

**LAW 313: Business Law (3 credit units)**

The Nigerian legal system, sources of Nigerian law, division of powers between the federal and state governments, status law (its legislations and interpretations, history and development of common law and equity laws). Hierarchy of Nigerian law courts, distribution between civil and criminal liability. The nature of tort, the basis and extent of various types of interest in their legal person, corporate personalities of the doctrine of ultra vires of contract. Law of commercial agency, sales of goods, carriage goods, negotiable instruments, hire purchase and installment purchase; suretyship and guarantees, pledge, lease and exchange control.

**BUS 314: Production Management****EPS 311: Entrepreneurial Studies**

## SECOND SEMESTER

### **ACC 321: Intermediate Financial Accounting II (4 credit units)**

Review of ACC 311, Statement of financial position ratio, notes to the accounts and five years financial summary, fund flow statements including cash flows statement. Value added statement, interpretation of account. Conversion of partnership into Limited Liability company, amalgamation and absorption, capital re-organization and capital reduction. Oil and Gas Accounting. Property, Plant and Equipment IAS 16, IAS 17: Lease, IAS 19: Employee Benefits, IAS 26: Accounting and Reporting by Retirement Benefit Plans, IAS 41: Agriculture

### **ACC 322: Taxation I (3 credit units)**

The structure of the Nigerian Tax System. The relative importance of taxes on income, capital and expenditure in contributing to government income. Development of Nigerian legislation. Law and practice of income tax. Determination of responsibility to pay tax, tax administration agencies and tax payable. Partnership and company taxation including that of banks, insurance companies and other financial institutions; treatment of losses, capital allowances. Companies income tax; principles, assessable profits, tax assessment and treatment of losses. Pioneer companies capital allowances. Role of taxation in national planning and development.

### **ACC 323: Financial Management II (3 credit units)**

Capital reconstruction, mergers and acquisitions, capital rationing, mutually exclusive investment, tax influence and investment incentives. Gearing theories, traditional view, the Modiglian Mill hypothesis, borrowing limits, dividends and retention policies. Capital investment decisions—investment criteria—payback, rate of return on capital, DCF, NPV, IRR, profitability index, uncertainty and risk analysis. (Same as BFN 323)

### **ACC 327: Quantitative Analysis for Business Decisions (3 credit units)**

This course introduces the students of accounting to the tools of management science methodology commonly used in management's efforts to understand and analyze varieties of business problems. The course content will focus on mathematical programming: Linear programming: theory and practice, special types of linear programming problems—the transportation problem, transshipment problem, and assignment problem and their applications in business. Network models, including PERT-CPM techniques and their applications in project management. Dynamic programming; Game theory: two-person, zero-sum games and their applications in management decision situations. Probabilistic Models: Queuing theory, Inventory control models, Markov decision processes and their applications; Decision theory; Decision support systems. Applications of computer software and packages, including using the Internet, in QA research and problem-solving.



### **BUS 324: Business Research Methods (3 credit units)**

Basic concepts in scientific inquiry, scientific research, meaning, basic and applied research concepts, theories, laws, hypothesis, research design, choosing a research topic. Problem analysis, literature review, model building conceptual framework. The research proposal sampling techniques. Data collection techniques, data types (primary, secondary data collection strategies, surveys, experiments, content analysis motivation research, data collection instruments e.g. (a) the interview (b) the questionnaire: data measurement, analysis and interpretation; measurement scaling, validity, reliability analysis; qualitative statistical data presentation – tables, charts, cross tabs, etc. Report audience, types and length, mechanical aids, (footnotes, maps, charts, etc) business research in Nigerian scope,. Problems and possibilities. References, types.

### **LAW 323: Company Law (3 credit units)**

Types of companies, company function, procedures and documentation, issue and transfer of shares, shares versus debentures, member, meeting and resolution, duties of officers/directors; secretaries, auditors, etc. Prospectus and statutory books. Profits available for distribution, holding and subsidiary companies. Powers and duties of liquidators, secretarial practices, provisions related to disclosure in corporate accounts; Reconstructions and amalgamations and takeovers, companies Acts of 1968 (as amended), Companies and Allied Matters Acts of 1990 as amended.

### **POL 322: Elements of Government (3 credit units)**

## **400 LEVEL**

### **FIRST SEMESTER**

#### **ACC 411: Advance Financial Accounting I (4 credit units)**

Review of ACC 321. Accounting Foreign Currency transaction following the provision of IAS 21 and IAS 29 including Foreign Branches, Accounts of insurance companies and building societies, Accounts of Banks and unit trust including IAS 19, pension and provident fund account group also theoretical regulatory framework of consolidation accounts basic principle of consolidated statement of profit or loss and other comprehensive income. Statement of financial position (including pre and post – acquisition profit/losses, acquisition at different dates). Treatment of dividend in-group accounts and the valuation of assets for consolidation purposes, vertical and mixed group consolidated statement of financial position of associated companies. IAS 10: Events after the Reporting Date, IAS 24: Related Party Disclosure, IAS 27: Consolidated Financial Statement, IAS 28: Investments in Associates, IAS 36: Impairment of Assets, IFRS 3: Business Combination, IFRS 5: Non Current Assets Held for Sales and Discontinued Operations

#### **ACC 412: Public Sector Accounting & Public Finance I (3 credit units)**

Introduction to public sector Accounting. Distinction between public and private sectors, basic Accounting forms not-for profit (NFP) classification basic characteristics of government Accounting. Purposes, uses of government Accounting information Accounting concept and principles applicable to Government Accounting. Comparison between public sector accounting and private sector accounting. 'Structure of governmental accounting in Nigeria, sources of government revenue and expenditure. Nature and structure of public expenditure, authorization of government expenditure-the vote book, funding principles; types, financial accounting and analysis, use of self accounting systems, fund accounting systems, statement of final accounts.

**ACC 414: Management Accounting II (3 credit units)**

Capital investment appraisal techniques (Returns on capital employed, payback method, discounting techniques). Measurement of divisional performance and control in divisionalised companies including behavioural aspects of accounting, presentation of management information. Pricing and output decisions, transfer pricing, uncertainty and risk analysis, value added, cost reduction and value analysis, cost benefit analysis. Cost estimation, multiple regression and analysis, application of linear programming techniques to a variety of management accounting; problems and limitations of linear programming.

**ACC 415: Auditing and Investigation II (3 credit units)**

Nature, types and methods of investigation; distinction between auditing and investigation. Audit evidence, techniques and procedure including computer assisted techniques, audit report, reporting for different investigations, quality control, review of financial statements, ethics, special engagements and investigations. Recent developments in auditing. Comparative study of auditors responsibility and reporting in different countries.

**ACC 416: Accounting Ethics (3 credit units)**

**ACC 417: Financial Accounting Theory (3 credit units)**

The nature of theory; tools of theory, actions and rules, theory and principles, uses of theory, general accounting theory, consideration of structure of statement of Accounting Standard (SAS) and selected Standards in International Accounting Standards IAS.

**ACC 418: Industrial Work Experience (3 credit units)**

Students are expected to utilize their 300 level 3 months vocation for industrial training, this will be supervised and graded.

### **BUS 411: Strategic Management and Business Policy I (3 credit units)**

Integrated and multi-disciplinary approaches in solving business problems. Corporate planning and control, strategic planning and control, management planning and control with particular reference to personnel, marketing and production administration, conflicts between management control and strategic planning, operation management's, planning and controlling specific tasks.

## **SECOND SEMESTER**

### **ACC 421: Advanced Financial Accounting II (4 credit units)**

Interpretation of accounts including the use of accounting ratios, fund flow statements, accounting for inflation, Nigerian and international accounting standards, miscellaneous accounts such as contract awards, accounts of different types of financial institutions, accounts of real estate, oil and gas accounting, accounting theory relating to income, depreciation, inventory valuation, goodwill, research and development and other deferred revenue expenditure, consistency, comparability, flexibility etc. pooling of interest" Interpretation of group financial statements IAS 7: Statement of Cash flow, IAS 10: Events After the Reporting Date, IAS 24: Related Party Disclosure, IAS 33: Earnings Per Share, IAS 34: Interim Financial Reporting, IFRS 10: Consolidated Financial Statement, IFRS12: Disclosure of Interest in other Entities

### **ACC 422: Management Information Systems (3 credit units)**

The meaning, objective and requirement of MIS in organization. Information needs of management and design of MIS, managerial need of the information output as a basis for developing criteria and systems. Computer environment and sue of computer based techniques. Electronic data processing (EDP) methods; batch processing, real-time processing. Computer reports: - error reports, exception reports, etc. report format, form design. Flow charting, networking systems analysis. Design techniques and documentation. User environment in systems development and life cycle. Computer service bureau and cyber services; office automation; Email, internet, etc.

### **ACC 423: Taxation II (3 credit units)**

Administration and computation of petroleum profit taxes; principle, allowances and assessments, capital gains tax & capital transfer tax; principle and computations tax management, client's taxation advisory service and management of tax practices in relation with revenue authority, nature and purpose of revenue nature, tax avoidance and anti-avoidance laws, investigators by inland revenue back-duty, practical assessment procedure in tax office. Implication of taxation on investment.

### **ACC 424: International Accounting (3 credit units)**

Problems of fluctuation exchange rates accounts for foreign branches and subsidiaries. The problems of different regulating frameworks and standard in preparation of accounts of multinational companies. Intergovernmental national income comparisons. Project financing institutions like the World Bank, IMF, IPO, UNO in different countries. Investment and disclosure by parent companies, methods of transfer of dividends, cost of foreign subsidiary, control problem of foreign companies, methods of transfer of foreign dividends, cost of foreign product, funds for foreign directors etc. National and International Standard governing these treatment of international Accounting Standards (IAS).

### **ACC 425: Public Sector Accounting & Public Finance II (3 credit units)**

Final accounts of local government, health institution, educational institutional parastatals, use of audit department. Cash benefit analysis, planning programming and budgeting system. Federal government controls, public audit and accountability, public debt and fiscal policy, funded and unfounded debts, pensions and gratuities. Recent developments and issues in the public sector – implication of Nigeria's membership in ECOWAS, effect of restructuring public sector, etc. External loans; multilateral, Paris Club, London club, promissory notes, etc, loans policy and consolidation loan rescheduling, equity swap, debt forgiveness. History and evolution of IPSAS and detailed study of IPSAS

### **ACC 426: Multi- Disciplinary Case study (3 Credit units)**

This will cover tools to analyse a basic set of financial statements consisting of statement of Comprehensive income, statement of financial position, cash flow statement and supporting notes; tools that can be used with management information such as budgets and forecast; strategic tools such as PESTEL, five force analysis or SWOT analysis; financial engineering assessment tools and business valuation tools.

### **ACC 428: Accounting Ethics (3 Credit units)**

Accounting and reporting policies, disclosure of accounting policy, methods of recognizing assets and liabilities. Analysis and interpretation of financial statements, types of ratio analysis- trend, inter-firm analysis etc; usefulness and limitation of ratio analysis. Accounting standards, compliance requirements of standards issued by NASB, IASB AND IFAC. International Financial reporting standards ( IFRS). The concept and types of ethics, principles and application of professional ethnics, decision in ethnics, ethnical threats and safeguards, social and environment issues in ethnics , explain and illustrate using information in a given scenario the meaning of business ethics. Identify and explain in the context of a given scenario hw business ethnics and moral duties may be linked, identify and explain in the context of a given scenario how business ethnics and business success may be linked, identify and assess in a given scenario issues of ethics and corporate social responsibility, identify and assess in a given scenario issue of professional ethics and corporate governance in accordance with ICAN code of Professional Conduct and IFAC Code of ethics for Professional Accountants. Identify ICAN professional Code of Conduct and Guide for members. Corporate Governance – Nature , Scope and significance , Corporate Social Responsibilities- Concept and Scope. Case study.

**BUS 421: Strategic Management and Business Policy II (3 credit units)**

**ACC 429: Research Project (6 credit units)**

Original study or investigation of a local problem of an accounting or management nature to demonstrate and improve the skills acquired in BUS 324. Project work is supervised by board members. Bound copies of the research report are to be provided by the students.

***COLLEGE OF BUSINESS AND MANAGEMENT STUDIES***  
**DEPARTMENT OF ACCOUNTING**

**ACADEMIC/TEACHING STAFF**

**FULL TIME**

S/N	NAMES	RANK	QUALIFICATIONS	AREA OF TEACHING AND RESEARCH SPECIALIZATION
1	Dr. Atu, Omimi Ejoor Osaretin Kingsley	HOD Lecturer 1	AAT,1995, Diploma (statistics & computer science) Nsukka,1995, PGD (Computer Science) FUTO, 2003,ACMA, 2003, MBA,(Accounting), FUTO, 2004, ACA 2009, M.Sc (Business) 2009, FCMA 2010, ACTI 2010, M. Sc (Accounting) 2010, IPA (Australia) 2014, FCTI 2015, ICP (C/W Dominica) 2015, B.Sc Accounting and Finance 2 <sup>1</sup> Upper Division ( C/W Dominica) 2015, Ph.D (Accounting) 2016, FCA 2016.	Business Statistics, Computer Application in Accounting, Financial Management I &II Quantitative Analysis for Business Decisions, Laws and Accounts of Bankruptcy /Executorships Management Information System, Advanced Financial Accounting I&II Auditing & Investigation, Accounting Ethics, Multi-Disciplinary Case Study.
2	Dr. (Mrs.) Mary Josiah	Lecturer 1	HND (Accounting) 2001 PGD (Accounting) 2007 M.Sc (Accounting) 2010 CNA, 2011, Ph.D (Accounting) 2015	Introduction to Financial Accounting, Financial Accounting I, Intermediate Financial Accounting
3	Mr. Agbo Sunny	Lecturer 1	B.Sc. (Accounting) 1999 MBA (Banking & Finance) 2004, Diploma (Accounting) 1991, Diploma (computer Science) 1996 ACMA 2007 FCMA2012, FCIFC 2012, CNA 2012, ACTI 2015	Auditing I, Cost Accounting, Taxation I &II, Management Accounting I& II.
4	Dr. Raph Adeghe	Senior Lecturer	B.sc Eco/Stat UNIBEN M.Sc Banking & Finance M.Sc Economics UNIBEN Ph.D , FCNA	Auditing and Investigation Public sector accounting & Public Finance
5	Mr. Clement Edojor Ozele	Assistant Lecturer	B.Sc. (Accounting) 2003, M.Sc (Accounting) 2010, CNA 2011, ACTI 2015	Financial Accounting I & II Advanced Cost Accounting
6	Atu, Oghogho Gina	Lecturer II	B.Sc First Class Honours (Accounting) 2010, NIM 2011, M.Sc (Accounting)2013,	Financial Management, Computer Application in Accounting
7	Miss. Okemuo Chinyere	Administrative Staff		

## ACADEMIC/TEACHING STAFF LIST

### VISITING PROFESSORS/ ASSOCIATE LECTURERS

S/N	NAMES	RANK	QUALIFICATIONS	AREA OF TEACHING AND RESEARCH SPECIALIZATION
1	Prof. A.E. Okoye	Visiting professor	B.Sc., M.Sc. (Econs/Accounting) Ukraine, 1980, Ph.D. (Kiev), 1985, FCNA 1994, ACTI 1998	Financial Accounting, Cost Accounting, International Accounting
2	Prof. Prince F.O.I Izedonmi	Visiting professor	B.Sc (Accounting) UNIBEN, 1982, MBA 1990, UNIBEN, Ph D (Business Administration), 1999, UNIBEN, FCA	Auditing, Public-Sector Accounting, Strategic Management and Business Policy, Business Research Methods
3	Dr. Jafaru Jimoh	Senior Lecturer	ACA 1987, MBA 1995, ACTI, 1995, FCA 1998, FCTI, 2002, M.Sc. (Accounting) 2005 Ph. D (Accounting) 2010	Advanced Financial Accounting, Mathematics of Finance
5	Mr Edogiawerie Monday Nosa	Lecturer 11	B.Sc Ed (Econs) 1987 M.Sc Accounting (2012) ACA 2002 ACTI 2004 FCA 2010 Ph.D, Finance (In-view)	Accounting Ethics, Auditing & Investigation

### EXTERNAL EXAMINER

**Full Name:** Ofuan James Ilaboya  
**Qualifications:** B.Sc. Accounting, 1995  
M.Sc. Accounting, 2000  
MBA, 2002  
Ph.D. Financial Management, 2012  
FCA, 2011  
ACTI, 2006

**Present Institution:** University of Benin

**Position:** Associate Professor

**Number of Publications:** 53

**Subjects moderated:** All Courses

**DEPARTMENT OF BANKING AND FINANCE  
B.Sc. (Banking and Finance Programme)**

**HEAD OF DEPARTMENT'S REMARK**

**INTRODUCTION**

Igbinedion university Okada was the first private university in Nigeria with registration certificate No. 001 presented to the founder/proprietor and the honourable chancellor, Sir (Dr) Chief Gabriel O. Igbinedion, the Esama of Benin kingdom, by the Federal Government of Nigeria on 10<sup>th</sup> of May 1999.

The University, however, began its academic operations on 5111 October 1999 with 112 students.



Within the span of thirteen academic sessions from 1999/2000 to 2012/2013 the University has attracted students not only in Nigeria but also from other countries. In particular, the University has attracted students from all 36 states of the federation and Federal Capital Territory (FCT) Abuja as well as from foreign countries. The staff mix of the university also reflects this national spread or federal character and, right from its inception to-date, the University always has a good number of foreign nationals among its teaching and non-teaching staff thus, Igbinedion University Okada can be rightly described as one having a strong federal character, one with strong attraction for students within and outside Nigeria, a university of choice with a difference, and a private university with a clear vision, strong sense of mission and objectives poised to take its place gradually in the comity of similar Ivy League Universities in the UK and the USA.

### **Mission Of The University**

To pursue excellence in teaching, research and scholarship through the provision of unequalled range of facilities and opportunities for education, training and employment for all those able to benefit without any kind of discrimination.

To advance human advancement, prosperity, and public welfare through teaching and research that encourage application of knowledge, promote discipline, emphasize self-employment, and to acquire and manage resources effectively to achieve these aims.

### **THE DEPARTMENT INTENDS TO ACHIEVE THIS MISSION THROUGH**

- ❖ Offering state-of the art training that prepares its graduates for responsibilities of the world of work and will produce graduate that are the most sought-after by all employers of labour as well as postgraduate schools and research institutes;
- ❖ Establishing institutional linkages for mutually beneficial relationships; and
- ❖ Striving to become a centre of excellence where expertise and facilities to accelerate the pace of the nation's development can be provided.

In this way, the department will contribute to the realization of Igbinedion University's mission of "advancing human development ... through teaching and research that encourage the acquisition and application of knowledge"

### **ADMISSION REQUIREMENTS**

Candidates are admitted into the undergraduate degree programmes of the department in any of the following three ways:

- ❖ Through University Matriculation Examination (UME)
- ❖ By Direct Entry
- ❖ Through Inter-University Transfer.

Each department within the University has its own specific requirements with respect to admission, but these in general conform to the minimum University Matriculation requirements. The requirements for each Department are specified in the appropriate sections of Departmental programmes.

### **UNIVERSITY MATRICULATION EXAMINATION (UME)**

#### **ENTRY MODE**

In general, candidates seeking admission through University Matriculation Examination (UME) into 100 level of the four year programme leading to the award of Bachelor of Science (Bsc.) degree of Banking and finance should possess a minimum of five credit passes at GCE/SSCE/NECO examinations which must include English language, Mathematics, Economics or Commerce. Equivalent of five credits obtained in examination conducted by the National Board for Technical

Education (NABTEB) are also accepted. In addition to these requirements, the university requires that students make an acceptable pass, on the university matriculation Examination (UME) conducted by the Joint Admission and Matriculation Examination (JAMB) which represent a global screening examination. In addition, the university normally further screens candidates for admission into its degree programmes.

### **DIRECT ENTRY MODE**

Candidate seeking Direct Entry admission to the 200-level of a ,degree program should posses at least two subject at the Advance level in the GCE student with two subject at the NCE, or with Diploma degree of recognized institution are accepted provided that they have satisfied all University Matriculation requirements. Furthermore, the University reserves the right of further screen students for admission.

### **INTER-UNIVERSITY TRANSFER**

Candidates wishing to transfer into the department from another university must obtain and till the inter-university transfer from the university's admission office. All such application for inter-university transfer will be treated on their own merits. All inter- university transfer candidates will normally be admitted into not higher than 200 level of the receiving program me.

No candidate will be admitted into the department unless the department is satisfied that the candidate has met the minimum academic requirement for admission to the programme the candidate has chosen

### **COURSES CREDIT AND GRADING SYSTEM**

The University operates a course credit system in which subject areas are broken down into examinable units called courses. all courses offered in the department are assigned credits and students earn credits for courses passed.

### **CREDIT UNIT**

A credit unit refers to a specified number of hours of students teacher contact for lectures / tutorials of one hour per week semester of fifteen weeks hence one credit unit is one hour of lectures or tutorial per week semester of fifteen weeks or an equivalent amount of study, such as seminars, laboratory, industrial attachment, or fieldwork, or any combination of these. For example, one week of industrial attachment may be equivalent of one hour of lecture per week per semester.

### **PROBATION**

If at the end of the session a student grade point average (GPA) is less than 1.50, then he/she will be placed on probation for a special period of one full session. If at the end of this probation period a student's SPA is still less than 1.50, then the student will be asked to withdraw from the programme of study. A student who is so withdrawn need not leave the university; he may transfer to another programme within the university.

### **GRADE POINT AVERAGE (GPA)**

Grade point average (GPA) is a measure of the average performance of a student for a semester or session expressed in grade points in all the courses taken by the student during the semester or session expressed in grade points earned in all the courses taken by the student during the semester or session. The grade point average (SPA) is derived from the actual raw scores in given courses obtained by a student. It is computed by multiplying the grade point (G.P) attained in each courses by the credit units assigned to that course and then dividing the sum by the total credits taken for the semester or session.

### **CUMULATIVE GRADE POINT AVERAGE (CGPA)**

This is an up-to date average or mean of the grade points( G.P) earned by a student at any point in his/ her programme of study. The cumulative grade point average (CGPA) depicts the students overall performance in his/her programme of study at the given time, it is derived by multiplying the grade

points earned by the students in each courses taken by their respective credits units and summing these products for all the courses taken to date and then dividing this aggregate sum by the sum of the total credits of all the courses registered by the student.

### **WORKLOAD**

This refers to the specified minimum and maximum number of credits a student is expected to take during the semester and session. A Student shall normally, in any academic year, be allowed to register for a minimum of 40 credits and a maximum of 50 credits. This means that no student earn more than 50 credits at the end of each academic year. Student should take between 20 and 25 credits in each semester in any academic year.

### **COURSE CODING**

All course offered in the department are coded by assigning them a three lettered prefix followed by three digits numbers. The three- letter prefixes and the three digits numbers are assigned to represent the department, level, semester and major (in the case of the B .sc in Banking and finance programme).

The department courses are courses offered and taught by the department.

### **REGISTRATION**

At the beginning of every session, all students are to register for their entire course for that session, using registration forms provided by the Examination and records unit of the registry. Recently, on-line registration was introduced, and has become the required practice. A student is not registered for an academic session unless and until the on-line registration procedures have been completed. Two weeks shall normally be allowed for registration every session. Late registration fee is charged as determined from time to time by the University. A student who is registering late must attach his payment receipt to his registration form.

Any student who fails to register within two months of the beginning of the session shall not be allowed to register for that session, and shall forfeit the benefit of taking any examination in any semester of that session. Such a student shall be deemed to have voluntary withdrawal from the University, and shall be readmitted in the subsequent session only with the approval of the senate. For the Student admitted to 100 level or through Direct Entry, his/her admission shall be considered to have lapsed.

Students who attend lectures in course that they have not registered for shall do so only with the express permission of the lecturer(s) in charge of the courses. However, such students shall not earn any credit from such courses.

### **COURSE ADVISERS**

The head of department appoint a course adviser from among the academic staff of the department for each level of students. The course adviser shall advise the students on university regulations as they relate to their studentship as well as ensure that the students select course in accordance with the regulations governing the award of the degree for which he has enrolled. He/she has the primary responsibility of ensuring that the students duly register for the course and credits required of their level and status, all register forms, course forms, and entry into Examination forms must, therefore, be approved and signed by the student's course adviser before they undergo other processing. Course adviser are expected to exercise these responsibilities with diligence and devotion to duty

### **COURSE LISTING**

Courses for each degree programme are categorized as follows:

a) **CORE** course are those which a student enrolled in the relevant degree programme must take but also pass it to qualify for award of the degree. For each degree programme, its core course is so indicated in the programme curriculum.

b) **COMPULSORY** courses are those taken by a student according to his area of specialization in the B .Sc in Banking and Finance programme. The compulsory elective course must be taken as a bloc to meet the degree requirements of majoring in the students chosen area of specialization.

c) **COMPULSORY ELECTIVE** course are those taken by a student according-to his area of specialization in the B. Sc in Banking and Finance programme. The compulsory elective course must be taken as a bloc to meet the degree requirements of majoring in the students chosen area of specialization.

d) **ELECTIVE** course are those taken by a student according to his interest (but, however, subject to departmental approval) and are additional to the CORE, COMPULSORY and COMPULSORY ELECTIVE courses he must take. Elective course are usually taken from other departments within and outside the department. The course advisers will advise the students on the elective courses to take, when necessary, and from which departments **PRE-REQUISITION COURSES**

Courses may have pre-requisites. Pre-requisites courses are those courses a student must take and pass before being allowed to register for following (relevant) higher-level courses. However, a student who fails to pass a pre-requisite course may be allowed to register concurrently for a following higher-level course, provided such is approved by his/her department.

### **CHANGE OF COURSE**

Students may add or drop courses for which they have registered within one month of the beginning of lectures. However, such changes shall be allowed only subject to meeting the requirements of the receiving department.

### **DURATION OF DEGREE PROGRAMME**

Generally, the degree programmes in the college will be a minimum of 3 years duration for Direct Entry students and 4 years duration for the UME students .The maximum number of years allowable for a course of study to earn a Bachelors degree is 6 years.

### **GRADUATION REQUIREMENTS**

For a student to qualify for graduation from any of the B.Sc. degree programmes in the college, he/she must have passed all the prescribed courses in addition to satisfactorily meeting the Industrial Training requirements (where necessary), and passing all the General Studies courses of the University.

The minimum number of earned credit required for graduation is 120 units, at least 30 credits accumulated in each session for a four-year degree programme as follows:

- 30 credit units from 100 level courses
- 30 credit units from 200 level courses
- 30 credit units from 300 level courses
- 30 credits units from 400 level courses

For a three-year programme, a minimum of 90 credit units are required for graduation, at least 30 credit accumulated in each session as follows:

- 30 credit units from 200 level courses
- 30 credit units from 300 level courses
- 30 credit units froth 400 level courses

### **SEMESTER EXAMINATIONS**

Students shall take examination in all courses they registered for at the end of each semester, The semester examination shall contribute 70 percent of the total marks for each course at the end of the

semester. Credits will be assigned to courses passed. Marks scored for any courses not originally registered for will be disregarded. The Grade Point Average (GPA) will be calculated on the basis of the total number of courses registered for during the semester, whether passed or failed.

### **CONTINUOUS ASSESSMENT**

There shall be continuous assessment in all courses offered in the department. The continuous assessment consists of written assignments, term papers, periodic tests/quizzes, a mid-semester examination, and attendance at lectures and tutorial. The continuous assessment shall contribute a maximum of 30 percent of the total marks for each course at the end of the semester.

### **MODERATION AND EXAMINERS**

All the examination question papers from 100 to 400 levels shall be moderated by external examiners appointed for the different levels, at the beginning of each semester the external examiners shall vet the course outlines for each course offered at the level(s) for which he/she is responsible. The external examiner responsible for the 400 level shall also participate in the determination of overall results and in the classification of degrees.

### **INTERNAL EXAMINERS**

Each course offered in the department shall have at least two internal examiners. There is a Departmental Board of Studies and a Department Board of Examiners. The Head of Department is the Chairman of two boards, the departmental board of examiners shall deliberate and make recommendations to the college Board of studies on all matters relating to examinations.

### **DEPARTMENTAL EXAMINATION OFFICERS**

The head of department is the chief examiner of the department and is responsible for the proper conduct of examinations in the department. However, he is required to appoint an Examinations Officer from among the academic staff of the rank of lecture II and above. The Examinations officer is responsible to the Head of Department in all matters relating to examinations, he will be in charge of recording, compilation, and presentation of examination results to the Departmental Board of Examiners.

### **REGULATIONS GOVERNING THE AWARD OF THE DEGREES IN THE DEPARTMENT**

1. Instructions in the department of Banking and Finance shall be by courses and students shall be required to take an approved combination of courses as may be determined from time by the University Senate on the recommendations of the Departmental and college Boards of Studies.
2. The approved period of study for the award of the degree shall not be less than 6 semesters or three years for Direct Entry students, and eight semesters or four years for UME students.
3. All undergraduate courses offered in the department shall be full time.
4. A student shall normally be required to withdraw from the Department if he/she fails to achieve a grade Point Average (GPA) of 1.50 after two consecutive years. However such a student may transfer to another programme in any Department within and outside the College that may be willing to accept him or her.

### **GUIDELINES FOR EXAMINATIONS AND GRADING**

The following procedures and guidelines are operative:

#### **Examinations**

- (a) All lecturers are required to set a minimum of twelve questions in their courses, while the external examiner is expected to choose six questions from the 12, and the students are required to answer four questions out of the six.

- (b) No examination shall be administered at any level unless moderated by the external examiners approved by the Senate.
- (c) The time allowed for written examination shall normally be on the basis of not more than 1 hour for each credit unit of the course and not less than two and half hours in total. The time allowed for any theory only paper shall not exceed 3 hours.
- (d) Not more than one (1) course shall be examined in one paper.
- (e) Other forms of examinations may include practical examinations, inspection and assessment of practical work, note books, project work, special reports, and so on. However, the form of the examination must be specified by the Department and approved by Senate on the recommendation of the Departmental Board of Studies.
- (f) Every course shall be examined during the semester in which it is offered and candidates will be credited with those courses in which they have passed.

### **Grading**

- (a) All courses shall be graded out of a maximum of 100 marks and all marks shall be entered in numerical scores.
- (b) Continuous assessment shall be regarded as part of course examinations, but marks scored through continuous assessment shall not constitute more than 30 percent of the full marks for the course.
- (c) A candidate who obtains less than 45 marks for a course (continuous assessment Scores inclusive) shall be deemed to have failed the course.

### **EXAMINATION INSTRUCTIONS TO ALL STUDENTS**

- a) Only students duly registered for courses and get their results.
- b) Every student must write examinations at the venues designated for them. Non-compliance with this instruction could lead to loss of such student's script.
- c) No student will be allowed into the examination venue after 30 minutes of the commencement of any paper.
- d) For easy identification in the examination halls, each candidate must have with him/her the University identity card, school fee receipts and Entry into Examination Forms duly signed by the designated officers of University.
- e) No student should leave the examination hall within one hour of the commencement of the examination.
- f) All students must read the instructions on the front cover of the examination booklet and abide by them. All information required on the answer booklet must be carefully completed.
- g) All answer scripts must be handed in at the end of the examination.
- h) All students must complete the Attendance Sheet relating to the examination.
- i) Students must adhere strictly to examination instructions. Improper conduct during examinations is punishable as specified in the University's Students Code of Conduct.
- j) A student may not absent himself from any required examination or continuous assessment tests unless by permission of the lecturer in-charge and the Head of Department.

### **OTHER REGULATIONS TO BE OBSERVED BY ALL STUDENTS**

These regulations should be adhered to by all students for the smooth administration of the Department and to ensure an environment that is conducive for all:

- (a) A Student is entitled to the membership of the Department only when he is fully registered in his department.
- (b) Every student is required to attend lectures for the two semesters in the session, and to sit for all the examinations for which he /she has registered. If, however, any student is prevented from doing these by illness or other unforeseen circumstances, such a student must report the

reasons to his/her Head of Department who will forward the same to the Dean of College and the Registry.

- (c) All students are required to conduct themselves in a quiet and orderly manner within the classrooms and the University premises.
- (d) A student shall not change the course of study for which he has registered without - the consent of the Head of Department and the Dean of the College.
- (e) A student who willfully damages any Department property shall be required to pay for its repair or replacement.
- (f) Any student who does not perform satisfactorily in his academic work may, on the recommendation of the Department and College to the Senate, be withdrawn from the University.
- (g) Belonging to any secret cult or organization is punishable by expulsion and prosecution.
- (h) All students admitted to first degrees are required to present themselves for medical examination by the University Medical Officer in their first year (or second year, for Direct Entry students).
- (i) Students should notify the Department of any change in their home or lodging addresses

## RESULTS

Results are published by the department after approval by the senate. The published results show the student's matriculation number, the courses the student took and their credit units, and then the students examination performance in terms of the raw scores and their letter grade equivalents. The information given in the table below is helpful in interpreting a student's performance.

Raw Scores (%)	Letter Grade	Grade Points	Interpretation
70 – 100	A	5	Excellent
60 – 69	B	4	Very Good
50 – 59	C	3	Good
45 – 49	D	2	Pass
0 – 44	F	0	Fail

## CLASSIFICATION OF DEGREES

### Final CGPA Class of Degree

4.50	5.00	First Class Honours
3.50	4.49	Second Class Honours, Upper Division
2.40	3.49	Second Class Honours, Lower Division
1.50	2.39	Third Class Honours

## TITLE OF DEGREE

The department awards Bachelor of Science degrees, and the major discipline in which the degree has been taken is also indicated. B.Sc. (Banking and Finance)

## HISTORY OF THE PROGRAMME/SUB DISCIPLINE/ DISCIPLINE

The Department of Banking and Finance was established in the 1999/2000 academic session along with the other two departments in the Sanusi Lamido Sanusi College of Business and Management Studies. However, the Department was initially warehoused by the Department of Accounting. Professor E.O. Izedonmi, the then Dean of the College, had the responsibility of overseeing the affairs of the Department and nurturing it until it came on its own in the 2002/2003 academic session, with Mr. Benson A. Akintola as the pioneer Lecturer-in-charge of the Department. In the 2003/2004 academic session, the Department graduated its pioneer students who were four (4) in number Twelve (12) students were graduated in the 2004/2005 session, Four (4) students in the 2005/2006 session, twenty (20) students in the 2006/2007 session, seventeen (17) in the 2007/2008

session, eight (8) in the 2008/2009 session, seventeen (17) in the 2009/2010 academic session, one (1) in the 2010/2011 session, and eight (8) in the 2011/2012 session.

The student population currently stands at 18. The breakdown is as follows:

100L	-	02
200L	-	10
300L	-	01
400L	-	<u>05</u>
		<u>18</u>

The staff strength of the Department now comprises 4 academic staff and 2 non-academic staff and every staff individually occupies an office. The Department shares Library with other departments in the college.

## **GENERAL ADMINISTRATION OF PROGRAMME/SUB-DISCIPLINE.**

### **Personnel Administration**

- (a) The Department has six (6) members of staff, four (4) are academic staff while two (2) are non-teaching staff
- (b) Decision making is usually collective; taken at the Departmental Board Meeting:
- (c) Members of academic staff are given the opportunity to study for higher degrees on part-time basis: currently all academic staff have Ph.D
- (d) Members of staff are promoted after three years of service if they are found productive (in terms of teaching and publication).

### **Student's Welfare**

- (a) Academic grievances are handled by the Head of Department and the appropriate level adviser.
- (b) Each level adviser provides counsel and advice on courses offered.
- (c) Examination Questions (twelve) are set by the course lecturers and the External Examiner vets and selects six questions while the students attempt four questions. Examinations at all levels (100L - 400L) are moderated by the two external examiners of the department

### **Examination**

- (a) Examinations are conducted in large halls with students sitting with a space in-between.
- (b) Questions are marked in line with prepared marking schemes.

### **Academic Atmosphere**

- (a) The Department encourages students to dress in a corporate manner while attending lectures
- (b) Students are encouraged to use the library facility during free period.

## **PROGRAMME PHILOSOPHY AND OBJECTIVES**

### **PHILOSOPHY**

The curriculum of the Department is designed to develop the knowledge of the students theoretically and practically for individual self-confidence and creativity. It also aims at producing high caliber Banking Finance graduates capable of holding responsible positions in any organization.

### **VISION**

To be a Department of international standard where Banking Finance knowledge is created, developed and sustained with excellence for the good of mankind.



## **MISSION**

- 1) To develop and pursue excellent teaching and research through the provision of world-class facilities and opportunities for education, training and employment to all those who are able to benefit, without discrimination
- 2) To enhance human advancement, prosperity and welfare through effective and efficient teaching and research that encourage the application of knowledge, promote discipline, honesty and hard work, and to acquire and manage resources effectively to achieve set objectives.

## **OBJECTIVES**

The main objective of the programme is to provide courses of instruction leading to the award of Bachelor of Science (B.Sc.) degree in Banking & Finance. Specifically the programme is:

- a. To provide basic knowledge for understanding and analyzing problems relating to the management or administration of industrial, commercial, public and other human organizations and particularly financial institutions;
- b. To equip the students with skills needed for recognizing and defining problems and taking appropriate decisions using scientific techniques and tools; and
- c. To inculcate in students an awareness of and sensitivity to environmental factors and conditions and their impact on managerial administrative practice and decisions.

Essentially, the focus of the programme is on finance with emphasis on banking. Graduates of the programme will have the twin advantage of:

- ii. Identifying one major area of interest in Finance for possible specialization at post-graduate level; and
- iii. Achieving sufficient professional competence in banking practice and course work and, therefore, be able to qualify in the Chartered Institute of Bankers of Nigeria (CIBN) examinations within the shortest possible time.

## **ADMISSION REQUIREMENTS**

In addition to the general University requirements, the following regulations shall apply to the admission of students into the department:

### **DIRECT ENTRY REQUIREMENT**

- (a) Two 'A' level passes in Economics or Accounting and an additional subsidiary subject. Candidates are expected to possess five credits at SSCE/GCE 'O' Level or their equivalent in subjects which include English Language, Mathematics and Economics Results at 'Q' level and 'A' level must be attained at not more than two sittings or
- (b) A National Diploma/Certificate from approved universities or colleges of technology or Polytechnics with a grade not lower than merit. In addition, the applicant must possess five credits at SSCE/GCE 'O' level or its equivalent in subjects which includes English language, Mathematics, and Economics
- (c) Any credential approved by the senate of the University.

### **A) UME**

Five 'O' level credits including English language, Mathematics, Economics and any two other relevant subjects from any Government approved examining body e.g. WAEC, NECO and NABTEB

### **PROGRAMME/DISCIPLINE**

Structure to include period of formal studies in the University; industrial training, planned visits and projects.

The B. Sc. Banking & Finance programme is structured as follows:

- i) A four-year programme for UME entrants
- ii) A three-year program for Direct entrants

At the end of the third year programme, students are permitted to undergo a three months Industrial Training in various industries. The purpose is to enable them acquire practical orientation/exposure in areas that bear direct relevance to the principles and applications of finance.

### **REGULATIONS GOVERNING COURSES LEADING TO THE DEGREE OF BACHELOR OF SCIENCE IN BANKING & FINANCE**

1. A four-year programme of course shall be provided leading to the degree of Bachelor of Science to be denoted by the letter B.Sc. which may be awarded with Honours or as a Pass Degree in Banking & Finance.
2. Instruction in the department shall be by courses and students will be required to take a combination of courses in the University approved by Senate, or the recommendation to the Departmental Board, as may be determined from time to time.
3. Courses shall be evaluated in terms of course units. One course unit shall be defined as one lecture contact hour per week, while three course units shall be defined as 3 lecture contact hours per week.
4. There shall be four levels of courses; numbered 111, 211, 311 and 411. course numbers shall be prefixed by a three- character programme/subject code. Determination of the class of degree shall be based on performance at all levels. The courses are currently numbered 111 499 under the four-year Degree programme systems.
5. To earn a degree, all core courses must be taken and passed.
6. Every course shall be examined during the semester in which it is offered and candidates will be credited with those courses in which they have passed.
7. Continuous assessment shall be regarded as part of course examinations, but marks scored through continuous assessment shall not constitute more than 30% of the full marks for the course.
8. The approved period of study for the award of the degree shall not be less than 6 semesters for direct entry students and 8 semesters for UME students.
9. (i) The cumulative Grade Point Average System (CGPA) shall be used for the determination of Class of Degree.  
(ii) A CGPA of candidate's CGPA will be determined by the sum of the weighted grade point divided by the total units of all courses registered for, passed or failed.  
(Hi) Only the weighted average system shall be used in determining the grade point average.  
(iv) No student whose grade point average is below 1.0 shall be awarded a degree.
10. A student shall normally be required to withdraw from the department if he fails to achieve 1.0 CGPA after two consecutive years.
11. The list of successful candidates for the degree shall be published with the following classifications: First Class Honours, Second Class Honours (Upper and Lower Divisions) and Third Class Honours.
- 12: All Undergraduate courses shall be full time. -

### **GUIDELINES FOR EXAMINATION AND GRADING**

In order to obtain the Cumulative Grade Point Average of a candidate the appropriate index. (Grade Points) assigned to each range of numerical marks is multiplied by the course unit and the product is added up. The total is divided by total units of courses registered.

2. The final marks for any course shall be a whole number. The grade of the marks shall be awarded on the basis of the final aggregate marks as follows:

<b>Letter Grade</b>	<b>Grade Point</b>	<b>Mark %</b>
A	5	70 and above
B	4	60 – 69
C	3	50 – 59

D	2	45 – 49
F	0	0 – 44

### Cumulative Grade Point Average and Class of Degree

4.5 and above	-	First Class
3.50 – 4.49	-	Second Class Honours (Upper Division)
2.40 – 3.49	-	Second Class Honours (Lower Division)
1.5 – 2.39	-	Third Class Honours

The degree shall be awarded with honours provided a student obtains a Cumulative Grade Point Average that is not less than 1.5 and satisfied the minimum honours requirements.

### Examination

The following procedures and guidelines are operative:

- All lecturers are allowed to set a minimum of twelve questions in their courses while external examiners (at least two) are to choose six questions in each of the courses, students are then allowed to choose four questions.
- No examination at all levels shall be administered unless moderated by external examiners approved by the Senate.
- The time allowed for written examination shall normally be on the basis of not less than 2¼ hours and not more than I hour for each unit course. The time allowed for any one- theory paper shall not exceed 3 hours.
- Not more than 1 course shall be examined in one paper.
- Other forms of examinations may include practical inspection and assessment of practical work, not books, project work, special reports, and the forms of the examination must be specified by the department and approved by Senate on the recommendation of the Departmental Board.

### Grading

- All courses shall be graded out of maximum of 100 marks and all marks shall be rendered in numerical scores.
- A candidate who obtains less than 45 marks shall be deemed to have failed the course.

### Graduating Requirements

The degree of Bachelor of Science in Finance is a four year programme. A student may, however, acquire the degree in less than four years provided the requirements for the degree have been met. To be eligible for the degree, students must have:

- Passed all core courses and any elective recommended for specialization.
- Accumulated at least 176 course units and obtained a CGPA of not less than 1.5.
- Successfully completed the mandatory industrial training and Research project.

### LIST OF STAFF 2012 /2013

S/ N	NAMES	RANK	QUALIFICATION	Area of Teaching and Research Specialization
1.	Dr. Raph Adeghe	Senior Lecturer/ Acting HOD	B.Sc. Economics 1984, M.Sc (Banking & Finance) 1995, MSc Economics 2007, Ph.D. Finance 2011, CADA	Mathematics of Finance, Public Finance, Investment Management, project appraisal, International Finance

			2006, ACM 2005, MNES 2007, ACTI 2011	
2.	Prof S.N.O Ibenta	Visiting Professor	Ph.D (Finance & Development Economics), University of Grenoble (Finance), 1989, M.Sc (Economics-Finance), Grenoble (Finance) 1986, MBA (Management) Nsukka, 1984; B.Sc (combined Honours). Nsukka, 1978.	Capital Market and Portfolio Theory, Financial Management, Strategic Management and Business policy, practice of Banking
3.	Dr. Sunday M. Aguwamba	Senior Lecturer	B.Sc. (2 <sup>nd</sup> Class Upper) Management studies (Sokoto), 1986, MBA (Finance), (Bauchi), 2001 Ph.D Finance 2014 ACIB, 2002	Financial Management, corporate Finance
4.	Dr. Stephen B. Ughulu	Senior Lecturer	B.Sc (Banking and Finance), 2 <sup>nd</sup> class lower division, Uniben 1998; M.Sc (Banking and Finance), Uniben 2000; M.5c (Economics) Uniben 2006; Ph.D (Banking and Finance), IUO 2012	Introduction to money and Banking, Principle of Finance, Monetary Theory and Policy, Capital Market and Portfolio Theory.
5.	Dr. David Omokhodion Umobuarie	Lecturer I	B.Sc. (2 <sup>nd</sup> Class Lower), Economics (OAU) 1974. MBA (Benin), 1991 Ph.D 2916	Bank lending and Loan Administration, Practice of Banking. Entrepreneurship Studies
6.	Dr. (Mrs.) E. Ollor	Senior Lecturer	B.Sc Family Finance, M.Sc Family Finance. Ph.D. Banking & Finance	Corporate Finance

**COLLEGE OF BUSINESS AND MANAGEMENT STUDIES**

**B.5c. BANKING AND FINANCE DEGREE PROGRAMME**

**COURSE SCHEDULE**

**100 LEVEL**

**First Semester Course Offerings**

S/N	COURSE CODE	COURSE TITLE	CREDIT UNITS	REMARKS
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1	BFN 111	Introduction to Finance	3	
2	ACC 111	Introduction to Financing Accounting I	4	
3	MTH 111	Elementary Mathematics I	3	
4	BUS 111	Introduction to Business I	3	
5	ECO 111	Principles of Economics I	3	
6	CSC 113	Introduction to Computers	3	
7	GST 111	Use of English & Library	4	
8	GST 112	Nigerian History and Culture	2	
		<b>TOTAL</b>	<b>25</b>	

### Second Semester Course Offerings

S/N	COURSE CODE	COURSE TITLE	CREDIT UNITS	REMARKS
1	BFN 121	Introduction to Money and Banking	3	
2	ACC 121	Introduction to Financial Accounting II	4	
3	BUS 121	Introduction to Business II	3	
4	MTH 122	Elementary Mathematics II	3	
5	ECO 121	Principles of Economics II	3	
6	CSC 123	Application of Computers	3	
7	GST 121	Entrepreneurial Studies I	2	
8	GST 122	Philosophy, Ethics and Law	2	
9	GST 123	History and Philosophy of Science	2	
		<b>TOTAL</b>	<b>25</b>	
		<b>GRAND TOTAL</b>	<b>50</b>	

### 200 LEVEL

#### First Semester Course Offerings

S/N	COURSE CODE	COURSE TITLE	CREDIT UNITS	REMARKS
1	BFN 212	Business Statistics I	3	
2	BFN 213	Mathematics of Finance	3	
3	BFN 214	Principles of Insurance	3	
4	ACC 211	Financial Accounting I	4	
5	ACC 213	Cost Accounting	3	
6	BUS 211	Principles of Management I	3	
7	BUS 213	Principles of Marketing	3	
8	ECO 211	Micro-Economics	3	
		<b>TOTAL</b>	<b>25</b>	

#### Second Semester Course Offerings

S/N	COURSE CODE	COURSE TITLE	CREDIT UNITS	REMARKS
1	BFN 223	Business Statistics II	3	
2	BFN 224	Business Communications	3	
3	BFN 221	Practice of Banking I	3	
4	BFN 222	Business & Corporate Finance	3	
5	BUS 225	Elements of Banking	3	
6	ACC 221	Financial Accounting II	4	

7	BUS 221	Principles of Management II	3	
8	ECO 221	Macro-Economics	3	
		<b>TOTAL</b>	<b>25</b>	
		<b>GRAND TOTAL</b>	<b>50</b>	

### 200 LEVEL DIRECT ENTRY (THREE – YEAR PROGRAMME)

#### First Semester Course Offerings

S/N	COURSE CODE	COURSE TITLE	CREDIT UNITS	REMARKS
1	BFN 212	Business Statistics I	3	
2	BFN 213	Mathematics of Finance	3	
3	BFN 214	Principles of Insurance	3	
4	ACC 211	Financial Accounting I	4	
5	ACC 213	Cost Accounting	3	
6	BUS 211	Principles of Management I	3	
7	BUS 213	Principles of Marketing	3	
8	ECO 211	Micro-Economics	3	
9	CSC 113	Introduction to Computers	3	
10	GST 111	Use of English & Library	4	
11	GST 112	Nigerian History and Culture	2	
		<b>TOTAL</b>	<b>34</b>	

#### Second Semester Course Offerings

S/N	COURSE CODE	COURSE TITLE	CREDIT UNITS	REMARKS
1	BFN 221	Practice of Banking I	3	
2	BFN 222	Business & Corporate Finance	3	
3	BFN 223	Business Statistics II	3	
4	BFN 224	Business Communications	2	
5	BUS 225	Elements of Banking	3	
6	ACC 221	Financial Accounting II	4	
7	ECO 221	Macro-Economics	3	
8	GST 122	Philosophy, Ethics and Law	2	
9	GST 123	History and Philosophy of Science	2	
		<b>TOTAL</b>	<b>25</b>	
		<b>GRAND TOTAL</b>	<b>59</b>	

### 300 LEVEL

#### First Semester Course Offerings

S/N	COURSE CODE	COURSE TITLE	CREDIT UNITS	REMARKS
1	BFN 311	Nigerian Banking and Financial Environment	3	
2	BFN 312	Monetary Theory and Policy	3	
3	BFN 313	Financial Management I	3	
4	BFN 314	Project Analysis and Evaluation	3	
5	BFN 315	Banking Methods and Processes	3	
6	BFN 316	Law Relating to Banking	3	
7	LAW 313	Business Law	3	
8	ACC 314	Management Accounting	3	

9	EPS 311	Entrepreneurial Studies I	2	
		<b>TOTAL</b>	<b>26</b>	

### Second Semester Course Offerings

S/N	COURSE CODE	COURSE TITLE	CREDIT UNITS	REMARKS
1	BFN 321	Non-Bank Financial Institutions and Markets	3	
2	BFN 322	Comparative Banking	3	
3	BFN 323	Financial Management II	3	
4	BFN 324	Practice of Banking II	3	
5	BFN 325	Financial Systems	3	
6	BFN 327	Quantitative Analysis for Business Decisions	3	
7	BUS 324	Business Research Methods	3	
8	POL 322	Elements of Government	3	
9	EPS 322	Entrepreneurial Studies II	2	
		<b>TOTAL</b>	<b>26</b>	
		<b>GRAND TOTAL</b>	<b>52</b>	

### 400 LEVEL

#### First Semester Course Offerings

S/N	COURSE CODE	COURSE TITLE	CREDIT UNITS	REMARKS
1	BFN 412	International Finance	3	
2	BFN 413	Bank Management and Regulations	3	
3	BFN 414	Capital Market and Portfolio Theory	3	
4	BFN 416	Public Finance	3	
5	BFN 417	Bank Lending and Loan Administration	3	
6	BFN 418	Marketing of Financial Services	3	
7	BUS 411	Business Policy and Strategic Management I	3	
		<b>TOTAL</b>	<b>21</b>	

#### Second Semester Course Offerings

S/N	COURSE CODE	COURSE TITLE	CREDIT UNITS	REMARKS
1	BFN 420	Investment Banking	3	
2	BFN 424	Management Information System	3	
3	BFN 426	Corporate Finance	3	
4	BFN 427	Investment Management	3	
5	BFN 428	Mortgage Banking & Micro-Credit Market	3	
6	BFN 429	Special Research Project	6	
7	BUS 421	Business Policy and Strategic Management II	3	
		<b>TOTAL</b>	<b>24</b>	
		<b>GRAND TOTAL</b>	<b>45</b>	

## **COURSE DESCRIPTION**

### **100-LEVEL**

#### **FIRST SEMESTER**

##### **BFN 111: INTRODUCTION TO FINANCE (3 Credit Units)**

An introduction to the study of finance defines the nature and risks of finance; the firm and its financial objectives as well as financial decisions: the finance functions, financial management as a tool for planning and control: financial intermediaries: financial markets and instruments therein; the stock exchange: finance business: sources and choices of fund acquisition; and capital budgeting.

##### **BUS 111: INTRODUCTION TO BUSINESS (3 Credit Units)**

The objective of this course is to introduce the beginning students of Accounting, Banking and Finance, and Business Administration, Economics and other related social science disciplines to the basic elements of the study of business administration. Topics covered by the course include: survey of business, the modern business world, the composition, nature and functions of business enterprise as well as its role as a social and economic unit.

##### **ACC 111: INTRODUCTION TO FINANCIAL ACCOUNTING I (4 Credit Units)**

This course covers the nature and scope of Accounting the role of accountants, the accounting functions and relationships with the information system of the organization, definition of accounting. historical background of accounting. It also covers other important areas such as source documents and their uses, subsidiary books: meaning, types and preparation: sales day book; purchases day: returns inwards day book returns outward day book and journal proper. The accounting equation, double entry principle books of accounts, including cash book, ledgers. petty cash book and imprest system, posting of entries in the subsidiary books to the ledger, the trial balance, meaning and purpose of the trial balance, errors affecting the trial balance, errors not affecting the trial balance: correction of errors and the uses of suspense accounts. Final accounts of sole traders including adjustment for provision for depreciation, provision for bad debts, accruals and prepayments. Classification of expenditure between capital and revenue, bank reconciliation statement and adjustment of the cashbook will be covered by the course

##### **MTH 111: ELEMENTARY MATHEMATICS 1(3 Credit Units)**

This course is designed to expose students to the rudiments of mathematics and symbolic logic, inductive and deductive systems. simple and compound statements, truth tables, set theory, real and complex number system. binomial theory and equations. matrix algebra and matrices, numeric analysis, differences formula (equal and unequal intervals). Other areas covered by the course include: interpolation and summation techniques. coordinate geometry. Cartesian and polar coordinates, area of triangles and quadrilaterals, the circles, parabola, ellipse and hyperbola, arithmetic and geometric progression.

##### **ECO 111; PRINCIPLES OF ECONOMICS 1(3 Credit Units)**

This course is an introduction to microeconomic theory. Topics covered include basic concept of scarcity, choice, opportunity costs, scale of preference, the methodology of economics, market mechanism (including demand, supply and price determination, theories of consumers' behavior, theory of production. theory of the firm, cost of production. pricing and output under perfect competition. monopoly monopolistic competition. oligopoly. etc.

##### **BUS 111: INTRODUCTION TO BUSINESS 1(3 credit units)**

The objective of this course is to introduce the beginning students of Business, Accounting, Banking and Finance, Economics, and related social science disciplines to the basic elements of the study of business administration Topics covered include: survey of business, the modern business world, the



composition. nature and functions of the business enterprise as well as its role as a social and economic unit.

### **CSC 113: INTRODUCTION TO COMPUTERS (3 credit units)**

General introduction to Computer Science, Computer hardware (History of computer. generation of computers. evolution and types of computers, classification of computers. architecture, data representation in money, typical computer configuration, computer software (History and Generation, software types programming languages and features, introduction to windows & DOS operating system). programming steps. Organization chart of computer centre, categories of computer application, use of computers, advantages and disadvantages of computers, introduction to word processing Data communication (Basic- concept and methods. of Computer networks, Internet and E-mail concept). Data processing (properties, Type of processing. Batch processing), Number representation (Binary mathematics. Number conversion), computer Viruses and protections.

### **GST 111: USE OF ENGLISH & LIBRARY (4 credit units)**

The course will consolidate the fundamentals of English Language including the following: nouns and pronouns (types and features), verbs and tenses (varieties), adjectives and adverbs (varieties, features, and functions), conjunctions, prepositions, interjections, clauses (types), and sentences (types). Language skills of listening, caking. reading, and writing. Choosing topics for writing (planning, assembling and organizing points, outline preparation. factors of unity, coherence, context, originality, mechanical accuracy, and paragraph development).Forms of writing, including narrative, descriptive, expository. argumentative. summary. correspondences, and speech writing. Brief history of libraries. Library and education. University libraries and other types of libraries. Using library resources in enhancing study skills. These include understanding cataloguing systems and classifications, locating books and journals, lending/borrowing, c-learning, c-materials, other reference materials, and indexing. Copyright and its implications, Database resources, bibliographic citations, and referencing.

### **GST 112: Nigerian History, Culture and Moral Studies (2 credit units)**

A study of Nigerian history and culture from pre-colonial times, including the Nigerian's perception of his world; culture areas of Nigeria and their characteristics: evolution of Nigeria as a political entity; concept of functional education; national economy: balance of trade; economic self-reliance; social justice: individual and national development; norms and values; environmental sanitation: principles of good and bad, right and wrong: moral implications of our choices, judgments and actions; morality versus expediency; the role of conscience: moral obligations of citizens.

## **SECOND SEMESTER**

### **BFN 121: INTRODUCTION TO MONEY AND BANKING (3 Credit Units)**

The course covers the nature, forms and functions of money; theories of commercial banking operations; principles and functions of different types of banking institutions: the banks and money supply: money and capital markets; monetary and fiscal policies: inflation and credit creation' history of banking in Nigeria: development of the Central Bank of Nigeria (CBN): general principles of bank lending; bank services; methods of payment through the banking system (both domestic and overseas); the balance sheet structure; the protection of deposit funds; legal reserve requirements and liquidity ratios.

### **ACC 121: INTRODUCTION TO FINANCIAL ACCOUNTING 11 (4 Credit 6 Units)**

This course exposes students to the basics of final accounts of sole traders; further adjustments and presentation in T-form; accounting concepts and conventions; depreciation of fixed assets: meaning of depreciation, reasons for making provisions for depreciation: methods of providing for depreciation

and related accounting theory including SAS9. It also covers various methods of calculating depreciation:

straight line method, reducing balance method, sum-of-the-year's digit method, production hour method, production unit method, revaluation method, sinking fund method. Finally, the course teaches the stock valuation methods and related accounting theories including SAS4, manufacturing accounts, incomplete records, and single entry.

### **BUS 121: INTRODUCTION TO BUSINESS 11(3 Credit Units)**

The topics of this course include a general survey of the functional area of business, concepts in marketing, production management, personnel management, accounting and finance, banking and insurance, and other areas of business. Prerequisite BUS 111

### **MTH 122: ELEMENTARY MATHEMATICS 11(3 Credit Units)**

The focus of this course is on algebraic and transcendental function, expansion of algebraic function with application in business studies, differential calculus, limits and continuity, derivation from first principles, total differentiation: application of marginal analysis, cost functions, indifference curves; maximization and minimization; partial differentiation with application to marginal analysis and comparative statistics. It also focuses on integral calculus, integration with application to marginal total equations, permutations and combinatorial: simple sequences and series finite and infinite series; convergent and divergent series.

### **ECO 121: PRINCIPLES OF ECONOMICS 11(3 Credit Units)**

This course is basically an introductory course on the macroeconomic aspect of economic theory. Topics covered include the subject matter of economics and basic economic problems; the methodology of economics science and the general principles for resource allocation; national income accounting including elementary models of income and employment: money and banking; employment and unemployment; public finance including government budget: international trade: balance of payments, and economic growth and development.

### **GST 121: ENTREPRENEURSHIP STUDIES (2 Credit Units)**

This is a general studies course and deals with the principles and practices of entrepreneurship leading to self-employment. It focuses on the concept of entrepreneurship; the basic characteristics required for successful performance as an entrepreneur; types of entrepreneurs and their role demands: the problem of succession; identifying and utilizing entrepreneurial resources: conducting a market survey and consumer research to identify business prospects; feasibility studies; setting up a business organization, keeping of basic business/accounting records; developing a business plan; identifying sources of financing; the problem of financing and managing growth in entrepreneurial firms.

### **GST 122: PHILOSOPHY, ETHICS AND LAW (2 Credit Units)**

This course involves the study of the main branches of philosophy. Logic will deal with the following: symbol logic, special symbols in symbolic logic-conjunction; negation, affirmation, disjunction, equivalence and conditional statements: method of deduction, rules of inference and bio-conditionals qualification theory. Legal studies will include nature of law, characteristics of the Nigerian legal system, classification of Nigerian law, functions of law in the society, human rights.

### **GST 123: HISTORY AND PHILOSOPHY OF SCIENCE (2 Credit Units)**

An investigation of the origin of life, the evolutionary concept vis-à-vis that of creation; man and his cosmic environment; definition of: science and branches of science; developments in science from ancient times to the present; inventors and inventions; science and man; energy forms, sources and implications; renewable and nonrenewable resources; environmental effects of chemicals, plastics,

textiles, wastes and other materials; chemical and radio-chemical hazards; introduction to the various areas of science and technology.

## **200-LEVEL**

### **FIRST SEMESTER**

#### **BFN 211: PRACTICE OF BANKING 1(3 Credit Units)**

The course aims at promoting the understanding of banking principles, procedures and practice with particular reference to Nigeria. Basic principles of banking relationship of Bankers and Customer Mandates, power of Attorney. Secrecy, Set-offs and appropriation of payments, opening and operation of various types of accounts; private, institutions, clubs, societies, churches and trust accounts; procedures for opening and closing accounts; negotiable instruments, cheques, drafts, duties, and responsibilities of paying and collecting bankers; principles of bank lending: securities for bankers; advances; perfection and realization of securities.

#### **BFN 212: Business Statistics 1(3 credit units)**

This is the first of a two-semester course in elementary statistics as applied to problems in business and management studies. This first segment focuses on descriptive statistics. The topics covered include: Nature of Statistics, Statistical Inquiries: Forms and Designs; The Role of Statistics in Scientific Enquiry; Basic Concepts in Statistics: Data, Population and Sample; Variables: Discrete and Continuous variables; Functional Relationships. Secondary and Primary Data, Source of Data, Frequency -Distributions, Measures of Central Tendency, Measures of Dispersion in Single and Grouped Data; Moments, Skewness and Kurtosis; Laws of Probability; Elementary Probability Distributions:

#### **BFN 213: Mathematics of Finance (3 credit units)**

This course covers aspects of business mathematics useful in solving business, financial, and accounting problems. The topics to be treated include: computations of interest, and period of interest; methods of interest calculations: discounting notes and drafts; customer credit; interest charges on unpaid balances and past due accounts. Discounts and allowances: trade, quantity, cash, markup, markdown. It also exposes students to the methods of calculating costs, including marketing cost analysis, cost and retail prices; as well as calculating payroll and personal income taxes, National Provident Funds and script (stock) dividends. Other areas covered by the course include valuation of goodwill shares/stock and bonds: accounting and business terms/symbols.

#### **BFN 214: PRINCIPLES OF INSURANCE**

This is an introductory study of the principles of insurance and the role of insurance in the economy. Topics covered by the course include: Concept of Risk and Insurable Interest: Classes or Types of Insurance Policies (Marine. Motor. Fire, Fidelity, Loss of Profits and different types of Life Policies), the Principles of Average and Subrogation. Reinsurance. Claims Procedures. etc.

#### **ACC211: Financial Accounting 1(3 credit units)**

Review of ACC 121. further problems on incomplete records, preparation and presentation of final accounts of non-commercial organizations such as clubs, societies, trade unions, churches, mosques etc. Reserves and provisions, accounting treatment of fixed assets and current assets based on SAS 3. introduction to partnership accounts including the final accounts. Changes in partnership: admission/death/retirement of partners including treatment of goodwill, partnership case laws; dissolution of partnership-piecemeal realization in partnership, and Joint Venture Accounts.

#### **ACC 213: Cost Accounting (3 credit units)**

This course gives the history, principles and objectives of cost accounting information, comprising cost accounting aspects (details) of materials, labour and overhead. Integrated and uniform cost

accounting job costing contract and batch costing, process costing, (detailed treatment of joint and by-products as well as spoilage, evaluation of process stock using FIFO, LIFO and average prices. Funds flow statement, break-even and cost volume-profit analysis).

### **BUS 211: Principles of Management (3 credit units)**

This course is a general introduction to the concept, principles, processes, and significance of management within in the context of business and non-business organizations. The course examines in depth the primary managerial activities of planning, organizing, staffing, coordinating, motivating, directing, budgeting, and controlling.

### **BUS 213: Principles of Marketing (3 credit units)**

This course is a general introduction to the concept, principles, processes and significance of management accountings banking and finance, and other disciplines to the basic principles involved in the study of marketing as an academic discipline and the practice of marketing as a business function and a profession. In treating marketing as business function, the courses on micro marketing issues as they relate to the performance of marketing activities from the standpoint of a single business or non-business organization. Issues discussed include the nature and development of market mix variables by the firm and the role and functions of marketing in corporate management. Because this is a beginning course in marketing for some students and also a terminal one for others, coverage will be widened to empower those who may not have the opportunity to study marketing again till they graduate. However, treatment of then primary marketing activities of product planning and development, pricing, promotion and distribution will be deepened to build a strong foundation for the rest. The pedagogical method combines the normal classroom lectures and tutorials with the case method

### **ECO 211: Micro Economic Theory 3 credit units)**

The course builds on the foundation students were exposed to in ECO III, Topics covered include: Theory of consumer behavior: utility approach. Indifference curve approach, Topics in consumer demand market structures, output and pricing under values market structures perfect competition, monopoly monopolistic competition, oligopoly. Other areas covered by the course include the theory of distribution tinder perfect competition, input pricing and employment under imperfect competition.

## **SECOND SEMESTER**

### **BFN 221: Practice of Banking I**

The course aims at promoting the understanding of banking principles, procedures and practice with particular reference to Nigeria. Basic principles of banking relationship of Bankers and Customer Mandates, Power of Attorney, Secrecy, Set-off's, and appropriation of payments. opening and operations of various types of accounts: private. institutions, clubs, societies, churches and trust accounts: operation and closing of accounts: negotiable instruments. cheques, drafts, duties, and responsibilities of paying and collecting bankers; principles of bank lending; securities for bankers' advances; perfection and realization of securities.

### **BFN 222: Business and Corporate Finance (3 Credit Units)**

Working capital management: sources of short term funds, optional working capital level and its application to the control of credit facility: inventory/stock management, cash and short term loan and overdraft: management of long-term finance, determination of cost of capital optional structure, capital market institution and regulatory agency, the market for new issues and methods of issue, the secondary market, lease financing.

### **BFN 22: Business Statistics II (3 credit units)**

This course focuses on inferential statistics. A study of the methods of making inferences or drawing conclusions from sample data to the statistical population from which the sample was drawn and

making decisions or predictions about the population parameters of interest based on sample data. The topics include hypothesis testing and estimation, contingency table analysis and chi-square applications, simple and multiple regression analysis, analysis of variance and covariance.

### **BUS 224 Business Communication (3 Credit Units)**

This course teaches the students the basic rudiments of communication. It defines the different types of communication as well as its basic principles. Other topics include: functions of communication, communication theories and models; linear model, interactional model, transactional model. etc. Corporate and public communication, writing and other communication methods, corporate and public communications are covered by the cover.

### **BFN 225: ELEMENTS OF BANKING (3 Credit Units)**

The course gives the basic concepts and definitions of money and credit: origin, functions and characteristics of money and credit: money creation by commercial banks: different types of money: elementary quantity theory of money: the concept. evolution and structure of Nigerian banking system: different types of banking institutions: Central Bank of Nigeria, commercial banks, development financial institutions e.g. Bank of Industry; non-bank financial intermediaries. The evolution and structure of international banks: World Bank and its affiliates, The IMP including Special Drawing Rights (SDRs). Euro currency. ADB. etc. The course also covers the basic concepts of banking: principles of good lending. the concept of liquidity, profitability, capital adequacy costs, convenience and confidence. Finally, the course covers some critical issues in Nigerian banking including banking habits and its development, government participation in banking. the foreign exchange market, the role of the (bartered Institute of Bunkers of Nigeria and the Financial Institute Training Center in the development of manpower in banking.

### **ACC 221: Financial Accounting 11(3 credit units)**

Review of ACC 211, Bills of exchange, consignment accounts, containers account, goods on sale or return. Royalties account, voyage account, insurance claims accounts, sinking fund accounts; investment accounts, contract accounts including treatment of SAS 5.

### **ECO 221: Macro Economic Theory (3 credit units)**

This course builds on the foundation students were exposed to in ECO 121. It is primarily concerned with the study of relationships between broad economic aggregates. Topics include National Income (accounting and determination) aggregates saving and consumers expenditure, investment, employment, money supply, price levels, balance of payment. The course attempts to explain the determinants of the magnitude of these aggregates and their rates of change-over time.

## **300-LEVEL**

### **FIRST SEMESTER**

### **BFN 311: NIGERIAN BANKING AND FINANCIAL ENVIRONMENT 3 Credit Units)**

The course teaches the growth structure and role of banking and financial institutions in Nigeria: development of the Nigerian financial system and appraisal of their development performances: financial development and real development, the development of the central banking, its role and monetary policy functions; the evolution and structure of banking institutions in Nigeria and their performance. Commercial and merchant banks and cooperative banks; level and regulatory environment and factors affecting the future development of the financial system and policy implications; government intervention in banking will be covered by the course.

### **BFN 312: MONETARY THEORY AND POLICY (3 Credit Units)**

The topics covered by this course include the structure and functions of financial systems and markets, general outline of financial institutions, markets and their roles, competition between banks and other

financial institutions, theories of money, money supply and demand, demand and supply of financial assets, determination of money stock, interest and prices. Other topics covered by the course include stabilization policies such as monetary policy (techniques and efforts), policy objectives, conflicts, trade-offs and coordination, international adjustment and liquidity.

**BFN 313: FINANCIAL MANAGEMENT I (3 Credit Units)**

The emphasis in this course will be to provide the required framework for the rapid understanding of finance. Topics covered in the course are: meaning and goals of finance, mathematics of finance, capital budgeting (certainty and uncertainty), cash flow forecasting techniques for project evaluation, cost of capital, financial leverage, capital structure theories, risk analysis and diversification, dividend policy and internal financing, portfolio theory and management, efficient market hypothesis, securities evaluation, capital asset pricing model (CAPM), etc. Other topics covered by the course include foreign currency transactions, analysis and interpretation of financial statements and reports, business failures.

**BEN: 314: PROJECT ANALYSIS AND EVALUATION (3 Credit Units)**

The course begins with an introduction to the scope and benefits of projects. Topics covered include: the costing of projects desirability; this will require students to go through a rigorous exposure to the tools of project appraisal and the difficulties with special reference to Nigeria.

**BFN 315: BANKING METHODS AND PROCESSES (3 Credit Units)**

The topics covered by this course include banking mechanisms, mode and methods of payments, evolution of methods and processes, instruments of payments in the system including the clearing houses, electronic and remote (iii ids transfer system. and social aspects of banking processes.

**BFN 316: LAW RELATING TO BANKING (3 Credit Units)**

This course will expose students to the essential ingredients of banking laws (statute and regulations), agency, partnership and company law, bankruptcy law, laws in cheques and negotiable instruments and bills of exchange, legal aspects of securities for banker advances guarantees, and other aspects of general and business laws relevant to practicing bankers, banking laws in Nigeria.

**LAW 313: BUSINESS LAW (3 Credit Units)**

This course focuses on the Nigerian legal system, sources of Nigerian law, division of powers between the federal and state governments, status law (its legislations and interpretations, history and development of common law and equity laws). The course will also present the hierarchy of Nigerian law courts, distinction between civil and criminal liability, the nature of tort. the basis and extent of various types (51 interest in their legal person, corporate personalities of the doctrine of ultra vires of contract, law of commercial agency, sales of goods, carriage goods, negotiable instruments, hire purchase and installment purchase; suretyship and guarantees, pledge, lease and exchange control.

**ACC 314: MANAGEMENT ACCOUNTING (3 Credit Units)**

The topics covered in this course are: the nature and functions of management accounting, the dual purpose of planning and control. costs for decision making, marginal costing and contribution analysis. break-even analysis, cost-volume profit analysis, margin of safety, sales mix and CPV charts. Other topics of the course include the concept of opportunity cost and limiting factors, learning curve theory. budgeting and budgetary control, application of qualitative techniques. e.g. statistical methods such as least squares, standard deviation, correlation, regression. etc. Standard costing. all variances including profit. contribution mix and yield variances, interpretation of variances for management decision, planning and operational variances are also included in the course.

## **SECOND SEMESTER**

### **BFN 321: NON-BANK FINANCIAL INSTITUTIONS AND MARKETS IN NIGERIA (3 Credit Units)**

Topics covered in this course include the nature and functioning of the different types of non-bank financial institutions: traditional and informal financial markets; government role in the development of financial institutions and markets; evolution, development and performance of development banks, mortgage finance institutions, insurance institutions, pension funds, provident institutions and finance houses. Other topics covered by the course include the role and economic impact of the institutions, the impact of government legislation and the problems and prospects of the institutions, the money and capital markets: formal and informal; the Nigerian Stock Exchange, the Second Tier Securities Market and the Securities and Exchange Commission.

### **BFN322: COMPARATIVE BANKING (3 Credit Units)**

The course is designed to teach students the dichotomy between specialized banking (i.e. where commercial banks are different from merchant banks) and universal banking (i.e. where banks carry out commercial and merchant banking operations under the same roof). The course will also expose students to the concepts of armchair banking and dynamic banking, distinction between unit banking and branching banking, structure of liabilities-determinants of proportion between time deposits and demand deposits, structure and functions of central bank, central bank and development finance, central bank and commercial banking, development banks and re-finance institutions, techniques of control of rural credit: orthodox and unorthodox comparative discount mechanism, theories of banking: the liquidity principle, the matching principle, short-term lending, medium-long-term lending: and the banking systems in the advanced countries

### **BFN 323: FINANCIAL MANAGEMENT 11(3 Credit Units)**

This course is aimed at preparing students in the techniques of financial management, investment, capital market and institutions and corporate finance. Topics covered are types and sources of funds, inventory management, management of debtors, cash management, cash budgeting, fund flow statement, break-even analysis, ratio analysis, capital market operations in Nigeria, security analysis, capital investment decisions investment criteria: payback, rate of return on capital, discounted cash flows, net present value, internal rate of return, profitability index, uncertainty and risk analysis, and mergers and acquisitions.

### **BEN 324: PRACTICE OF BANKING II (3 credit units)**

Topics covered in this course include loan administration and policy in banks; interpretation and criticism of balance sheets and management accounting for the lending bankers; handling of negotiable instruments and perfecting of securities banking bankers' advances, guarantees, property. Etc, and bankruptcy procedures. Other topics of the course include marketing of various banking specialist services such as investments, insurance, hire purchase, and business advisory services; case study of marketing of financial services in selected advanced countries; understanding security: meaning, function, attributes of good security, types of security arrangement, bank security forms: standard clauses: securities given by companies; charges and their registration; debentures; fixed and floating charges.

### **BFN 325: FINANCIAL SYSTEM (3 Credit Units)**

The major topics covered in this course are the central banks, commercial banks, development banks, investment companies, insurance companies, etc. Other topics include the role, function, evolution, structure and performance of banks; rural banking: marketing of bank services; financial markets; comparative banking and financial institutions; international financial system, e.g. World Bank Group; International Monetary Fund (IMF), African Development Bank (ADB): the unorganized financial

sector: the traditional financial system such as esusu, ajo, etc; topical issues in Nigerian banking and finance, e.g. distress, bad debt, etc.

### **BFN 327: QUANTITATIVE ANALYSIS FOR BUSINESS DECISIONS**

This course introduces the students to the tools of management science methodology and their applications in analyzing varieties of business problems. The course content will focus on mathematical programming, such as linear programming and applications to special types of problems in business management, product mix problems, the transportation problem, transshipment problem, and assignment problem. Other topics in the course include network models such as PERT-CPM techniques and their applications in project management: dynamic programming; game theory: two-person; zero-sum games and their applications in management decision situations; decision theory; queuing theory; inventory models; Markov decision processes and their applications; decision support systems; applications of computer software and packages, including using internet in QA problem-solving will be introduced.

### **BUS 324: BUSINESS RESEARCH METHODS (3 Credit Units)**

This course exposes students to meaning of research; research as a scientific enterprise; basic concepts in scientific inquiry; scientific research: its meaning and importance in academic, business and social research: basic types of research; basic concepts in research (such as variables, concepts, constructs, measurements, propositions, hypotheses, models, theories, laws, and so on): choosing a topic for research; problem statement; research questions; literature review; model building and conceptual framework; research proposal; measurement and scaling; consideration of validity and reliability of measurement; defining the research population; sampling techniques. data collection techniques; data types (primary and secondary data): survey versus experiments: data collection instruments; questionnaire design and methods of administration; office treatment of pre-gathered data (editing, coding, and so on); data presentation (tables, charts, cross tabs, etc); data analysis and interpretation; writing a research report; problems of conducting business research in Nigeria.

### **POL 322: ELEMENTS OF GOVERNMENT (3 Credit Units)**

The topics of this course are: the nature of politics and social organization: the State; the problem of law, constitution and constitutionalism: political ideology; the classical heritage, Plato, Aristotle. Stalinism and Pax Romana Revolt; towards the mass man; organs of government (national governmental institutions): public administration, political parties and pressure groups; public opinion and propaganda; elections; international order.

## **400-LEVEL**

### **FIRST SEMESTER**

#### **BFN 412: INTERNATIONAL FINANCE (3 Credit Units)**

This course introduces students to the basis of trade: the theory of comparative costs and comparative advantage, impediments to trade; balance of payments; structure, interpretations and problems of definition; causes of imbalance and methods of adjustment; analysis of official intervention; stabilization funds and exchange controls; payment abroad; various forms of making payments abroad, banking services and facilities available for this purpose: problems and risk of Importation and exportation: official and unofficial assistance available to overcome the problems; the theory and practice of foreign exchange (spot and forward rates, fixed and flexible exchange rates. speculation).

#### **BFN 413: BANK MANAGEMENT AND REGULATIONS (3 Credit Units)**



The contents of this course include policies and procedures employed in banking institutions; corporate financial planning. Decisions, goals and management; capital management and capital adequacy; test of solvency (i.e. CAMEL); risk types, features, and management of bank assets and liabilities: liquidity management in banks; marketing of banking and financial services and competition among banks; manpower training and development for better management performance; management of two categories of banking institutions: commercial-banks and investment banks: bank-customer relationship; features of negotiable instruments and other diverse aspects relating to account holders; criteria for lending to borrowers; universal banking: the regulatory frameworks/laws of the monetary authorities and their implications for banks and other financial institutions: banking act of 1952; formation of the Central Bank of Nigeria (CBN Act of 1958); CBN control of banks activities; CIBN Act No.12 of 1990; the CBN Act No.24 of 1991; banks and other financial institutions Act No.25 of 1991; Nigerian Deposit Insurance Corporation (NDIC) Act No.22 of 1988; Money Laundry Act No.3 of 1995; failed banks (recovery of debts and financial malpractices in banks Act No. 18 of 1994; other current banking regulations.

#### **BFN 414: CAPITAL MARKET AND PORTFOLIO THEORY (3 Credit Units)**

The course focuses on portfolio approach to the selection of financial assets and investment in financial assets. It is intended to enable students understand how to effectively participate in the capital market by utilizing the mass of data available in the financial market institutions (evolution, structure, legislation. functions and problems); the Nigerian Stock Exchange. the Abuja Commodity Exchange. Other topics covered in the course include portfolio price; CAPM for evaluating portfolio performance; expected return on portfolio; risk measurements; two-assets case; N-assets case; efficient market risks; the optimal portfolio; risk and tinting of return; risk adjustment; participation by students in the models for evaluating portfolios in the Nigerian capital market.

#### **BFN 416: PUBLIC FINANCE (3 Credit Units)**

This is an intermediate course and topics covered include: government revenue and expenditure; size of government spending, consumption and expenditure; criteria for evaluating public goods and private goods; social balance; spill-over; revenue sharing formula in Nigeria; public debt and the application of Pareto optimality to issues of revenue allocation and Nigeria's experience in the light of different venue allocation exercise.

#### **BFN 417: BANK LENDING AND LOAN ADMINISTRATION (3 Credit Units)**

This courses focuses on the objectives of bank lending and credit administration; lending appraisals and decisions; types of loans; security/collateral acceptable to lending bankers and the mode for perfection; constraints of bank lending; pricing of loans; loans supervision and monitoring; problems of default and bad debts; recovery strategies. -

#### **BFN 418: MARKETING OF FINANCIAL SERVICES (3 Credit Units)**

The course introduces students to the concept and role of marketing in the financial services delivery industry: how services are different and the implications of these differences for services marketing; the special characteristics of financial services: understanding customer/client behavior and decision processes in the service sector; customer orientation: developing brand and customer loyalty in the financial services industry; marketing segmentation; targeting and positioning in the service industry; developing financial services/products and product and brand management in the financial services industry; developing and managing distribution channels in the financial services industry: the impact of technology on service distribution system; developing and managing marketing communication process in the financial services industry; developing competitive strategies in the financial services industry: pricing policies and practices in the service industry; internal and external environmental factors affecting marketing in the financial services industry.

## **SECOND SEMESTER**

### **BFN 420: INVESTMENT BANKING (3 Credit Units)**

The topics covered in this course include: evolution of merchant banks; distinguishing features and functions of merchant banks; laws and regulations guiding merchant banking; merchant bank methods and processes; structure and performance evaluation of some merchant banks and problems confronting them; syndication.

### **BFN 424: MANAGEMENT INFORMATION SYSTEM (3 Credit Units)**

This course introduces - students to the meaning, objective and - requirement of management information system (MIS) in organizations; information needs of management and design of MIS, managerial need of the information output as a basis for developing criteria and systems; computer environment and use of computer- based techniques; electronic data processing (EDP) methods; batch processing; real-time processing; computer reports (error reports, exception reports, etc); report format; form design; flow charting; networking systems analysis; design techniques and documentation; user environment in systems development and life cycle; computer service bureau and cyber services; office automation: e-mail, internet. etc.

### **BFN 426: CORPORATE FINANCE (3 Credit Units)**

This course gives a more advanced treatment of the theoretical bases and/or economic rationale of the investment-financing -decision criteria; valuation objective; single period and multi-period investment consumption of model; theories of valuation and financial policy; investment decisions under certainty and uncertainty; the capital asset pricing model (CAPM) and option pricing; the behavior of stock market prices and efficient market hypothesis; interactions of investment and financing decisions; the theory of optimal capital structure and dividend policy.

### **BFN 427: INVESTMENT MANAGEMENT (3 Credit Units)**

The objective of this course to provide the students with the basic process governing the investment of funds from the standpoint of the investor outside the firm, and decisions as to which industry and company they have chosen.

### **BFN 428: MORTGAGE BANKING & MICRO CREDIT (3Credit Units)**

This course introduces students to the concept and meaning of mortgage banking; evolution of mortgage banking in Nigeria; recent developments in the Nigerian mortgage industry; mortgage products and services in Nigeria: the primary and secondary segments of the mortgage market: the mortgage documents; the mortgage repayment plans, borrower qualification; property analysis; micro-credit market (i.e. traditional and informal financial markets including families/friends/neighbors, self-help savings groups, cooperative societies, professional money lenders, land owners/retailers.

### **BIN 429: SPECIAL RESEARCH PROJECT (6 Credit Units)**

This is a two-semester course in which the student, under the supervision of an assigned lecturer, undertakes a research project in order to gain practical knowledge of, and demonstrate competence in, designing and executive an original study or investigation of a local problem in banking, finance, or any management science-related area approved by the Head of Department. The student writes a research report on the project topic which is expected to demonstrate and improve upon the skills acquired in BUS 324, submits bound copies at the end of the second semester, and defends it before a panel of internal examiners, or the external and internal examiners to earn a grade.

### **BUS 421: STRATEGIC MANAGEMENT & BUSINESS POLICY (3 Credit Units)**

This is the second segment of the two—semester course started in BUS 411. It focuses on the development of business policy as a top management function. The concept of policy and decision making will be examined from the top management perspective and corporate management of human organization as corporate plans, strategies and policies are implemented at all levels of the organization. The concluding parts of the course take particular cognizance of the problems associated with top management planning and control, conflicts between top management control and strategic planning, and planning and controlling specific tasks with particular reference to personnel, marketing and production operations management.

## **DEPARTMENT OF BUSINESS ADMINISTRATION**

### **Welcome Address by the Head of Department**

I am highly pleased to welcome you all, freshmen and returning students to our Department, the Business Administration Department (DBA) at Sanusi Lamido Sanusi College of Business & Management Studies in Igbinedion University, Okada.

I also congratulate all new students who recently joined us; they have made a sound choice, as they will soon find out. The Department is one-stop learning centre for knowledge, professionalism and skills acquisition. At DBA, we fuse learning and practice as a life-long flight.

Please endeavour to maximize your potentials at DBA, by taking advantage of the numerous assistance we have in place for you. Your academic achievement is very important to us. and it is our hope that your stay will be pleasant and memorable.

I also urge you to read this Student Handbook thoroughly. You will find answers to many questions you would have wished to ask; it contains up-dated and new information for both fresh and returning students in-line with the dynamic nature of the learning environment.

Finally, please do not hesitate to approach me or any staff in DBA if you should have inquiry (ies) concerning your studies. We are all hereto assist you.

Once more, you are all welcome.  
Sincerely,

**Dr. S.M. Aguwamba**  
**Ag. Head of Department**  
**Business Administration.**

## **1.00 PROLOGUE**

### **1.01 A Brief History**

The Department of Business Administration, Igbinedion University Okada came into existence in October 1999 as a founding member of the College of Business and Management Studies. Mr. T.O Ogwuseye was the pioneer-lecturer-in-charge, and the Department began with an enrolment of 9 students who graduated in the 2003/2004 academic session.

### **1.02 The Present**

Presently, the Department is part of the Sanusi Lamido Sanusi College of Business & Management Studies and its programmes commenced with the birth of the university in 1999. The student population has steadily grown to 100 in the present academic session (2015/2016), while emphasis in

academic training is orientated towards professional proficiency and managerial competence in all functional areas of business and management.

### 1.03 Programme’s Philosophy and Objectives

#### A-Philosophy:

The philosophy of the B. Sc. in Business Administration programme is to develop both theoretical and practical knowledge, skills and proper attitudes in students, for confidence and entrepreneurship exploits; to be innovative and self-reliant in the fields of business-management, business-ownership and business-scholarship.

#### B-Objective:

The primary aim of the programme is to produce Nigerian graduates in Business Administration, with fervor for innovation and solutions to the country’s myriad business challenges as well to:

- 1) Provide students with knowledge, skills and the right attitude for analyzing and solving problems in management and commerce for both public and private corporations, as well as other human organizations.
- 2) Inculcate superior - decision-making approaches in students especially the analytical skills needed for recognizing various forms of business and management challenges and their solutions.
- 3) Cultivate strong leadership and interpersonal qualities in students, which will prepare them as professionals and business executives in industry, government and non-government organizations.
- 4) Develop students computing, data processing, quantitative techniques, interpersonal and communication skills, as well as their general strategic and entrepreneurial skills.

### 1.04 B.Sc. degree in ‘Integrated Business Administration’

The Department offers a B.Sc. degree in Integrated Business Administration: And it has, as one of its principle goals, the production of seasoned graduates of excellent quality, who would join the larger society as entrepreneurs capable of creating jobs and not looking for them.

The undergraduate programme of the Department is full-time; students may not undertake any regular paid job while enrolled for study.

**1.05** The Department of Business Administration also offers a B.Sc. Business Administration (Part-Time) programme for a period of five years.

**Table A: Faculty’s Teaching & Non-Teaching Staff**

S/ N	NAME	RANK	QUALIFICATIONS	AREA OF TEACHING AND RESEARCH SPECIALIZATION
1	D.G.E. Mbaegbu	Associate Professor	B.Sc. M.Sc., MBA, PhD.	Human Resource Mgt., Organizational Behaviour, Entrepreneurship & International Business
2.	Mrs. Elizabeth Akpeti	Senior Lecturer	B.Sc., MBA, M.Sc., PhD	Statistics, Mathematics, Quantitative Analysis, Operations Research, Production Management.

3.	Sunday M. Aguwamba	Senior Lecturer	B.Sc. MBA., PhD, ACIB	Business Policy & Strategic Mgt., Financial Mgt., Corporate Finance.
4.	Raph Adeghe	Senior Lecturer	B.Sc., M.Sc., PhD, CAN	Mathematics of Finance, Public Finance, Investment Mgt., Project Proposal International Finance
5.	Stephen E. Ughulu	Senior Lecturer	B.Sc., M.Sc., PhD	Money & Banking, Insurance, business Research Methods, Capital Market
6.	David O. Umobuarie	Lecturer I	B.Sc., MBA	Bank Lending & Loan Administration, Entrepreneurship, Marketing of Financial Services.
7.	Atu Omimi-Ejoor	Lecturer I	B.Sc., M.Sc., MBA, Ph.D. ACA	Medium & Small Business Enterprises, Management Information System, Financial Accounting, Cost Accounting.
8.	Macaulay O. Augustine	Assistant Lecturer	B.Sc., M.Sc.	Principles of Marketing, Sales Management, Marketing Management, Principles of Management, Management Information System.
9.	Clement Ozele	Lecturer II	B.Sc., M.Sc.	Organization Behaviour, Materials Management, Cost Accounting

## 2.00 ADMISSION REQUIREMENTS

Students are admitted to the undergraduate programme in Business Administration in any of the following ways:

- Through the University Matriculation Examination (UME);
- Through Direct Entry; or
- Through Inter-university Transfer.

### 2.01 The University Matriculation Examination (UME) Entry

Prospective students who seek admission through the UME, for the 4- year level- 100 programme, leading to the award of the Bachelor of Science (B. Sc.) degree in Business Administration, should possess a minimum of 5 credits at the GCE/NECO/WAEC examinations, the subjects passed must include English Language, Mathematics and Economics or Commerce.

Also, UME-based prospects must obtain an acceptable score on the Joint Admission and Matriculation Board (JAMB) exams. Alternatively, they may offer 5 credits obtained in the examinations conducted by the National Board for Technical Education (NABTEB), in equivalents of the above subjects.

### 2.02 Direct Entry

Candidates seeking 'Direct Entry' to the level-200 programme of the Department should possess at least a pass in 2 subjects of the Advanced Level GCE. Those with passes in 2 subjects at the NCE or Diploma programmes of recognized institutions are also eligible, provided they satisfy the university's matriculation requirements.

### 2.03 Inter-University Transfer

Candidates wishing to transfer from other universities to the Department must obtain and fill-out an inter-University Transfer Form from the Admissions Office. Such applications will be treated on their merits. Inter-university transfer candidates may not be admitted into programmes higher than the 200-level.

#### **2.04 Requirements in General Studies (GST)**

The Business Administration degree in the Department requires students to take compulsory GST courses at the '100' and '200' levels, which they must pass before they can graduate. Also, Direct Entry students must pass or show evidence of having passed all 051 courses; waivers may only be granted to those whose previous universities offer the equivalent of IUO GST programme.

#### **2.05 Requirements in Entrepreneurship Studies (EPS)**

In the second and third years of their studies, students of the Departments are required to take compulsory courses in BPS like all other students of IUO. (Please refer to course descriptions on EPS 221 & 311 for details).

#### **2.06 Requirements on Electives**

Students are required to take elective courses from other Departments within the Business and Management College, as well as from other related Colleges of the University, in the first 2 two years of their studies; while they concentrate in their major field of studies in the 2 final year(s).

### **3.00 COURSE CREDIT AND GRADING SYSTEM**

The University operates the course-credit system made up of study- areas that are broken down into divisions referred to as courses; these courses are examinable units. Also, the courses are assigned credit- loads, thus students earn credits for the courses they pass.

#### **3.01 Credit Unit**

A credit-unit refers to the specified number of hours of student- teacher contact, for lectures/tutorials of 1 hour per week, per semester of 15 weeks. Hence 1 credit-unit is equal to 1 hour of lecture or tutorial per week, or an equivalent amount of study i.e. seminar, laboratory, industrial attachment, fieldwork or any combination thereof.

#### **3.02 Grade Point Average (GPA)**

The GPA measures students average performance for the semester/session, expressed in grade-points-earned in all the courses taken during the semester/session. The GPA is derived from student's raw score in the courses taken; it is computed by multiplying the grade-point (GP) attained in each course, by the credit-unit (CU) assigned to the course and dividing the sum for the total-credits (TC) taken in the semester or session, i.e.  $(GPA = GP \times CU / TC)$ .

#### **3.03 Cumulative Grade Point Average (CGPA)**

This is the collective average or the mean of all grade-points earned by the student at some terminal point in his/her study, or the completion of studies, The cumulative grade point average (CGPA) depicts the student's overall performance in his/her study. CGPA is derived by multiplying the students grade-point earned in each course by the respective credit-unit, and summing the product for all the courses, taken, to the present, and then dividing the aggregated sum by the sum of the total-credit-units of all the courses registered by the student. i.e.  $CGPA = (GP \times CU / TC)$ .

#### **3.04 Work Load**

This refers to the minimum and maximum number of credits students are expected to take during the semesters and sessions. Students may normally register for a minimum of 40 credits and a maximum

of 50 credits in any academic year; i.e. between 20 and 25 credits per each semester in the academic year.

#### **4.00 PROBATION**

A student will be placed on probation for the next session, if his/her Grade Point Average (GPA) is less than 1.50 at the end of an academic session. Again, if at the end of the probation, the student's GPA is still less than 1.50, then the student will be required to withdraw from the programme. A student so withdrawn may choose not to leave the University entirely. He/she may transfer to another programme within the College of Business and Management Studies, or any other programme ready to accept him/her.

#### **5.00 COURSE CODING**

All courses of the Department are coded by assigning them a 3-letter prefix, followed by 3-digit number. The 3-letter prefix and 3-digit number indicates the College, Department, Level and Semester represented. The Business Administration Department courses are thus represented by the prefix: 'BUS'. Other prefixes in the Department are 'MGT' management, 'MKT' marketing; while other programmes in the Business and Management College are 'ACC' Accounting and 'BFN' Banking & Finance.

##### **5.01 Course Level and Semester Codes**

Furthermore, the 3-digit numbers indicating levels and semesters are assembled in 4-group of sequences numbered '111 - 199', '211-299', '311-399' and '411-499'. The first digit in the sequence represents the level of study, the second digit represents the semester, while the last digit is the number assigned by the Department to track the course. Thus the digits representing levels are assigned:

Level 100	'1'
Level 200	'2'
Level 300	'3'
Level 400	'4'

While the first or second semester is denoted by the second digit in the 3-digit coding as follows:

1 <sup>st</sup> Semester	'1' or any odd number
2 <sup>nd</sup> Semester	'2' or any even number

Therefore, for example, BUS 112 refers to a Business Administration Department course that is offered in level-100, in the first semester and is assigned a Departmental tracking number of '2'.

#### **6.00 REGISTRATION**

New and returning students are required to register at the beginning of every new session. All students must register for the courses they will offer during the session, using registration documents from the Examination and Records Unit of the Registry. A student is NOT considered fully registered in an academic session, unless and until his/her on-line registration process is completed. Late registration fee is charged by the University, and a student who registers late must show late-fee payment record, to be bona-fide student of the Business Administration Department.

Any student who fails to register within two months of the beginning of the session, he/she shall not be allowed to register for that session. He/she shall also not be allowed to sit for any examinations in the 2 semesters of the session either. Such student shall also be deemed to have voluntarily withdrawn from the University, and may only be readmitted into subsequent sessions with the approval of the University's senate.



## **7.00 COURSE/LEVEL ADVISERS**

Each course-level (100 to 400 level) has an assigned Adviser. appointed from among the academic staff of the Department, to counsel students on general university regulations; as well, ensure that students register for the courses that facilitate their successful completion of the programme.

Also the Course Level Adviser has the responsibility of ensuring the accurate registration of students in the courses required of their level. The Adviser is as well responsible for ensuring timely and accurate completion of Registration Forms, Course Forms and all Examination Forms submitted by the students. The Adviser is to authenticate student's documentation and advise them on outstanding or carryover courses required from them, before reaching the Departmental Head. Course Advisers are thus expected to exercise high sense of responsibilities and diligence in these duties.

## **8.00 COURSE LISTING**

Courses required to be taken, leading to the award of the B. Sc. (Business Administration) degree are categorized as follows:

### **8.01 Courses with Pre-Requisite**

Courses having pre-requisites are advanced level courses, which a student may not offer unless he/she has passed the lower level course.

However, a student who has not passed a lower level course may be allowed to register for both courses the lower and the higher level course concurrently, subject to the approval of the Department.

### **8.02 Core-Courses**

Core-courses must not only be offered by students of the Department, but they must also be passed, for the award of the B. Sc. Business Administration degree.

### **8.03 Compulsory Courses**

Compulsory courses are those which students must take as part of the degree programme they are registered for. These courses may be offered by the Department or its sister Departments in the College of Business and Management studies.

### **8.04 Elective Courses**

Elective courses, as their name suggest, are chosen according to student's interest, though subject to Departmental approval. These courses are supplemental to the core and 'compulsory courses'. Elective courses may also be taken from other Departments within the college of Business and Management studies, or from other Departments in other Colleges of the University.

Course Advisers are to counsel students on elective courses to take, in and outside the College of Business and Management Studies.

## **9.00 CHANGING OF COURSE**

Students may 'add or drop' courses for which they are registered within one month of the beginning of lectures. However, such changes can only be allowed, subject to the approval of Departments receiving the 'add' or 'drop'.

## **10.00 DURATION OF THE DEGREE PROGRAMME**

The B. Sc. Business Administration degree has a minimum residency of 3 years, for Direct Entry students, and 4 years for UME students. The maximum number of years allowable in the programme, to earn a bachelors degree is 6 years.

## **11.0 GRADUATION REQUIREMENTS**

Students will qualify for graduation upon successfully completion of the under listed:

- He/she has matriculated in the University;
- He/she is duly admitted to the programme;
- He/she has paid all required fees;
- He/she has passed all GST and CS courses;
- He/she has passed all EPS courses;
- He/she has passed all prescribed courses;
- He/she has successfully submitted a Research Project;
- He/she has a CGPA of not less than 1.50; and
- He/she has earned a minimum total of 120 credit-units.

### **11.01 Credit-Unit Distribution: 4-year Programme**

The 120 minimum total credit-units requirement for graduation must be obtained in the distribution of at least 30 credits-units per session, in a 4-year programme as follows:

- 30 credit-units from level 100
- 30 credit-units from level 200
- 30 credit-units from level 300
- 30 credit-units from level 400

### **11.02 Credit-Unit Distribution: 3-year Programme**

For a 3-year programme, a minimum of 90 credit-units are required for graduation, with at least 30 credits accumulated in each session as follows:

- 30 credit units from 200 level courses
- 30 credit units from 300 level courses
- 30 credit units from 400 level courses.

## **12.00 GUIDELINES FOR EXAMINATIONS AND GRADING**

For the purpose of examinations, the following procedures and guidelines are to be adhered to:

### **A. Examinations:**

Lecturers are to set the minimum of 12 questions for Essay examinations; while an External Examiner chooses 5 questions from the 12, and the students answer 4 questions from the 5. Examinations must be moderated by External Examiners before administering them to students. Time allowed for written Departmental examinations shall normally be not more than 1 hour for each credit-unit of the course an examination is set for but not less than 2½ hours in total. No more than 1 (one) course shall be examined on any one paper.

Other forms of examination in the Department may include oral examination, inspection of practical work, assessment of students' work-book, evaluation of project, appraisal of group work and special reports. etc. (All non-traditional forms of Departmental examinations are subject to approval of the University's senate, on recommendation of the College Board of Studies,). All courses offered by students shall be examined during the semester in which they are offered; and candidates will be credited for the courses they have passed.

### **B. Grading**

Courses shall be graded from a maximum of a 100 marks. Students who obtain less than 45 marks in a course, (continuous assessment scores inclusive) shall be deemed to have failed the course. Such students may be required to carry-over the course; as total results for the semester are forwarded to the College of Business and Management Studies from the Department for publishing, after approval of the Senate. Published results is to show student's matriculation number, the courses taken and the credit-units attempted, including the student's raw scores and the corresponding letter grades.

**Table B Student Performance Index**

Raw Scores (%)	Letter Grade	Grade Points	Interpretation
70-100	A	5	Excellent
60-69	B	4	Very Good
50-59	C	3	Good
45-49	D	2	Pass
00-44	F	0	Fail

**12.01 End Semester Examinations**

Students will sit for an end-semester departmental examination in all the courses they registered. The semester examination shall constitute between 60 to 70 percent of the total marks/grades obtainable for each course. Numerical-scores and Letter-grades will be assigned to courses that are passed. Both the GPA and the CGPA will be calculated on the basis of the total number of courses registered during the semester, whether passed or failed.

**12.02 Continuous Assessment (CA)**

There shall be continuous assessment for all courses offered by the Department. The continuous assessment would consist of class attendance, periodic test(s)/quiz(es), tutorials, mid-semester examination(s), written assignment(s), term paper(s), etc. The CA shall contribute between 30 to 40 percent of the total marks for each course.

**12.03 Moderation and Appointment of External Examiners**

All Departmental examinations from level-100 to level-400 are moderated by External Examiners, including examination questions, marking schemes, etc:

Also, the External Examiners vet course-outlines for all levels. And for the level-400, they will participate in computing students' overall results and the classification of final degrees.

**12.04 Internal Examiners**

The Department has a Board of Studies and Board of Examiners. The HOD Business Administration is the Chairman of both boards. The 2 Boards frequently deliberate on issues concerning studies and examinations, as well as make recommendations to the College Board of Studies and College Board of Examiners respectively.

**12.05 Appointment of Departmental Examination Officer**

The HOD Business Administration is also the Chief Examiner responsible for proper conduct of all examinations in the Department. As Chief Examiner, the HOD appoints an Examinations Officer (EO) from among the academic staff of the Department, no lower than the rank of a Lecturer II. as a substantive Examination Officer. The EO is responsible to the HOD in all matters relating to examinations.

The EQ is also in-charge of recording, compilation, and presentation of examination results to the Departmental Board of Examiners.

**13.00 EXAMINATION INSTRUCTIONS TO ALL STUDENTS**

1. Only students duly registered for courses in the Department will be eligible to sit for the end-semester examinations and obtain grades.
2. Students must write examinations in venues designated for them. Non-compliance with this instruction may lead to loss of scripts, disciplinary action, or both.
3. Students may not be allowed to sit for any examination, 30 minutes after the commencement of the exams.

4. For the purpose of identification in examination halls, each student must carry the University's identity card, receipt for school fees, and entry into examination forms duly signed by the appropriate University officer(s).
5. No student may leave the examination hall 1 hour after the commencement of examinations.
6. Students are to read all instructions on the front-cover of their examination question booklet and abide by them. Information required on the examination answer booklet must also be meticulously completed.
7. All answer-scripts must be handed-in, at the end of the examination. Students must also complete and sign the Attendance Sheet for all examinations they sit,
8. Students must strictly adhere to examination instructions, as misconducts in the course of examinations are punishable by the specified sanctions contained in the University's Students Code of Conduct gazette.
9. Students must present themselves for all Departmental examinations and continuous assessment tests, unless with permission of the lecturer in-charge and the Head of the Department.
10. Students that are unavoidably absent from Departmental examinations on medical grounds, must substantiate their claims with satisfactory/acceptable Medical Reports on their ailments.

#### **14.00 REGULATIONS GOVERNING THE AWARD OF DEGREES IN THE DEPARTMENT**

- 1) Method of Instruction in the Department is by courses- work; students are thus required to take approved combination of courses, as determined from time to time by the university's senate, on the recommendation of the Departmental and College Boards of Studies.
- 2) The approved period of study for the award of the B. Sc. Degree in Business Administration is not less than '8' semesters or '4' years for TiME students and 6' semesters or '3' years for Direct Entry students.
- 3) Students who fail to achieve a GPA of 1.00 after 2 consecutive years shall be required to withdraw from the Department. Such students may, however, transfer to other programmes, in other Departments within or outside the College of Business and Management Studies if found acceptable.

#### **15.00 OTHER REGULATIONS TO BE OBSERVED BY ALL STUDENTS**

The above and below regulations should be adhered to by all students for the smooth running of the Department, and to ensure an environment that is conducive for learning:

1. All students are required to conduct themselves in a quiet and orderly manner, within the classrooms and the University premises.
2. Students may not change their programmes without the written consent of the Head of Business Administration Department.
3. Students who willfully damage Departmental properties will be required to pay for repairs or replacements.
4. A student who does not perform his/her academic work satisfactorily may, on the recommendation of the Department and the College, to the Senate, be asked to withdraw from the University.
5. Students are prohibited from belonging to any secret organization or cult; to do so is punishable with instant dismissal and prosecution.

#### **16.00 CLASSIFICATION OF DEGREES**

Degrees in the Department are classified as indicated below:

Final CGPA	Class of Degree
------------	-----------------

4.50 – 5.00	First Class Honours
3.50 – 4.49	Second Class Honours, Upper Division
2.40 – 3.49	Second Class Honours, Lower Division
1.50 – 2.39	Third Class Honours

### **16.00 SUMMER SCHOOL**

The Summer School afforded students opportunity to remedy or re-sit courses that they may have missed or failed. However, due to the National Universities Commission (NUC) directives, all Summer School programmes have been indefinitely suspended.

### **17.00 DEPARTMENTAL BOARDS AND COMMITTEES**

For the smooth running and participation of all staff in the affairs of the Department, the following Boards and Committees are established:

#### **Appointments and Promotions Committee, (A&PC)**

Membership;

HOD - Chairman

All senior academic staff

#### **Committee on Curriculum and Accreditation**

Membership

HOD - Chairman

All senior academic staff

#### **Board of Studies Committee**

Membership:

HOD - Chairman

All academic staff.

#### **Board of Examiners Committee**

Membership:

HOD - Chairman

All academic staff

#### **Postgraduate Committee**

Membership:

HOD - Chairman

All Ph.D. holders.

#### **Disciplinary Committee**

Membership:

Dr. Elizabeth Akpeti Chairperson

Other elected members.

#### **Committee on Teaching and Exams Ethics**

Membership:

Dr. Elizabeth Akpeti Chairperson

Other elected members.

### **Committee on Research and Publications**

Membership:

Dr. D.G.E. Mbaegbu - Chairman

All staff of the Department.

### **Time-Table Committee**

Membership:

Mr. Macaulay Augustine - Chairman

2 Other elected members.

### **Library Committee**

Membership;

Mr. Macaulay Augustine - Chairman

2 Other elected members.

### **Welfare Committee**

Membership:

Dr. (Mrs.) Akpeti Elizabeth - Chairman

2 Other elected members.

### **Level-100 First Semester Courses**

<b>S/N</b>	<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>CREDIT UNITS</b>
1	BUS 111	Introduction to Business 1	3
2	ACC 111	Introduction Financial Accounting 1	4
3	MTH 111	Business Mathematics 1	3
4	BFN 111	Introduction to Finance	3
5	ECO 111	Principles of Economics 1	3
6	GST 111	Communication in English	2
7	GST 112	Logic, Philosophy and Human Existence	2
8	GST 113	Nigerian Peoples & Culture	2
	TOTAL		22

### **Level-100 Second Semester Courses**

<b>S/N</b>	<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>CREDIT UNITS</b>
1	BUS 121	Introduction to Business II	3
2	ACC 121	Introduction to Financial Accounting II	4
3	MTH 122	Business Mathematics II	3
4	ECO 121	Principles of Economics II	3
5	GST 121	Use of Library, Study Skills & ICT	2
6	GST 122	Communication in English II	2
7	GST 123	Communication in French	2
	TOTAL		19
	GRAND TOTAL		41

### **LEVEL-200**

**Level-200 First Semester Courses**

S/N	COURSE CODE	COURSE TITLE	CREDIT UNITS
1	BUS 211	Principles of Management I	3
2	BUS 212	Business Statistics I	3
3	BUS 213	Principles of Marketing I	3
4	ECO 211	Micro-Economics Theory	3
5	ACC 211	Financial Accounting I	3
6	ACC 213	Cost Accounting	3
7	BFN 213	Mathematics of Finance	3
8	GST 211	History & Philosophy of Science	2
	TOTAL		23

**Level-200 Second Semester Courses**

S/N	COURSE CODE	COURSE TITLE	CREDIT UNITS
1	BUS 221	Principles of Management II	3
2	BUS 223	Business Statistics II	3
3	BUS 225	Principles of Marketing I	3
4	ACC 221	Financial Accounting II	3
5	ECO 221	Micro-Economics Theory	3
6	SAA 222	Elements of Psychology	3
7	BUS 224	Business Communications	3
8	GST 221	Peace Studies & Conflicts Resolutions	2
9	EPS 221	Entrepreneurship Studies	2
	TOTAL		25
	GRAND TOTAL		48

**LEVEL-300****Level-300 First Semester Courses**

S/N	COURSE CODE	COURSE TITLE	CREDIT UNITS
1	BUS 311	Management of Human Resources	3
2	BUS 312	Production Management	3
3	BUS 314	Management Theory	3
4	MGT 312	Small/Medium Scale Business Mgt.	3
5	MKT 312	Sales Management	3
6	ACC 314	Management Accounting	3
7	BFN 313	Financial Management	3
8	LAW 313	Business Law	3
9	EPS 311	Entrepreneurship Skills	2
	TOTAL		26

**Level-300 Second Semester Courses**

S/N	COURSE CODE	COURSE TITLE	CREDIT UNITS
1	BUS 321	Organizational Behaviour	3
2	BUS 324	Business Research Methods	3
3	BUS 325	Marketing Management	3
4	LAW 323	Company Law	3
5	POL 322	Elements of Government	3
6	BUS 327	Quantitative Analysis	3
	TOTAL		18
	GRAND TOTAL		42

#### **LEVEL-400**

##### **Level-400 First Semester Courses**

S/N	COURSE CODE	COURSE TITLE	CREDIT UNITS
1	BUS 411	Strategic Mgt. & Business Policy	3
2	BUS 412	International Economics	3
3	BUS 413	Corporate Planning	3
4	BUS 414	Industrial Psychology	3
5	MKT 411	Marketing Research & Infor. Systems	3
6	MGT 412	Labour & Industrial Relations	3
	TOTAL		18

##### **Level-400 Second Semester Courses**

S/N	COURSE CODE	COURSE TITLE	CREDIT UNITS
1	BUS 421	Strategic Mgt. & Business Policy II	3
2	BUS 422	International Business	3
3	BUS 429	Project/Research	6
4	BUS 424	Management Information System	3
5	MKT 422	Management of Distribution Channels	3
6	MGT 421	Collective Bargaining	3
7	MGT 423	Materials Management	3
	TOTAL		24
	GRAND TOTAL		36

## **19.00 COURSE DESCRIPTION**

### **Level-100: FIRST SEMESTER**

#### **BUS 111: INTRODUCTION TO BUSINESS 1(3 Credit Units)**

The objective of the course is to introduce new students of Business Administration, Accounting, Finance, Economics and related disciplines to the basic elements of Business Management. The topics covered include: Survey of Business, Fundamentals of Modern Business, Nature and Functions of Business Enterprise as well as the role, social and economic principles of Business Enterprise.

#### **ACC 111: INTRODUCTION TO FINANCIAL ACCOUNTING I (4 Credit Units)**



This course introduces new Business and Management students to the historical background of accounting; the nature and scope of accounting; the role of Accountants; Accounting functions and relationships to the overall information system in the organization; definition of the accounting system: source documents and their uses; subsidiary books, types and preparations. i.e. sales day book, purchases day book, return inwards day book, returns outward day book; and the journal proper. Other topics covered include the accounting equation; double entry principles; books of accounts including cash book. Ledgers, petty cash book and imprest system; posting of entries from subsidiary books to the ledger; the trial balance, meaning and purpose of the trial balance, errors affecting the trial balance, errors not affecting the trial balance; correction of errors and the uses of suspense accounts; etc Also included are the final accounts of sole traders; adjustments for the provision of depreciation; provision for bad debts; accruals and pre-payments classification of expenditure between capital and revenue; bank reconciliation statement; and adjustment of cashbooks.

### **MTH 111: BUSINESS MATHEMATICS (3 Credit Units)**

The course covers mathematics areas related to Business and Management such as: Mathematics & Symbolic Logic; Inductive and Deductive Systems; Simple and Compound Statements Truth Tables; Set Theory; Real and Complex Number Systems. Also, Binomial Theory & Equations; Matrix Algebra & Matrices: Numeric Analysis; Differences Formula (Equal and Unequal Intervals); Interpolation and Summation Techniques; Coordinate Geometry; Cartesian and Polar Coordinates; Area of Triangles & Quadrilaterals; The Circles, Parabola, Ellipse & Hyperbola; and Arithmetic and Geometric Progression.

### **BFN 111: INTRODUCTIONS TO FINANCE (3 Credit Units)**

This course is a general introduction to the study of finance including: Nature, definition and types of risks; study of the firm in relation to its financial objectives; approaches to financial decisions-making; principles of financial planning and control; types and functions of financial intermediation money versus capital markets; types and operations of financial markets; features of financial instruments; operations of the Stock Exchange; sources and choices of finding; and capital and re-current budgeting.

### **ECO 111: PRINCIPLES OF ECONOMICS 1(3 Credit Units)**

This course is an introduction to Micro-economic Theory. Topics covered include: the definition of Economic Science: the basic concept of Scarcity & Demand; the meaning of Opportunity Cost and Utility Preference Scale: the theory of Price Determination: the theory of Consumer Behaviour: the theory of a firms Costs, Pricing and Output under Perfect Competition, Monopoly, Monopolistic Competition, Oligopoly, etc.

### **CSC 113: COMPUTER APPLICATIONS I (3 Credit Units)**

This is a general introduction to Computer Science course: it covers Computer Hardware history, evolution, classification, types and configurations. etc Also included are topics on Computer Software history, generations, types, programming languages features, operating systems, etc. Other topics covered include the use of computers; categories of computer applications; introduction to word-processing; data communication (basic concepts and methods of computer networks, including internet and e-mailing): data processing (properties, types of processing, including batching etc); number representation (binary mathematics, number conversions etc); computer viruses, their cure and their protection, etc.

### **GST 111: COMMUNICATION IN ENGLISH (2 Credit Units)**

The course teaches effective communication and writing skills in English; Language Skills; Writing Essay Answers; English Comprehension; Sentence Construction; Outlines and Paragraphs; Collection, Organizing & Logical Presentation of Facts; Punctuations; etc. Also, the course cover areas on general

consolidation of English Fundamentals including language skills and choosing topics for writing through planning, outlining, assembling and organizing facts, to ensure coherence, originality and accuracy.

**GST 112: LOGIC, PHILOSOPHY & HUMAN EXISTENCE (2 Credit Units)**

This is a brief survey of the main branches of Philosophy; Symbolic Logic; Special Symbols in Symbolic Logic-conjunction; Negation, Affirmation; Disjunction: Equivalence and Conditional Statements; Method of Deduction; Rules of Inference & Bio-conditional Qualification Theory; also. Pre-Socratic & Post-Socratic Philosophy; Existentialism, etc.

**GST 113: NIGERIAN PEOPLES, & CULTURE (2 Credit Units)**

This is a study of Nigerian history. culture and arts in pre-colonial times; and the Nigerians perception of his world and culture: also a study of areas of Nigeria and their characteristics; evolution of Nigeria as a political entity; indigene/settler phenomenon; concepts of trade, economic self-reliance and social justice; individual and national development; norms and social values; negative attitudes and conducts (cultism and related vices); and national re-orientation. Other topics include environmental issues; functional education; principles of good. bad, right, and wrong; moral implications of our choices; morality versus expediency: and moral obligations of citizens.

**SECOND SEMESTER**

**BUS 121: INTRODUCTION TO BUSINESS 11(3 Credit Units)**

This is the second part of a 2 semester course on Introduction to Business. Topics covered include integrated outline to the functions of business, including: overview of marketing concepts; production management; personnel management; accounting principles; financial management; and survey of banking, insurance and related areas in business.

**Prerequisite, BUS 111**

**ACC 121: INTRODUCTION TO FINANCIAL ACCOUNTING II (4 Credit Units)**

This is a continuation of the 2 semester course on introductory Financial Accounting. Topics covered include: Review of ACC 111; Final Accounts of a Sole Proprietor; Presentations of Adjustments in T-Account Forms; Accounting Concepts and Conventions: Meaning of Depreciation. Also, Depreciation of Fixed Assets; Reasons for Making Provisions for Depreciation; Methods of Providing for Depreciation: Accounting Theory SAS 9: Multiple Methods of Calculating Depreciation Straight Line, Reducing Balance, Sum-of-the-year's Digit; Production Hour: Production Unit; Revaluation Method; Sinking Fund; Stocks Methods of Valuation; Accounting Theory SAS 4: Manufacturing Accounts: Incomplete Records and Single Entries.

**MTH 122: BUSINESS MATHEMATICS 11 (3 Credit Units)**

This course consists of the topics such as: Algebraic and Transcendental Functions; Expansion Of Algebraic Functions with Application to Business; Differential Calculus; Limits and Continuity; Derivation from First Principles; Total Differentiation; Application to Marginal Analysis; Cost Functions; Indifference Curves; Maximization and Minimization; Partial Differentiation with Application to Marginal Analysis and Comparative Statistics; Integral Calculus. Integration with Application to Marginal Total Equations; Permutations and Combinatorial; Simple Sequences and Series: Finite and Infinite series; and Convergent & Divergent Series.

**ECO 121: PRINCIPLES OF ECONOMICS 11(3 Credit Units)**

This course complements ECO 111: Micro-economics I. as the Macro-economic component for the I-year preparatory studies in economics, business and the management courses. Topics covered include: Economic Theory; the Methodology of Economics Science; the Fundamental Economizing Problem; Principles of Resource Allocation; National Income Accounting; Elementary Models of Income and

Employment; Principles of Money Banking & Financial Markets: Public Finance & Government Budget; Introduction to international trade; Balance of Payments & Economic Development.

### **CSC 123: COMPUTER APPLICATIONS II (3 Credit Units)**

The topics covered in this course include: Aims, Objectives & Structure of Computer Packages; Differences between New & Conventional Programming Languages; Capabilities and Limitation of Packages; Types/Class of Packages Word Processor, Spreadsheet, Graphic Animation, 3D, Utilities and Database; Studies and Hands-on Use of Windows (Word, Excel, PowerPoint and Access). Practical Sessions: Students are expected to study and practice on at least 5 packages from the above to gain proficiency and mastery.

### **GST 121: USE OF LIBRARY, STUDY SKILLS & ICT (2 Credit Units)**

The course traces a brief history of libraries including Library and the Educational System; the University Library System: Other forms of Libraries; Types of Library Materials; Understanding the library catalogue, (Card, OPAC, etc) and classifications; Using library resources, (including e-learning, e-materials, etc) and Database Resources. Other topics covered include Study Skills: Bibliographical citation and Referencing; Copyrights Laws and infringement. Also, the development of modern ICT; hardware and software technologies; word-processing skills, (i.e. typing), etc.

### **GST 122: COMMUNICATION IN ENGLISH 11(2 Credit Units)**

This course is a continuation of GST 111: Communication in English T It covers areas such as Logical Presentation of Papers; Phonetics: Instruction on lexis; Art of Public Speaking; Oral Communication: Figures of Speech; Précis; Report Writing; etc.

### **GST 123: COMMUNICATION IN FRENCH (2 Credit Units)**

This course introduces students to French language as part of the ECOWAS region's requirement for economic integration, using dual official languages. Topics covered in the course include French Alphabets and Numbers for basic communication: Conjunction and simple sentences construction in French; and Reading for Comprehension in basic French language.

## **200 LEVEL**

### **FIRST SEMESTER**

#### **BUS 211: PRINCIPLES OF MANAGEMENT (3 Credit Units)**

The course is a general introduction to the concept of principles, processes and significance of the managerial team in the context of changing socio-economic environment from the perspectives of developing countries; Other issues discussed in the course include, the global role of strategic planning and management; also the functions of planning, organizing, staffing, communication, coordination, motivation, direction and control in the modern business organizations.

#### **BUS 212 BUSINESS STATISTICS 1 (3 Credit Units)**

This is the first in a two-semester course on elementary statistics, applicable to the problems of business and management. The first semester focus is on descriptive statistics, topics covered include: the nature of statistics; basic concepts in statistics; statistical inquiries; forms and designs in statistical methods; statistics in scientific enquiries; data, population and samples; discrete and continuous variables; functional relationships; secondary & primary data; sources of data; methods of collecting primary data; etc. Also, the presentation of statistical data; frequency distributions; measures of central

tendencies; measures of dispersion in single and grouped data; skewness and Kurtosis; laws of probability; elementary probability distributions normal, binomial, Poisson and hyper-geometric distributions, etc.

### **BUS 21.3: PRINCIPLES OF MARKETING 1 (3 Credit Units)**

The course introduces beginning students to the basic principles of marketing. It is designed to expose them to the rigours of marketing as an academic discipline and a business practice. As well, it treats the marketing concept as ‘activities concerned with the total delivery of customer satisfaction making marketing relevant to both business and non-business organizations. Other issues discussed in the course include, the marketing-mix; marketing as part of corporate survival and growth strategy; product planning and development; pricing, promotion and distribution of products and services; etc.

### **ECO 211: MICRO-ECONOMIC THEORY (3 Credit Units)**

The course builds on students knowledge in ECO 111: Principles of Economics. Topics covered include: Micro-economic Models; Theories of Consumer Behaviour; Theories of Price; Utility & Preference Curves; Elasticity of Demand; Profit Maximization Rules; Law of Diminishing Return; Indifference Curve; Demand & Supply Curves; Pricing & Market Structures; Perfect Competition Monopoly, Monopolistic Competition and Oligopoly; Distribution under Perfect Competition; Employment under Perfect & Imperfect Competitions; Marginal Cost & Marginal Revenue Rules.

Pre-requisite, ECO 11

### **ACC 211: FINANCIAL ACCOUNTING I (3CreditUnits)**

This course expounds on the 2 introductory courses in accounting. ACC 111 & ACC 121. Topics covered include Further Treatment of Incomplete Records; Preparation and Presentation of Final Accounts in non-Commercial Organizations such a Associations, Trade Unions. Mosques, Churches, etc.: Reserves and Provisions; Treatment of Fixed & Current Assets Based on SAS 3; Introduction to Partnership Accounts including Final Accounts; Change in Partnership; Death/Retirement of Partners including treatment of goodwill; Partnership Case Laws; Dissolution of Partnership; Piecemeal Realization in Partnership; and Joint Venture Accounts.

**Pre-requisite** ACC 111 & ACC 121.

### **ACC 213: COST ACCOUNTING (3 Credit Units)**

The course introduces students to the concepts and practices of Cost Accounting. The topics covered include History, Principles and Objectives of Cost Accounting; Cost Accounting Rules for materials, labour and overheads; Integrated and Uniform Cost Accounting; Contract Costing; Batch Costing: Process Costing treatment of joint products, by-products and spoilages; Evaluation of Process Stockusing FIFO, LIFO and Average Prices; Funds Flow Statement; Break-even and Cost Volume Profit Analysis.

**Pre-requisite** ACC 111, ACC 121 & ACC 211

### **BFN 213: MATHEMATICS OF FINANCE (3 Credit Units)**

The course covers the mathematics of solving financial and accounting problems such as, computations of interest rates; interest- periods; calculation of compound interests; discounting notes and drafts; customer credit interest; charges on unpaid balances; past due accounts; trade discounts for quantity or cash; trade markup and markdowns; cost price and retail price; payroll and income; personal taxes: national provident fund; share/stock dividends: valuation of goodwill; shares/stock and bonds; etc

**GST 211: HISTORY AND THE PHILOSOPHY OF SCIENCE (2 Credit Units)**

The course investigates the origin of life from evolutionary concept, vis-à-vis that of creation. Other topics covered include man and his cosmic environment: definition of science and its branches; methodologies and developments in science from ancient times to present; inventors and inventions; science and technology in the society and in services to man; energy forms sources and implications; renewable and non-renewable resources: environmental effects of chemicals, plastics, textiles, wastes and other hazardous materials; chemical and radio-chemical hazards; introduction to the various areas of science and technology; and elements of environmental studies.

**SECOND SEMESTER****BUS 221: PRINCIPLES OF MANAGEMENT 11 (3 Credit Units)**

This course extends and deepens the knowledge gained in BUS 211: Principles of Management I. The emphasis in the course is on concepts and theories of management, including challenges in applying business management theories in the Nigerian environment. Topics discussed in the course include Management Theories such as Scientific Management; Human Relations Principles; Systems and Contingency Theories, etc. Other principles discussed include Douglas McGregor's Theory X and Theory Y; the Managerial Grid; Participatory Models; Management by Objectives; Abraham Maslow's Hierarchy of Needs; Quality of Work Life; Quantitative Models of Management Science; etc.

**Pre-requisite** BUS 211

**BUS 223: BUSINESS STATISTICS 11(3 Credit Units)**

This course continues from BUS 212: Business Statistics I. The topics covered include: Inferential Statistic drawing conclusions from sample data, and making decisions or predictions based on population parameters. Other topics covered include Sampling Theory; Statistical Estimation: Statistical Decision Theory; Hypothesis Testing; Chi-square Test; Goodness-of-fit Test; Contingency Table Analysis; Uses and Limitations of Chi-square Tests; Test of Significance; t- Distribution; Correlation Analysis; Simple and Multiple Regression Analysis; Analysis of Variance; Covariance: Index Numbers; and Time Series Analysis. Pre-requisite BUS 212.

**BUS225: PRINCIPLES OF MARKETING 11(3 Credit Units)**

The course builds on the knowledge acquired from BUS 213: Principles of Marketing I. It treats behavioural issues in marketing. Topics covered include Analysis of Micro and Macro Marketing Environment: Key Consumer Analysis; Theories of Consumer Behaviour: Industrial Markets; Marketing Research and Information Systems; Market Surveys; Demand Measurement; Measurement of Sales: Forecasting Demand; Global Marketing; Marketing in Services Industries. Marketing in Not-for-profit Organizations, Societal Criticisms of Marketing; and Careers in Marketing Management.

**Prerequisite** BUS 213

**ACC 221: FINANCIAL ACCOUNTING 11(3 Credit Units)**

The course consolidates OIl gains from prior accounting courses, including ACC 211: Financial Account I. Other topics covered include Bills of Exchange; Consignment Accounts, Containers Account. Goods on Sale; Goods on Returns, Royalties Account, Voyage Account, Insurance Claims Accounts, Sinking Fund Accounts; Investment Accounts, Contract Accounts including treatment of SAS 5; etc.

**Prerequisite** ACC 211.

**ECO 221: MACRO ECONOMIC THEORY (3 Credit Units)**

The course builds on the previous knowledge of ECO 121. It is primarily concerned with the study of the relationships between broader socio-economic challenges and the larger political and national issues. Topics discussed in the course include The Circular Flow Model; Pure Capitalism; Mixed Economy; The Welfare State; Socialism & Communism; Classical Vs. Keynesian Economics;

National Income Accounting; The Consumption Function Approach; Savings and Investment Equations; Relationship between Expenditure and Employment; Money Supply; Inflation & Price Levels; and Balance of Payment, Statistics.

### **SAA 222: ELEMENTS OF PSYCHOLOGY (3 Credit Units)**

This beginner's course introduces students to the discipline of psychology. Its primary aim is to acquaint students with the knowledge of interplay between the individual and his environment. Topics covered include Human Behaviour; The Biological Basis of Behaviour; The Socialization Process; Personality Theories; Perception; Peer Group Pressure; Learning Theories; Human Memory; Motivational Theories; Nature Vs. Nurture Argument; Attitude & Beliefs; Abnormal Behaviour; Social Influence; and Collective Behaviour.

### **BUS 224: BUSINESS COMMUNICATION (3 Credit Units)**

This course imparts knowledge to students on the fundamentals of business communications including Principles of Communications; Functions of Communications; Communication Theories i.e. Linear Model, Interactional Model, Transactional Models etc. Other topics include--Corporate and Public Communications; Written Communications i.e. Letters, Memos, Circulars, etc. Also, Modern & Electronic Communications i.e. e-mails, Texts, intranet, teleconference, etc.

### **GST 221 PEACE STUDIES & CONFLICT RESOLUTIONS (2 Credit Units)**

The course enjoins Nigerian students to be ambassadors of peace and citizens of conflict resolutions. Also, the use of peace as a vehicle for unity and development. Other topics discussed include Conflict Issues; Types of Conflicts, e.g ethnic, religious, political and economic conflicts. Others are Root Causes of Conflicts and Violence in Africa; Indigene/Settler Phenomenon; Peace Building; Management of Conflict & Security; Elements of Peace Studies & Conflict Resolution; Developing a Culture of Peace Mediation; Peace Keeping Alternative; Dispute Resolution, etc.

### **EPS 221 ENTREPRENEURSHIP STUDIES (2 Credit Units)**

The NUC benchmark on Entrepreneurship Studies approves the adoption of the contents below for EPS 221 as follows the concept of organizations and theories of Entrepreneurship; The Entrepreneurship culture; Biographical studies of Entrepreneurs; Barriers to Entrepreneurial practice; The business external environment political, legal, social, cultural, financial, natural and technological; Identifying Business opportunities and threats; Strategies for exploiting opportunities in the environment; Approaches to addressing environmental barriers; Intellectual property and its dimensions; Copyright laws in Nigeria; Strategies for protection of intellectual property, (original ideas, concepts, products etc.); The interface between technology development, and Entrepreneurship; Technological Development and Entrepreneurial opportunities; Technological environment and business: New technology and Entrepreneurship opportunities; The concept, nature and types of innovation; Theories of innovation; Financing innovation and new ventures; Change management; Technical change and management of Innovation. Others are, the Concept of family business; The cultural contexts of family business; Roles and relationship in family business; Ownership transfer and succession in family business; The concept of women Entrepreneurship; Role orientation women Entrepreneurial aspirations; Contributions of women to national socio-economic and human development; Barriers to women Entrepreneurial practice; The concept of social Entrepreneurship; Social Entrepreneurship and value creation; The roles of non-governmental organizations in social Entrepreneurship; Social Entrepreneurship and funding opportunities; Social Entrepreneurship enhancement factors; Sources of business opportunities in Nigeria; The difference between ideas and opportunities; Scanning business opportunities in Nigeria; Environment and new venture Idea generation.

## **Level 300**

## **FIRST SEMESTER**

### **BUS 311: MANAGEMENT OF HUMAN RESOURCES (3 Credit Units)**

The course is an introduction to the Theory and Practice of Personnel Management also, industrial relations with particular reference to the evolution of industrial relations in Nigeria. The course contents include the Concept of Human Resources Management; the Role of Personnel Management; the Evolution of Personnel Management; Functions of Personnel Management; Manpower Planning; Job Analysis & Job Description; Manpower Forecasting; Manpower Inventory; Recruitment and Selection; Employee Performance Appraisal; Compensation Plans & Incentives; Career Planning; Management Development and Training; Employee Records Maintenance; etc.

### **BUS 312: PRODUCTION MANAGEMENT (3 Credit Units)**

The topics covered in the course include Elements of Production; Production and Process Design; Management of Facility; Location & Layout; Modern Tools & Machinery for Production; Standard Definitions: Line Balancing; Automation; Production Planning: Scheduling & Control; Technical Feasibility Assessments. Other topics covered are Work Study; Maintenance of Tools & Equipment; Cost/Benefit Analysis; Quality Control; Inventory Control; Project Planning; Forecasting; also Aggregate Planning Control and Material Resource Planning, etc.

### **BUS 314: MANAGEMENT THEORY (3 Credit Units)**

The course apprises the theories of management vis-à-vis the methodologies of the physical and social sciences. It also explores important features of management principles including links between management theories and management practice. As well, the history of management science is surveyed including the scientific management movement; contemporary management theories; the practice of management; conduct as a test of good management theory; challenges in developing Nigerian model of management; counter-productive management practices in developing countries; and global best practices in management.

### **MGT 312: SMALL AND MEDIUM ENTERPRISES MANAGEMENT (3 Credit Units)**

The focus of this course is on enabling talented students to establish sustainable micro, small or medium sized enterprise(s) of their own more especially in the context of Nigeria's present social and economic predicaments. Topics covered in the course include What Self-employment Means; What Small and Medium Sized Enterprises (SME) Means: The Concept of Job Creation: Owning or Managing a Business: Forms of Business Ownership; Accounting for Small Business Firms., Enhancing Small Businesses with ICT; Small Business Partnerships; Registering Business; Opportunities & Challenges in Small Enterprise Management; Financing SMEs; Role of Government in the Growth of SMEs; the Micro-Credit Scheme: Preparing a Feasibility Study; Preparing a Business Plan; Venture Capital & Venture Management; business Expansion and Diversification; Exploring Export Opportunities; etc.

### **MKT 312: SALES MANAGEMENT (3 Credit Units)**

The course examines an organizations' Sales Force management in relation to its overall marketing-mix. It also examines topics on the Selling Process. Qualities of Salesmanship: Types of Sales; the Selling Job; the Selling Environment; Managing the Sales Territory; Sales Organization; Attributes, Duties and Responsibilities of the Sales Manager; Compensation Plan for the Sales Force; Trends & Developments in Sales Management; Sales Analysis; Market Share: Sales Quotas, etc.

Prerequisites BUS 213, BUS 223

### **ACC 314: MANAGEMENT ACCOUNTING 1(3 Credit Units)**

This course consolidates student's knowledge in the area of Accounting Methods & Theories. Topics covered include The Nature and Function of Management Accounting; The Dual Purpose of Planning & Control; Decision Making for Costs; Marginal Costing & Contribution Analysis; Break-even

Analysis; Charges, Costs & Prices of Break-even Point; Margin of Safety; Sales-mix & CPV Charts; The Concept of Opportunity Cost; The Learning Curve; Budgeting & Budgetary Control; Application of Qualitative Techniques; Statistical Techniques--i.e. The Least Square Method; Standard Deviation; Correlation; Regression Analysis: Standard Costing; Variances including profit, contribution mix and yield; Interpretation of Variances for Management Decision: Planning and Operational Variances, etc.

**Pre-requisite:** ACC III, I21,211,212&221.

### **BFN 313: FINANCIAL MANAGEMENT I (3 Credit Units)**

This blends earlier courses on financial account to the framework of financial management. Topics covered include Meaning and Goals of Finance; Capital Budgeting Under Certainty Uncertainty; Cash Flow Forecasting; Techniques for Project Evaluation; Cost of Capital; Financial Leverage; Capital Structure Theories; Dividend Policy & Internal Financing; Portfolio Theory; Management & Efficient Market Hypothesis; Securities Valuation; Risk Analysis & Measurement; Risk & Diversification; Capital Asset Price Model; Foreign Currency Transactions; Analysis, Interpretation, Financial Statements & Reports; Financial & Business Failures, etc.

### **LAW 313: BUSINESS LAW (3 Credit Units)**

The course introduces business students to the Nigerian legal system. Other topics covered are Sources of Nigerian Law; Division of Powers between the Federal, State & Local Governments; Statutory Laws (legislation and interpretations, history and development of common law, equity law, etc); Hierarchy of the Nigerian Court Systems; Distribution between Civil & Criminal Liabilities; The Law of Torts; Concept of the Legal Person; The Corporate Personality; The Doctrine of Ultra vires in Contract; Law of Commercial Agency; Sales of Goods, Carriage of Goods, Negotiable Instruments, Hire Purchase; Installment Purchase; Suretyship & Guarantees; Pledges, Lease & Exchange Control.

### **EPS 311 ENTREPRENEURSHIP SKILLS (2 Credit Units)**

The course is a hands-on module in Entrepreneurship Studies required of all students. The programme is a university-wide scheme, adapted to the needs of each College. Students in the Department of Business Administration have a broad menu of micro-businesses to choose from. The choices include Owning or managing a detergent/toothbrush/or toothpaste plant; Owning or managing a water treatment/food packaging/or farm land: Owning or managing a vegetable-oil/ or animal-husbandry farm; Owning or managing a fashion-design or computer-repair shop; Owning or managing a computer-software or wood-work factory: Owning or managing a dyeing/tailoring/furniture or bakery plant: and Owning or managing a confectionary firm, etc. The programme is facilitated by knowledgeable and experienced personnel in the industry. Students will also visit, for their practical trainings, firms, plants and workshops in their respective disciplines. The facilitators will as well brief visitation teams, using classroom demonstrations and exhibitions featuring DVDs. CDs. etc. Facilitators will also be drawn from academic and non-academic staff in the university. Expert hands from the local chamber of commerce, including resource persons from and outside the school if required, in such fields as welding, construction, farming, fishery, animal husbandry, etc.

## **LEVEL 300**

### **SECOND SEMESTER**

### **BUS 321 ORGANIZATIONAL BEHAVIOUR (3 Credit Units)**

The Organizational Behaviour course is an amalgam of principles and concepts derived from the social and management sciences. It discusses important topics on Individual and Group behaviours within the organizational setting. Other topics surveyed in the course include Human Behaviour in Organization; Superior & Subordinate Relationship; Group Behaviour; Group Pressure; Group Dynamics; Productivity & Incentive; Productivity & Work Environment; Productivity & Performance; Informal Structures; Formal & Informal Interaction; Norms in the Work Place: Power, Conflict, Cooperation & Competition; and Leadership Styles.



Also discussed are Theories of Motivation; Reward & Punishment Models; Tasks Distribution; Employee Satisfaction; Absenteeism & Employee Turnover; Job performance; Job Re-Design; Change Management; Regulations, Policies & Procedures; Comparative Management; The Nigerian Factor Vs. Effective Management; Behaviour Modification Theories; and Performance & Appraisal Systems.

### **BUS 324: BUSINESS RESEARCH METHODS (3 Credit Units)**

The course examines ideas and principles such as the Meaning of Research; Methodologies of Research; Research as a Scientific Endeavor; Concepts of Scientific Inquiry; Importance of Research in Expanding Knowledge; Business Research Methods; Types of Research; etc. Other areas are Choosing - a Research Topic; Formulating the Research: the Research Proposal; the Dependent & independent Variable; Measurement & Statistics; Hypothesis Testing; Models & Propositions; the Problem Statement; the Research Question(s); Literature Review; Model Building; Conceptual Framework; Measurement & Scaling; Reliability & Validity: Defining the Research Population; Sampling Technique(s); Data Collection; Types of Data; Primary Data; Questionnaire Design & Administration; Secondary Data; Pre-gathered Data editing; Research Design; Coding Data; Presentation of Tables, Charts & Graph; Data Analysis & Interpretation; Writing the Research Report; Problems of Conducting Business Research in Nigeria.

### **BUS 325: MARKETING MANAGEMENT (3 Credit Units)**

This course examines marketing tasks as performed by Corporate Executives responsible for the Marketing function. The focus is on key tasks in marketing of firms products or services. It also emphasizes the strategic promotion and growth of the firm's customers. Related topics discussed in the course also include Creating Customer Loyalty; Creating Value-Chain; Creating Customer Advocacy; Delivering Superior Services and Relationship Marketing.

### **LAW 323: COMPANY LAW (3 Credit Units)**

The course examines companies under the concepts of legal personality. Also the following areas are looked at Companies Acts of 1968; Companies and Allied Matters Decree No. 1 of 1990, as Amended; Corporate Responsibilities; Procedures and Documentation; Transfer of Shares; Legal Treatment of Stocks & Debentures; Board Membership; Meetings and Board Resolutions; Duties of Directors, Principal Officers, Company Secretaries and Auditors: Prospectus and Statutory Books; Profits for Distribution: Holding and Subsidiary Companies; Powers and Duties of Liquidators: Secretarial Practices: Disclosure Laws in Corporate Accounts; Reconstructions. Amalgamations and Takeovers.

### **POL 322: ELEMENTS OF GOVERNMENT (3 Credit Units)**

The course looks at the Nature of Politics and Social Organizations; Also the Concept of the State; Law Issues, Constitution and Constitutionalism; Political Ideologies: Classical Heritage Plato. Aristotle: Thomas Hobbes; J. S. Mill; Pax Romanica; Stalinism; The Social Contract Theory; Towards the Mass Man; the Organs of Government (National Governmental Institutions): Public Administration. Political Parties and Pressure Groups, Public Opinion and Propaganda; Elections. International Order.

### **BUS 327: QUANTITATIVE ANALYSIS FOR BUSINESS DECISIONS (3 Credit Units)**

The course introduces students to the tools of management science including methodology and application in analyzing varieties of business problems. The course content focuses on mathematical programming such as linear programming and its applications to problems in Business Management, such as product mix problems, transportation problems, trans-shipment problems, and assignment problems: network models, including PERT-CPM techniques and their applications in project management; dynamic programming; game theory for two-persons, zero-sum games and their applications in management decisions: decision theory; queuing theory; inventory models; markov

theory: decision processes and their applications; decision support systems; applications of computer software and packages to solve business problems, including use of the Internet in QA problem-solving; etc.

## **LEVEL400**

### **FIRST SEMESTER**

#### **BUS 411: STRATEGIC MANAGEMENT & BUSINESS POLICY 1(3 Credit Units)**

This is the first phase of a 2-semester course on Strategic Management & Business Policy. It is designed for final year students in business, accounting and finance. It also consolidates what is learnt in the various courses taught at the undergraduate level. Thus the course uses the knowledge acquired by students during their training, and the skills they have gathered in solving case-studies and field problems, to address simulated organizational problems. As well, the course develops students capacities to foresee processes, identify, analyze and project entrepreneurial problems before they arise. In its focus, the first segment of the course focuses on strategic management including the sequence of decisions that build stronger and longer-term competitive positions, through formulating, implementing and evaluating strategic plans and policies.

#### **BUS 412: INTERNATIONAL ECONOMICS (3 Credit Units)**

The course introduces the theory of International Economics and International Finance. It incorporates the treatment of various theories of International Trade; Classical Theories of International Trade, (David Ricardo, David Hume); The Theory - of Comparative Advantage; Heickscher-Ohlin Theory; Leontief Model; International Currency Exchange The Gold Standard, Fluctuating Rate. SDR, International Trading Blocks: Tariffs & Local Trade; Trade Protectionism; Economic Integration; Balance of Payment. Capital Flows; Contemporary International Relations; International Financial Institutions the World Bank, International Monetary Fund, etc.

#### **BUS 413: CORPORATE PLANNING (3 Credit Units)**

The courses studies how top management conceives, develops and implement long range corporate plans, Corporate Planning is the game plan for focusing on major decisions the firm must make to survive profitably and achieve its desired goals Also the course emphasizes strategy formulation, strategy implementation and strategy evaluation that summarize the critical strategic management activities, enabling the company to achieve its desired objectives.

#### **BUS 414 INDUSTRIAL PSYCHOLOGY (3 Credit Units)**

The focus of this course is on the applications of theories in psychology to industry and interpersonal relations in the workplace. The course contents include: Introduction to social psychology; Introduction to Industrial psychology; Relationship between social. and industrial psychology; the Chicago Hawthorne study; humanity & personality: conformity and individual differences; perception & perceptual error; productivity and motivational models; group and team work; soft & persons skills; group decision making; group integration and effectiveness; personality job-fit theories; psychology and the socio-technical system, psychological tests and measurement; applications of psychological tests and measurement in job analysis; personnel selection; and training and. development.

#### **MGT 412: LABOUR AND INDUSTRIAL RELATIONS (3 Credit Units)**

The aim of the course is to familiarize students with the Nigerian labour laws; labour movements; history and development of employers associations and trade unions in Nigeria; structure and management of employees associations and unions; operational concept in industrial and human resources management; impact of government on related managerial decisions: comparative industrial and labour markets; etc.

**MKT 411: MARKETING RESEARCH AND INFORMATION SYSTEMS (3 Credit Units)**

The course is designed to train students in applying principles and procedures of scientific research to the understanding and analysis of marketing issues. Topics treated in the course include determining information needed in marketing research; determining the value of marketing information vis-à-vis its cost; the Bayesian analysis approach designing a market research project; basic experimental designs in marketing; defining the research problem; determining the research design; sampling procedures; questionnaire design and administration; field data collection; the research report; types of research product research, market research, communication research, attitude research, etc; test marketing; measuring advertising effectiveness; validity and reliability of research, etc.

**SECOND SEMESTER****BUS 421: STRATEGIC MANAGEMENT AND BUSINESS POLICY II (3 Credit Units)**

This is the second phase of the 2-semester course on Strategic Management and Business Policy. It focuses on developing an organization's business policy as the top management's prerogative. The concepts of policy and decision making are examined from the top management's perspective. While the top management's standards are treated as corporate plans, strategies, and policies that are cascaded to lower levels of the organization. The concluding part viewed the various problems associated with conflicts and resources control, amongst the top management, as inevitable corporate exercise. Finally, conflicting interests amongst managements of personnel, marketing and production are examined.

**Pre-requisite** BUS 411

**BUS 422: INTERNATIONAL BUSINESS (3 Credit Units)**

The course surveys concepts in International Business such as classical theory of trade; mercantilism and nationalism; theory of comparative advantage; free trade; theory of absolute advantage; modern trade theory; factor proportions and factor intensity; terms of trade; measures and effects of tariffs; international finance; balance of payment; exchange rate regimes--gold, fixed, floating; foreign exchange market: growth of multinationals; social, political, economic, financial and legal issues concerning multinationals; calculation of country risk factors; environmental forces affecting multinationals; international organizations influencing international trade and international business WTO. UNCTAD, IMF/WORLD BANK, ECOWAS, and so on.

**BUS 429: RESEARCH PROJECT (6 Credit Units)**

This is a two-semester course that students take in partial fulfillment for the award of B. Sc. degree. The course provides students with empirical knowledge, practical experience and hands-on training in designing and executing original study, under the care of a supervisor. The topic for the research must come from students' discipline. Also, students are to submit 3 tentative research topics to their supervisor, from which the supervisor approves in as the Research Topic. The student shall proceed with writing the project under close scrutiny, based on the knowledge acquired over the years especially course BUS 324. Finally, the students will submit hardcover-bound copies of the project to their supervisor, for presentation to the Department, as well as defend the project before a panel of internal examiners, or -both internal and external examiners, to earn a grade.

**BUS 424: MANAGEMENT INFORMATION SYSTEM (3 Credit Units)**

The course acquaints students with the knowledge of operating an effective information and communication system. Other highlights covered in the course include meaning, objective and requirement of MIS in organizations; information needs of management and design of MIS; management information needs; information output as a basis for criteria and systems development; computer environment and use of computer based techniques: electronic data processing (EDP) methods: batch processing; generating reports: error in reports; exceptions report: report format; form design: flow charting; networking; design techniques and documentation: user environment systems

development and life cycle; computer service bureau and cyber services; office automation; e-mail, internet and intranet, etc.

**MKT 422: MANAGEMENT OF DISTRIBUTION CHANNELS (3 Credit Units)**

The course enables students' appreciate the use and operation of the marketing channel, as an integral part of the marketing system. Marketing or distribution channels are display, sell and delivery points of the organization. The channels are intermediaries between the firm and its consumers. Also, the course highlights the functions of distribution channels within the wider marketing system; the relationships among participants in the channels; types of distribution channels; membership of the distribution channel; structures of distribution channels; designs of distribution channels; physical distribution and logistics management; etc.

**MGT 421: COLLECTIVE BARGAINING (3 Credit Units)**

The course examines the conduct and practice of collective bargaining in light of peace oriented union-management relations, It also focuses on the analysis and description of legal, civil and harmonious working relationship between labour, management and policy makers, nationwide.

**MGT 423: MATERIALS MANAGEMENT (3 Credit Units)**

The course introduces students to the process and procedure of purchasing manufacturing materials by organization. The topics to be covered include organization of the purchasing department; purchased materials management; 'purchase procedures and records; purchase price; materials control; ABC analysis; Analysis of stock levels; re-order quantity; store organization; centralized stores, imprest stores; and decentralized stores; stores location and layout; classification and coding of materials; etc.

## **ABDULSALAM ABUBAKAR COLLEGE OF ENGINEERING**

### **FOREWORD BY THE DEAN**

This new prospectus for undergraduate programmes sets out in detail information on the structure of the College of Engineering and includes extracts from the University Regulations governing First Degree programmes.

The prospectus also contains information on the history, aims and objectives, course description in respect of the College and the Departments of Civil, Chemical, Petroleum, Electrical/Electronics, Computer and Mechanical Engineering and other relevant matters.

From 2002/2003 Session, the College had been offering degree programmes in four major disciplines, namely:

**Chemical and Petroleum Engineering**  
**Civil Engineering**  
**Electrical/Electronics and Computer Engineering**  
**Mechanical Engineering**

All the programmes are fully accredited by both NUC and COREN.

The new prospectus which has been reviewed according to NUC Benchmark Minimum Academic Standards (BMAS) shall be of great value to students and staff of the College and other persons who may wish to obtain information on the academic programmes in all the six departments in the College of Engineering.

**Prof. P. B. Osofisan, FNSE**  
**Dean Gen. A. A. College of Engineering**

**DEPARTMENT OF CHEMICAL AND PETROLEUM ENGINEERING**

**DEPARTMENTAL STAFF LIST:**

S/N	NAME	QUALIFICATIONS	RANK/STATUS
1	Engr.Prof. E. O. Aluyor	1. Ph.D. (Chemical Engineering) 2. M.ENG 3. B.ENG (Chemical Engineering) 4. NSE, Corporate Member; COREN (R.1094)	Professor/Adjunct
2	Engr.Prof. A. I. Igbafe	1. Ph.D(Chemical Engineering). 2. M,Eng.(Chemical Engineering) 3. B.Eng.(Chemical Engineering) 4. COREN (R.11652)M.NSChE MNI Prod, MAICHe	Professor/Adjunct
3	Engr.Prof. E.S. Adewole	1. Ph. D(Pet Eng) 2. M.Sc. (Pet Eng) 3. B.Eng, 1989(Pet Eng) 4. MSPE, COREN R.17342	Professor/Adjunct
4	Prof. F.A. Aisien	1. Ph. D(Chemical Engineering). 2. M.Eng.(Chemical Engineering) 3. B.Eng.(Chemical Engineering)	Professor/Adjunct
5	Engr. S.E. Uwadiae	1. M.Eng.(Chemical Engineering) 2. B.Eng.(Chemical Engineering)	Lecturer II/Full-Time
6	Mr. Ngubi, Fredericks W	1. M.Eng.(Chemical Engineering) 2. B.Eng.(Chemical Engineering)	Lecturer II/Full-Time
7	Mr. Odisu, Teddy	1. M.Eng.(Chemical Engineering) 2. B.Eng.(Chemical Engineering)	Lecturer II/Full-Time
8	Mr. Azike, Rowland U	1. M.Eng.(Chemical Engineering) 2. B.Eng.(Chemical Engineering)	Lecturer II/Full-Time
9	Mr. Yerima, Yakubu	1. M.Eng.(Chemical Engineering) 2. B.Eng.(Chemical Engineering)	Lecturer II/Full-Time
10	Mr. OgbodoIfechukwu	B.Eng (FUTO), M.Sc. (UK)	Lecturer II/Full-Time
11	Mr. Azubuike Augustine	B.Eng, M.Eng. (FUTO)	Lecturer II/Full-Time
12	Mr. Mac-chuks Chukwuma	B.Sc., M.Sc. (UNIBEN)	Lecturer II/Adjunct
13	Mr. NwokoloNdubuisi	B.Eng, M.Eng (FUTO)	Lecturer II/Full-Time
14	Mr. Kumuyi, Sunday	B.Eng ; M.Sc.(UK)	Lecturer II/Full-Time
15	Mr. Oko Francis N.	B.Eng (FUTO), M.Sc. (FRANCE)	Lecturer II/Full-Time
16	Mrs. Obeta, Perpetual O	B.Eng (Petroleum Engineering)	Graduate Assistant
17	Mrs. Osakue, Yvonne Izoduwa	B.Eng (Petroleum Engineering)	Graduate Assistant

### TECHNICAL STAFF LIST:

S/N	Name	Rank/Designation	Qualification Obtained Dates
1	Mr. Omofuma, Fabian	Technologist II	HND(Auchi) OND (Auchi)
2	Mr. Emonshe, Simon Eneji	Senior Assistant Technologist	IMT (Usen)

### DEPARTMENTAL VISION

The vision of the Department is to be the best Chemical/Petroleum Engineering Department in any Nigerian University with national and international acclaim; a Department where the advancement of Engineering and technology is continuously dynamic, environment-friendly engineers, required in the public and private sectors of the economy are midwived for the rapid industrialization and development of Nigeria.

### DEPARTMENTAL MISSION

The departmental mission is to develop into a national resource that will continue to support the development of Nigeria, its economic diversification to make it responsive to the needs of government, industry and society. Thus, the department will provide:

- State-of-the-art technological and engineering training that prepares the graduates for responsibilities of the workplace.
- To produce qualified and competent chemical/Petroleum Engineers in such areas of specialization as – environmental engineering, well logging, well drilling, reaction engineering and separation processes.
- Engage in appropriate research activities, and, hence, produce the most sought-after engineers by all employers of labour, post graduate schools and research institutes.
- Establish industry-institution linkages for mutually beneficial relationships

Strive to become a Centre of Excellence in Engineering and Technology in the West-African sub-region where expertise and facilities to accelerate the pace of industrial development can be provided.

### OBJECTIVES:

- (f) To provide a highly motivated academic environment that fosters the academically minded to pursue further studies and research in **Chemical/Petroleum Engineering**
- (g) To develop manpower for the country.
- (h) To contribute to the supply of academic and professional advise both for Nigerian Universities and the Nigerian Industries.

### CONTINUOUS ASSESSMENT

To ensure a proper follow-up of students, assignments are given regularly to students, seminar presentations on each course are made by students; also tests are given at least twice in a semester before the final examinations. These continuous assessment tests/assignments and seminars contribute a total of 30 marks to the final grading at the end of the semester.

### ADMISSION REQUIREMENTS

- (i) Direct Entry Requirement:  
Two A' level passes in Physics and mathematics and an additional subsidiary subject. Candidates are expected to possess five credits including English Language, Mathematics, physics, chemistry and any other relevant science subject at O'level and A'level must be obtained at not more than two sittings; or

- (ii) A National Diploma certificate from approved universities or colleges of technologies or Polytechnics with a grade not lower than Merit. In addition, the applicant must possess five credit at WAEC/NECO/NABTEB/SSCE/GCE O' level or its equivalent in subjects which include English Language, Mathematics, Physics, chemistry and any other relevant science subject,
- (iii) Any other relevant credential approved by the Senate of the University.

### UME

Five O' level credits including English Language, Mathematics, Physics, chemistry and any other relevant science subjects.

- (a) Programme/Sub-discipline/Discipline Structure to include period of formal studies in the Universities. Industrial training, planned visit and projects.

B.Eng. (Chemical/Petroleum Engineering) - 5 years.

By Direct Entry-

OND 4 years

HND 3 years.

### Graduation Requirement

For a student to qualify for graduation from any of the programmes, such a student must have passed all the prescribed courses in addition to satisfactorily meeting the Industrial Training requirements, and all General studies courses of the University. Such a student must have also met the minimum number of years and not exceeded the maximum number of years required for graduation. See Table 1

**Table 1: Minimum and Maximum No. of years Required for Graduation**

Level of entry	Minimum number of years to graduate	Maximum number of years to graduate
100 level	5	7
200 level	4	6
300 level	3	5

The class of the Bachelor of Engineering Degree is determined by the final cumulative grade point average earned by the graduating student.

### Cumulative Grade Point Average (CGPA)

The CGPA for each level of course is calculated from a combination of the grade GP assigned to percentage scored obtained in the examination and the credit assigned to that course. The relationship is aptly displayed in Table 2

**Table 2: Calculation of GPA**

Courses attempted (a)	Credits attempted (b)	% Scores (c)	Letter grades (d)	Grade point (e)	Grade point credit weighed (f) = b) x (e)	Cumulative grade point average (GPA) (g)= $\sum(f)/\sum(b)$
CHE 211	3	70 – 100%	A	5	3x 5 = 15	46 = 2.42 19
CHE 221	3	60 – 69%	B	4	3 x 4 = 12	
MEE 231	4	50 – 59%	C	3	4 x 3 = 12	
CHE 241	2	45 – 49%	D	2	2 x 2 = 4	
CHE 251	3	40 – 44%	E	1	3 x 1 = 3	



CE 261	4	0 – 39%	F	0	4 x 0 = 0	
<b>Total</b>	<b>19</b>			<b>Total</b>	<b>46</b>	

Thus the student who attempted the 200 level courses shown in Table 2, sat for a total of 19 credits, and ended up with a GPA of 2.42 for that level. This mode of computation is done for each level per student. The cumulative grade points average, CGPA on which the classification of a graduating student is based, is the sum of the weighted grade point for all courses taken in the course of the study divided by the total credit load taken by the student throughout the study.

The CGPA computation is as shown in Table 3.

**Table 3: CGPA for a graduating student, Mr. XYZ**

Mat No. (a)	Name of Student (b)	Level (c)	Courses attempted (a)	Credits attempted (d)	Grade point (e)	Weighted Grade Point [(d) x (e)] (f)	CGPA = $\frac{\sum(f)}{\sum(d)}$ (g)
ENG9900020	Mr. XYZ	100	PHY 121	2	3	6	$\frac{99}{37} = 2.68$
			CHE 111	1	3	3	
			MTH 122	3	3	9	
		200	MEE 211	2	3	6	
			MEE 222	2	3	6	
			MEE 232	3	4	12	
		300	MEE 311	2	2	4	
			MEE 321	3	1	3	
			MEE 232	3	0	0	
		400	MEE 411	3	4	12	
			MEE 421	3	3	9	
			MEE 431	2	2	4	
		500	MEE 511	3	3	9	
			MEE 521	2	2	4	
			MEE 532	3	4	12	
			<b>Total</b>	37		99	

The degree classification, according to the CGPA recommended by the NUC is presented in Table 4:

**Table 4: Degree classification**

CGPA	Class of Degree
4.50 – 5.00	First Class
3.50 – 4.49	2 <sup>nd</sup> Class Upper Division
2.40 – 3.49	2 <sup>nd</sup> Class Lower Division
1.50 – 2.39	3 <sup>rd</sup> Class Lower Division
1.00 – 1.49	Pass

Thus, the candidate, Mr. XYZ who finished up with a CGPA of 2.68 has earned a 2<sup>nd</sup> Class Lower Degree.

**COURSE STRUCTURES/DESCRIPTIONS**  
**100 LEVEL COURSE STRUCTURE:**

SEM E STER	COURS E CODE	COURSE TITLE	SPREAD			CREDI T UNIT
			L	T	P	
F I R S T	CHM111	General Chemistry I	2	1	-	3
	CHM112	Organic Chemistry I	2	-	-	2
	MTH111	Algebra & Trigonometry	2	1	-	3
	MTH112	Calculus/Real Analyses	2	1	-	3
	PHY111	General Physics I (Mechanical and properties of matter)	2	1	-	2
	PHY112	General Physics II ( Fluid Dynamics/Elasticity)	2	-	-	2
	PHY113	General Physics III (Thermal Physics)	2	-	-	2
	GST111	Communication in English I	2	-	-	2
	GST112	Logic, Philosophy and Human Existence	2	-	-	2
	GST113	Nigerian Peoples and Culture	2	-	-	2
<b>TOTAL CREDITS</b>						<b>23</b>
S E C O N D	CHM121	General Chemistry II	2	1	-	3
	CHM122	General Chemistry	-	-	2	2
	CHM123	Organic Chemistry II	2	1	-	3
	MTH121	Vectors, Geometry/Statistics	2	1	-	3
	MTH122	Differential Equations & Dynamics	2	1	-	3
	PHY100	Practical Physics	-	-	6	1
	PHY121	Electromagnetism & Modern Physics	3	1	-	2
	PHY122	Modern Physics I	2	-	-	2
	PHY123	Waves, Vibration & Optics	2	-	-	2
	GST121	Use of library, study skills and ICT	2	-	-	2
	GST122	Communication in English II	2	-	-	2
	GST123	Communication in French	1	-	-	2
	IUITS102	Igbinedion University Industrial Training Scheme	-	-	-	1
<b>TOTAL</b>						<b>28</b>

**100 LEVEL FIRST SEMESTER COURSE DESCRIPTION**  
**CHM111 – General Chemistry I                      3 Credits**

Relationship of Chemistry to other sciences. Atoms, subatomic particles, Isotopes, Molecules. Avogadro's Number. Mole concept. Dalton's Theory, Modern concepts of atomic theory. The laws of chemical combination. Relative atomic masses. Nuclear binding energy, fission and fusion.

The states of matter:

- (i) Gases: Gas Law. The general gas equation.
- (ii) Liquids and Solids – Introduction to lattice structure, Isomorphism. Giant molecules. Introduction to the Periodic Table. Hydrogen and hydride Chemistry of Groups 0, I, II elements. Acid-Base properties of oxides.

### **CHM112: Organic Chemistry I 3 Credits**

#### **(a) General Principles of Organic Chemistry:**

- (i) Introduction: Definition of Organic Chemistry. Classification of Organic compounds. Homologous series. Functional groups.
- (ii) General procedure for isolation of purification of organic compounds.
- (iii) Determination of structure of organic compounds. Elemental analysis, percentage composition, empirical and molecular formula, structural formula.
- (iv) Isomerism. Structural isomerism and stereo isomerism.
- (v) Electronic theory in organic chemistry. Atomic models, quantum numbers, atomic orbital. Hybridization leading to formation of carbon-carbon, single, double and triple bonds. Hydrogen bonding, electronegativity. Dipole moment. Polarization, bond energy. Inductive and resonance effects.

#### **(b) Non-Polar Functional Group Chemistry:**

- (i) Alkenes: Structure and physical properties. Substitution actions including mechanism.
- (ii) Alkenes – Structure and physical properties. Reaction: addition (of  $H_2$ ,  $X_2$ ,  $HX$ ,  $H_2O$ ,  $O_3$ ), etc; Oxidation polymerization. Stereoisomerism – definition, geometrical and optical isomers, conditions for optical isomerism.
- (iii) Alkynes, structure. Acidity of acetylenic hydrogen. Reaction: addition of  $H_2$ ,  $X_2$ ,  $HX$ ,  $H_2$ ,  $H_2$ ,  $O$ , etc. Test for Alkynes.
- (iv) Benzene: Structure and aromaticity of benzene. Introduction to electrophillic.
- (v) Introduction to petro-chemistry. Origin of petroleum importance, fractional distillation of crude oil, components properties and uses. Octane number, cracking.
- (vi) Coal tar chemistry, origin, production, important components and uses.

#### **(c) Practical Organic Chemistry:**

Experiments in basic techniques in organic chemistry: determination of melting points and boiling points, filtration, distillation, fractional distillation, re-crystallization, tests for functional groups: organic preparations.

### **MTH111 – Algebra And Trigonometry 3 Credits**

Real number system: simple definition of integers, rational and irrational numbers. The principle of mathematical induction. Real sequences and series; elementary notions of convergence of geometric, arithmetic and other simple series. Theory of quadratic equations. Simple inequalities: absolute value and the triangle inequality. Identities: partial fractions.

Sets and Subsets, union, intersection, complements, properties of some binary operations of sets; distributive, closure, associative, cumulative laws with examples, relations in a set; equivalence relation. Properties of set functions and inverse set functions, permutations and combinations.

Binomial theorem for integer  $n - 0$  index: Circular measure, trigonometric functions of angles of any magnitude. Addition and factor formulae. Complex numbers; algebra of complex numbers, the Argand diagram, De Moivre's theorem,  $n$ -th root of unity.

**MTH112: Calculus/Real Analyses**

**3 Credits**

Elementary functions of a single real variable and their graphs, limits and the idea of continuity. Graphs of simple functions; polynomial, rational, trigonometric, etc., rate of change tangent and normal to a curve. Differentiation: as limit of rate of change of elementary functions, product quotient, function of function rules. Implicit differentiation of exponential functions. Logarithmic and parametric differentiation. Use of binomial expansion for any index. Stationary values of simple functions: maxima, minima and points of inflexion, integration by substitution and by parts. Definite integral: Volume of revolution, area of surface of evolution.

**PHY111: General Physics I (Mechanical and Properties of Matter) 3 Credits**

**Mechanics:** Scalars and Vectors: Addition and resolution of vectors. Rectilinear motion and Newton's law of motion. Inertial mass and gravitational mass; free fall; projectile motion; deflecting forces and circular motion. Newton's law of gravitation; satellites, escape velocity. Gravitational potential, potential; potential well; special case of circular motion.

Momentum and the conservation of a momentum. Work, power energy; units. Potential energy for a gravitational field and elastic bodies; kinetic energy conservation of energy; energy stored in a rotating body. Kinetic energy in elastic and inelastic collisions.

**PHY112 General Physics**

**2 Credits**

**PHY113 Thermal Physics:**

**2 Credits**

Temperature, heat, work; heat capacities; second law, Carnot cycle; thermodynamic ideal gas temperature scale. Thermal conductivity; radiation; black body and energy spectrum, Stefan's law.

Kinetic model of a gas: equation of state, concept of diffusion, mean free path, molecular speeds, Avogadro's number, behaviour of real gases. A model for a solid: inter-particle forces in solids, liquids and gases; physical properties of solids.

Crystalline structure: Close packing, orderly arrangements, elastic deformation of an ordered structure; interference patterns and crystals.

Model for Matter: Surface energy and surface tension, plastic deformation; thermal and electrical properties of metals.

**GST111: Communication in English I**

**2 Credits**

Effective communication and writing in English, Language skills, writing of Essay answers, comprehension, sentence construction, outlines and paragraphs, collection and organization of materials and logical presentation, punctuation.

**GST112: Logic, Philosophy and Human Existence**

**2 Credits**

A brief survey of the main branches of Philosophy. Symbolic logic, Special symbols. Logic-conjunction, negation, affirmation, disjunction.

**GST113 : Nigerian Peoples and Culture**

**2 Credits**

Study of Nigerian history, culture and arts in pre-colonial times, Nigerian's perception of his world, culture areas of Nigeria and their characteristics. Evolution of Nigeria as a political unit. Indigene/settler phenomenon. Concepts of trade, economic self reliance, social justice, individual and

national development. Norms and values, negative attitudes and conducts (cultism and related vices). Re-orientation of moral environmental problem.

## SECOND SEMESTER DESCRIPTION

### CHM121: General Chemistry II

3 Credits

Acids, Bases and Salts. Quantitative analysis. Theory of volumetric analysis – operations and methods. Calculations: mole, molality, molarity. Behaviour of electrolytes. Water. Colligative properties. Ostwald's dilution law. Arrhenius, Bronsted-Lowery, Lewis concepts and applications. Buffers. Introduction to reaction rates. Equilibria and equilibrium constants. Solubility products. Common ion effects. Precipitation reactions.

### CHM122 Practical Chemistry

2 Credits

Theory and Practice of quantitative thermal analysis, acid-base oxidation-reduction precipitation and complexometric titrations. Gravimetric analysis. Calculations data analysis and organic analysis for elements in groups IA, IIIA, 11B, IV. Thermal analysis of carboxylic etc.

### CHM123: Organic Chemistry II

3 Credits

#### (a) Polar Functional Group Chemistry:

- (i) Hydroxyl group – Alcohol and phenols. Classification. Acidity-comparison. Important methods of preparation. Reactions: with metals, bases, alkyl halides. Oxidation, dehydration. Tests for alcohols and phenols, importance.
- (ii) Carbonyl group – Aldehydes and ketones structure: Physical properties. Important methods of preparation. Reactions: Tollen's reagent, Fehling's solution, Benedict's solution, Iodoform reaction; with HCN,  $\text{NaHSO}_3$ ; alcohols, including mechanisms, with ammonia, hydrazines and their derivatives, including mechanisms; aldol condensation. Tests for aldehydes and ketones. Importance.
- (iii) Carboxylic group: Mono-carboxylic acids. Structure. Physical properties. Acidity and resonance. Important methods of preparation, from alcohols, aromatic hydrocarbons, through Grignard's reagent. Reaction with bases. Conversion to esters, amides, halides and anhydrides. Tests for carboxylic acid. Importance.
- (iv) Carboxylic acid derivatives: Anhydrides acid halides esters and amides. Change of reactivity when OH of acid is replaced by  $-\text{OOCOR}$ ,  $-\text{OR}$ ,  $-\text{NR}$ . Reaction with water, alcohols, ammonia and amines.  $\text{LiAlH}_4$ , Test for esters.
- (vi) Amino group – Amines. Structure, Physical properties. Important methods of preparation. Reaction with acids, basicity and salt formation; Alkylation, acylation, with nitrous acids. Heisenberg method of separation. Tests for amines, importance.

#### (b) Miscellaneous Topics:

- (i) Fats and Oils: Definition, importance, Saponification, Soaps and detergents. Modes of cleaning action. Reaction of soap with hard water, mineral acids. Drying oils, mode of action, use in paints and varnishes.
- (ii) Amino acids, Proteins: Definition, classification, essential amino acids, special properties and reactions, iso-electric point, tests, importance.
- (iii) Carbohydrates: Definition, classification, importance, nomenclature, structure and reactions of glucose.
- (iv) Natural Products: Main classes (other than lipids carbohydrates and proteins); Steroids, terpenoids, alkaloids, prostaglandins definition, importance, examples.

**MTH121: Vectors, Geometry And Statistics:****3 Credits**

- (a) Vector and Coordinate: Types of vectors; points, line and relative vectors. Geometrical representation of vectors in 1 – 3 dimensions. Addition and vectors and multiplication by scalar; Components of vectors in 1, 3 dimensions; direction cosines. Linear independence of vectors. Point of division of a line. Scalar and vector products of two vectors. Simple applications. Two-dimensional coordinates geometry; straight lines, angle between two lines, distance between points. Equation of circle, tangent and normal to a circle. Properties of parabola, ellipse, hyperbola. Straight lines and planes in space, direction cosines; angle between line and between 3 lines and planes; distance of a point from a plane; distance between two skew lines.
- (b) Statistics: Introduction of statistics. Diagrammatic representation of descriptive data. Measures of location and dispersion for ungrouped data. Grouped distribution measures of location and dispersion for grouped data. Problems of grouping. Associated graphs. Introduction to probability: sample space and events, addition law, use of permutation and combination in evaluating probability. Binomial distribution. Linear correlation; scatter diagram, product-moment and rank correlation. Linear regression.

**MTH122: Differential Equations And Dynamics****3 Credits**

- (a) Differential Equations: Formation of differential equation of 1<sup>st</sup> degree and 1<sup>st</sup> order. Variables, separable, exact, homogenous and linear, differential equations of the 2<sup>nd</sup> order with constant coefficients.
- (b) Dynamics: Resume of simple kinematics of a particle. Differentiation and integration of vectors with respect to a scalar variable. Application to radial and transverse, normal and tangential, components of velocity and acceleration of a particle moving in a plane. Force, momentum and laws of motion; law of conservation of linear momentum. Motion under gravity, projectile. Simple cases of resisted vertical motion. Motion in a circle (horizontal and vertical). Law of conservation of angular momentum. Applications of the law of conservation of energy. Work, power and energy. Description of Simple Harmonic Motion (SHM). SHM of a particle attached to an elastic string or spring. The simple pendulum. Impulse and change in momentum. Direct impact of two smooth spheres, and of a sphere on a smooth plane.
- (c) Rigid body motion: Moments of inertia, parallel and perpendicular axes theorems. Motion of a rigid body in plane with one point fixed, the compound pendulum. Reactions at the pivot. Pure rolling motion of a rigid body along a straight line.

**PHY100: Practical Physics****2 Credits**

Students are expected to carry out a minimum of 12 major experiments covering the main aspects of the courses taken in the year. pre-requisites: 0-Level or WASC.

**PHY121: Electromagnetism****2 Credits**

Electric field: Strength, flux and the inverse square law; electrostatic force between two charged particles; flux model for the electric field. Energy stored in an electric field, electrical potential due to dipole.

Steady direct currents: Simple circuits; potential difference resistance, power, electromotive force, Kirchoffs laws; potential divider, slide-wire potentiometer, bridge circuits, combining resistances.

Capacitors: Capacitance, combination of dielectrics, energy stored, charging/discharging. Electromagnetic effects; electromagnetic forces, electric motors, moving coil galvanometer, ammeter, voltmeter, electromagnetic induction, dynamo.

Alternating currents: Simple A.C. circuits, transformers, motors and alternating currents. Magnetic field: The field at the center of a current-carrying flat coil of a current carrying solenoid, outside a long solenoid, flux model and magnetic fields. Electromagnetic induction: Induction in a magnetic field; magnitude and direction of induced e.m.f; energy stored in a magnetic field; self-inductance. Electricity and matter: Current flow in an electrolyte, Millikan experiment; conduction of electricity through gases at low pressure, cathode rays; photo-electricity.

**PHY122: Modern Physics I**

**2 Credits**

Structure of atom: Atomic theory, X-rays, Planck Quantum theory; Wave-particle nature of matter: scattering experiment of Geiger and Marsden, Rutherford atom model, Bohr's atom model.

Structure of nucleus: Composition of nucleus, artificial transmutation of an element, natural transmutation of an element; discovery of neutron, particle, emission, isotopes, and gamma radiation.

Prerequisite: O-Level or WASC.

**PHY123: Waves, Vibrations And Optics:**

**2 Credits**

Periodic motion of an oscillator: Velocity and acceleration of a sinusoidal oscillator, equation of motion of a simple harmonic oscillator: damped oscillations; forced oscillations; resonance; propagation of longitudinal and transverse vibrations.

Wave and light: Mirrors, formation of images, thin lenses in contact, microscope, telescope; chromatic and spherical aberrations and their reduction, Dispersion by prisms; relations between colour and wavelength; spectra.

**GST121: Use of Library, Study skills and ICT**

**2 Credits**

A brief history of libraries, Library and education. University library and other types of libraries. Study skills (reference services). Types of library material. Using library resources including e-learning, e-materials, etc. Understanding library catalogues (card, OPAC etc), and classification, copyright and its implications. Data base resources, bibliographic citations and referencing. Development of modern ICT hardware technology, software technology. Input devices, storage devices, output devices. Communication and internet services, word processing skills (typing etc)

**GST122: Communication in English II**

**2 Credits**

Logical presentation of papers. Phonetics, instruction on lexis, art of public speaking and oral communication. Figures of speech. Précis, Report writing.

**GST123: Communication in French**

**2 Credits**

Introduction to French, Alphabets and numeric for effective communication (written and oral). Conjugation and simple sentence construction based on communication approach. Sentence construction, comprehension and reading of simple texts.

**IUITS 102: Igbinedion University Industrial Training Scheme 1** **1 Credit**

A 6-week intensive training program within the university. Introductory lectures on engineering; Exposure and visits to engineering project sites both within the university; neighbourhood; and visit to engineering based establishments. Intensive industrial training in the university engineering workshops, etc. Students submit and defend reports at the end of the exercise. They also write examination.

### 200 LEVEL COURSE STRUCTURE

Semester	Course Code	Course Title	L	T	P	Course Credit	Pre-Requisite
FIRST	MEE 221	Engineering Drawing I	1	-	2	2	
	MEE 231	Strength of Materials	1	1	-	2	
	MEE 251	Thermodynamics I	1	1	-	2	
	MEE 271	Manufacturing Technology/Workshop Practice	1	-	1	2	
	ELA 201	Laboratory	-	-	9	3	
	EMA 201	Engineering Mathematics I	2	1	-	3	
	ECP 201	Computers and Computing	2	1	-	3	
	EEE 211	Electrical Engineering I	2	1	-	3	
	ENS 211	Engineer in Society	1	1	-	1	
	EPS223	Introduction to Entrepreneurial Skills	1	1	-	2	
	GST 211	History and Philosophy of Science	1	1	-	2	
<b>Total Credits</b>						<b>25</b>	

Semester	Course Code	Course Title	L	T	P	Course Credit	Pre-Requisite
Second	CHE202	Introduction to Chemical Engineering	2	1	-	3	
	MEE 212	Applied Mechanics	2	1	-	3	
	MEE 242	Material Science	1	1	-	2	
	MEE 262	Fluid Mechanics I	1	1	-	2	
	ELA 202	Lab/W/Shop Practice	-	-	9	3	
	EMA 202	Engineering Mathematics II	2	1	-	3	
	ECP 202	IT in Engineering	1	-	3	2	
	CHE 212	Physical Chemistry	2	1	-	2	
	GST 221	Peace Studies and Conflict Resolution	1	1	-	2	
	IUITS 202	Igbinedion University Industrial Training Scheme.				1	
	<b>Total Credits</b>						<b>23</b>



## FIRST SEMESTER

### **MEE221: Engineering Drawing (2 Credits)**

- i. Use of draughting instruments, lettering, dimensioning, layout.
- ii. Engineering graphics - Geometrical figures, comics, etc. Graphical calculus and Applications. Development, intersection of curves and solids.
- iii. Projections – Lines, planes and simple solids. Orthographic and isometric projections, simple examples. Threaded fastness.
- iv. Pictorial/Freehand sketching.
- v. Conventional practices.
- vi. Introduction to computer aided drafting: Electronic draughting packages: principle and use in Engineering design. Simulation packages: principle and use in engineering.

### **MEE231: Strength of Materials (2 Credits)**

- i. Force equilibrium – free body diagrams.
- ii. Concept of stress, strain, tensile test. Young's modulus and other strength factors.
- iii. Axially loaded bars, composite bars, temperature stresses and simple indeterminate problems. Hoop stresses in cylinders and rings.
- iv. Bending moment, shear force and axial force diagrams for simple cases, simple torsion and applications.

### **MEE 251: Thermodynamics I (2 credits)**

- i. Basic concepts, definitions and laws.
- ii. The ideal gas, Heat and Work.
- iii. The first law of thermodynamics, applications to open and closed systems.
- iv. The steady state flow equation (Bernoulli's Equation) and applications.
- v. Second law of thermodynamics and Heat cycles.

### **MEE271: Manufacturing Technology/Workshop practice I (2 Credits)**

Elementary introduction to types and organization of engineering workshops, covering jobbing, batch, mass production.

- i. Engineering materials: their uses and properties.
- ii. Safety in Workshops and general principles of working. Bench work and fittings: hand tools, instruments.
- iii. Carpentry: Hand-tools and working principles. Joints and fastenings: Bolt, rivet, welding, brazing, soldering. Measurement and marking: for uniformity, circularity, concentricity, etc.
- iv. Blacksmith: Hand tools and working principles. Joints and fastenings: Bolt, rivet, welding, brazing, soldering. Measurement and marking: for uniformity, circularity, concentricity, etc.
- v. Standard measuring tools used in workshop. Welding, brazing and soldering: Principles, classification, power source.
- vi. General principles of working of standard metal cutting machine tools.
- vii. Invited lectures from professionals.

### **ELA 201: Laboratory (3 Credits)**

- 1 Verification of Boyle's Law
- 2 Specific Heat Capacity Determination

**EMA201: Engineering Mathematics I (3 Credits)**

- a) Complex Analysis: Roots of a complex number. Addition formulae for any number of angles. To express sine in series or cosines of multiple angles. Exponential function of a complex variable. Circular functions of complex variable. Hyperbolic functions. Real and imaginary parts of circular and hyperbolic functions. Logarithmic functions of a complex variable. Real numbers; sequence and series; their convergence and divergence.
- (b) Vector: Force, moment and angular velocity. Vector differentiation and integration.
- (c) Linear Algebra: Linear spaces, algebra of determinants and matrices.
- (d) Calculus: Differentiations and applications. The mean value theorem and its applications. Extension of mean value theorem. Taylor and Maclaurin formulae, Leibnitz's theorem. (Application to the solution of differential equations with variable coefficients), de L'Hospital's. Partial derivatives of functions of two and more variables.

**ECP201: Computer and Computing (2 Credits)**

Program design using pseudo-code/Flowchart extensive examples and exercises in solving engineering problems. Computer programming using structure basic such as QBASIC symbols, keywords, identifiers, data types, operators, statements, flow of control, arrays, functions and procedures. Extensive examples in solving engineering problems using QBASIC. Use of Visual Programming such as visual Basic in solving Engineering problems.

**EEE211: Electrical Engineering I (2 Credits)**

Units. Basic circuit elements and their behaviour in DC circuits. Basic circuit laws and theorems. Introduction to A.C. circuit. Resonance, power and power factor. 3-phase circuits. Basic distribution system. Electrical Measurement: Voltmeters, Ammeters, Ohmmeters, Wattmeters, Energy meters, Measurement of three phase power.

**ENS211: Engineer in Society (1 Credits)**

- (i) Philosophy of Science
- (ii) History of Engineering and Technology
- (iii) Safety in Engineering and Introduction to risk analysis
- (iv) The role of Engineers in nation building
- (v) Invited lectures from professionals.

**EPS 223: Introduction to Entrepreneurial Skills (2 Credits)**

Introduction to entrepreneurship and new venture creation; Entrepreneurship in theory and practice; The opportunity, forms of business, staffing, marketing and the new venture; Determining capital requirements, raising capital; Financial planning and management; Starting a new business, Feasibility studies; innovation; Legal issues; insurance and environmental considerations. Possible business opportunities in Nigeria.

**GST 211: History and Philosophy of Science (2 Credits)**

Man- his origin and nature, Man and his cosmic environment, scientific methodology, science and technology in the society and service of man. Renewable and non-renewable resources- man and his energy resources. Environmental effects of chemicals, plastics, textiles wastes and other materials, Chemical and radiochemical hazards. Introduction to the various areas of science and technology. Elements of environmental studies.

## SECOND SEMESTER

### **CHE 202: Introduction to Chemical Engineering (3 Credits)**

Definition of Chemical Engineering. Types of Reactor (Ideal and non-ideal; batch, Plug flow, mixed flow) Simple unit operations e.g drying, distillation, crystallization. Fundamentals of material balances (recycle and bypass), and material balances. Energy balances in open and closed systems. Heat exchangers.

### **MEE 212: Applied Mechanics (3 Credits)**

Statics: Laws of statics, system of forces and their properties. Simple problems, friction.

- i. Particle dynamics – Kinematics of plane motion. Newton's laws – kinetics of particles, momentum and energy methods.
- ii. Kinematics of rigid bodies – velocity and acceleration diagrams for simple problems.
- iii. Kinetics of rigid bodies – Two dimensional motion of rigid bodies, energy and momentum, Mass moment of inertia. Simple problems.
- iv. Simple harmonic motions.

### **MEE242: Materials Science (2 Credits)**

Atomic and molecular structure, crystals and amorphous structure. Metallic state. Defects in crystals. Conductors, semi-conductors and insulators.

- i. Alloy Theory – Application to industrial alloys. Steel in particular.
- ii. Engineering properties – Their control, hot and cold working, heat treatment, etc. Creep, fatigue and fracture. Corrosion and corrosion control.
- iii. Non-metallic materials – glass, rubber, concrete, plastics, wood and ceramics.
- iv. Elastic and plastic deformations: Defects in metals.

### **MEE 262: Fluid Mechanics I (2 credits)**

- i. Elements of fluid statics; density, pressure, surface tension, viscosity, compressibility etc.
- ii. Hydrostatic forces on submerged surfaces due to incompressible fluid.
- iii. Introduction to fluid dynamics – conservation laws.
- iv. Introduction to viscous flow.

### **ELA 202: Laboratory (3 Credits)**

- 2 Enthalpy Change Of Solution
- 3 Determination of the Physical Properties of Oil: (i) Specific gravity (ii) Viscosity (iii) Density (iv) Dynamic Viscosity (v) Kinematic Viscosity

### **EMA202: Engineering Mathematics II (3 Credits)**

- (a) Further Integrations: Reduction formulae
- (b) Differential Equations –
  - (i) General Review: Exact differential equations. Simple applications in geometry, mechanics, chemical reactions and heat flow.
  - (ii) Second Order linear differential equations with constant coefficients. Further D-operator method. Solution of second order differential equations by method of change of variables. Introduction to partial differential equations (separation of variables).
- (c) Mechanical and Electrical Oscillations: Oscillations of damped and undamped mechanical systems. Electric circuit theory. Resonance.
- (d) Numerical Methods: Introduction to numerical computation. Solution of non-linear equations. Solution of simultaneous linear equations -both direct and

iterative schemes. Finite difference operators. Introduction to linear programming (Graphical solution).

**ECP202: IT in Engineering**

**(2 Credits)**

Historical developments of Computers, External Components of computers, Characteristics of a computer, types and classification of hardware and software. Word processing : principle of operation, application, demonstration and practical hand- on exercises in word processing using a popular word processing package. Spread sheet : principle of operation, application, demonstration and practical hand- on exercises in the use of spread sheet to solve problems. Presentation software packages: principle of operation, application, demonstration and practical hand- on exercises in the use of popular report presentation package (such as power point). Mini project to test proficiency in the use of software packages. Database management Package: : principle of operation, application, demonstration and practical hand- on exercises in the use of DBMS package in solving problems. Matlab : principle of operation, application, demonstration and specific functions/toolboxes to solve specific engineering problems.

**EEE212: Electrical Engineering II**

**(2 Credits)**

Physics of Devices: Atomic structure, material classification, electron emission, gas discharge devices, semiconductor materials, p-n junction diode and transistor. Transistor amplifier, D.C. and A.C. analysis of transistor amplifier circuits. Transistor switching characteristics. Rectification and D.C. power supplies, Transformers, Introduction to DC and AC machines.

**CHE 212 Physical Chemistry**

**(2 Credits)**

Thermo-chemistry, electro-chemistry, kinetic theory, gas laws, transition metals, introductory organic and inorganic chemistry.

**GST 222: Peace Studies and Conflict Resolution**

**(2 Credits)**

Basic concepts in peace studies and conflict resolution. Peace as vehicle of unity and development. Conflict issues, Types of conflicts e.g Ethnic/religious/political/economic conflicts. Root causes of conflicts and violence in Africa. Indigene/settler phenomenon, peace-building. Management of conflict and security. Elements of peace studies and conflict resolution. Developing a culture of peace, peace mediation and peace-keeping. Alternative Dispute Resolution(ADR), dialogue/arbitration in conflict resolution. Role of international organisations in conflict resolution, e.g. ECOWAS, African union, United Nations etc.

**IUITS 202 Igbinedion University Industrial Training Scheme**

**(1 Credit)**

## A. CHEMICAL ENGINEERING OPTION

### 300 LEVEL CHEMICAL ENGINEERING COURSE STRUCTURE (OPTION)

SEME STER	COURS E CODE	COURSE TITLE	L	T	P	Course Credit
F I R S T	CHE311	Chemical Engineering Thermodynamics	2	1	-	3
	CHE321	Biochemical Engineering	3	1	-	4
	CHE341	Industrial Process Calculations	2	1	-	2
	CHE361	Fluid Flow	2	1	-	2
	CHE371	Separation Processes	2	1	-	3
	EMA301	Engineering Mathematics	2	1	-	3
	GRE331	Research methods and Technical Report Writing (GRE331)	2	-	-	2
	EPS321	Introduction to Entrepreneurship Studies	1	-	1	2
	ELA301	Chemical Engineering Laboratory	1	-	6	2
<b>Total credits</b>						<b>23</b>

SEME STER	COURSE CODE	COURSE TITLE	L	T	P	Course Credit
S E C O N D	CHE312	Computer Application in Chemical Engineering I	2	1	-	2
	CHE322	Process Instrumentation	2	1	-	2
	CHE332	Chemical Kinetics	2	1	-	3
	CHE362	Transport Phenomena	3	1	-	4
	CHE372	Particle Technology	1	1	-	2
	EMA302	Engineering Mathematics	2	1	-	2
	ELA302	Chemical Engineering Laboratory	1	-	6	4
	IUITS302	Igbinedion University Industrial Training Scheme	-	-	6	1
<b>Total credits</b>						<b>20</b>

### 300 LEVEL:

#### EMA 301: Engineering Mathematics Iii (2 CREDITS)

- Linear Algebra: Elements of Matrices, determinants, inverse of a matrix. Theory of a system of linear equations. Eigenvalues and Eigenvectors of a matrix.
- Analytic geometry: coordinate transformation. Solid geometry. Polar, cylindrical and spherical coordinates.
- Functions of several variables: Mean value theorem of function of several variables, maxima and minima, differentiation under the sign of integration. Jacobians.
- Numerical Analysis: Numerical differentiation and **quadrature formulae**. Analytic and numerical solution of ordinary differential equations. Curve fitting. Simple linear programming (simplex method).

**CHE 311: Chemical Engineering Thermodynamics II (3 Credits)**

The second law. Thermodynamic properties of pure fluids and mixtures. Isothermal, isentropic and polytropic expansion. Conversion of heat into work by power. Carnot cycle. Thermodynamic cycles. Refrigeration. Steam and gas turbines.

**CHE 321: Biochemical Engineering (4 credits)**

Introduction to microbiology and Biochemistry. Classification and growth characteristics of microorganisms. Enzymes in Engineering. Microbial culture processes in manufacturing industries.

**CHE 341: Industrial Process Calculations (2 credits)**

Introduction to equipment of chemical plants; Equipment for movement and storage of material, Heat transfer equipment, Mass transfer Equipment and equipment for physical processes. The chemical equation and stoichiometry: limiting reactant, excess reactant, conversion, selectivity and yield. Material Balances: Calculations for steady state systems involving inerts, recycle, by pass and purges. Energy Balances: Forms of energy and overall energy balance for a chemical system. Heat capacities. Calculation of enthalpy changes: heats of fusion, vaporization, reaction, formation and combustion, solution and mixing. Combined material and energy balances. Enthalpy concentration charts application and construction.

**CHE 361: Fluid Flow For Chemical Engineers (2 Credits)**

Introduction: Definitions and principles. Fluid statics and its applications. Basic equation of fluid flow. Bernoulli's equation. Flow of incompressible fluids. Flow of compressible fluids. Flow past immersed bodies. Fluid friction in one-dimensional flow. The momentum balance. Transportation and metering of fluids. Agitation and mixing of fluids. Pumps, compressors and turbines. Flow through porous media. Non-Newtonian fluids.

**CHE 371: Separation Processes I (3 Credits)**

Stage-wise and continuous contact equipment. Isothermal gas absorption. Binary distillation. Leaching. Hydrodynamics of packed and plate columns.

**GRE 331: Technical Communications (2 Credits)**

Oral communication: Public speaking skills with effective use of visual aids and statistical and technical information. Principles of effective communication in interpersonal and mass communication process. Effective reading skills – extracting main ideas and reading for specific information through speed reading. Written communication: Principles of technical writing.

**ELA 301: Chemical Engineering Laboratory I (2 Credits)**

Laboratory experiments in transport phenomena. Kinetics and separation processes.

**EPS 321: Introduction to Entrepreneurship Studies (2 Credits)**

Some of the ventures to be focused upon include the following:

1. Soap/Detergent, Tooth brushes and tooth paste making
2. Photography
3. Brick, nails, screws making
4. Dyeing/Textile blocks, paste making
5. Rope making
6. Plumbing
7. Vulcanizing
8. Brewing
9. Glassware production/Ceramic, production

10. paper production
11. Water treatment/Conditioning/ Packaging
12. Food processing/Packaging/ Preservation
13. Metal working/Fabrication- Steel aluminum door and windows
14. Training Industry
15. Vegetable oil/Salt extractions
16. Fisheries/ Aquaculture
17. Refrigeration/Air conditioning
18. Plastic making
19. Crop farming
20. Domestic Electrical wiring
21. Radio/ TV repairs
22. Carving
23. Weaving
24. Brick laying / making
25. Bakery
26. Tailoring
27. Iron Welding
28. Building drawing
29. Carpentry.
30. Leather tanning
31. Interior decoration
32. Printing
33. Animal husbandry (Poultry, pigry, goat, etc.)
34. Metal craft: Blacksmith, Tinsmith, etc.
35. Sanitary wares
36. Vehicle maintenance
37. Book keeping.
38. Computer installation and repairs

## **SECOND SEMESTER**

### **CHE 312: Computer Applications In Chemical Engineering I (2 Credits)**

Introduction: Structure and parts of computer. Input and output devices. Central processing unit. The spread sheet. Menu and toolbars, cell address. Absolute addressing. Range of cells. Design and creation of template. Advantages of the spreadsheet (copying). Function evaluation. What if analysis, circular referencing. Matrix methods. Material and energy balance calculations using spreadsheet. Handling of recycle and purge using calculation options. Creation and use of scratch pad. Graphs plotting. Formatting of plots. Adding of trends lines, slope and correlation coefficient. Numerical differentiation and integration using excel. Calculation of reactor volumes. Use of commercial software in solving material and energy balance problems e.g. ChemCAD and Hysys.

### **CHE 322: Process Instrumentation (2 credits)**

Measuring instruments for level, pressure, flow, temperature and physical properties. Chemical composition analyzers. Measurement. Gas chromatograph. Mass spectrometer. Sampling systems.

### **CHE 332: Chemical Reaction Kinetics/Engineering I (3 credits)**

Measurement and analysis of wreathing reaction. Homogeneous reactions. Catalysis. Chain reactions. Kinetics of heterogeneous and catalytic reactions. Photochemistry. Absorption of gases on solids. Application to gas chromatography.

**CHE 362: Transport Phenomena I (4 credits)**

Compressible flow: Normal shock waves. Non-Newtonian fluids. Radiation. Mechanism of Radiative heat transfer. Heat exchange between radiating surfaces Unsteady state condition. Free and forced convective heat transfer. Determination of heat transfer coefficients. Application to design of heat exchangers. Diffusion of vapours. Diffusion in liquids and solids.

**CHE 372: Particle Technology (2 credits)**

Properties of particles. Motion of particles in a fluid. Stokes and Newton's law. Flow through packed beds. Fluidization. Sedimentation and flocculation. Filtration. Screening, Classification, Size reduction.

**EMA 302: Engineering Mathematics IV (3 Credits)**

- Fourier series: Euler coefficients. Even and odd functions. Sine and Cosine functions; simple applications.
- Gamma, Beta and probability function (emphasis rather on the applications).
- Differential Equations: Linear second order equations reducible to linear equation with constant coefficients. Series solution of differential equation. Legendre and Bessel functions and their properties.

Vector Field Theory: Dot product, cross product, divergence. Curl and Del operators. Gradient. Line, surface and volume integrals, and related theorems.

**ELA302: Chemical Engineering Laboratory II (2 Credits)**

Further laboratory experiments in transport phenomena, kinetics and separation processes.

**400 LEVEL COURSE STRUCTURE****TABLE 2.2: 400 Level Chemical Engineering Course Structure**

SEME STER	COURSE CODE	COURSE TITLE	SPREAD			COURSE CREDIT	PRE- REQUISITES
			L	T	P		
First	CHE 411	Chemical Engineering Thermodynamics II	1	1		2	CHE 311
	CHE 421	Chemical Engineering Analysis	2	1	-	2	EMA302
	CHE431	Plant Design I	2	1	-	2	CHE 341
	CHE451	Transport Phenomena II	3	1	-	4	CHE352
	CHE461	Separation Processes II	3	1	-	4	-
	CHE471	Economics For Engineers	1	1		2	
	CHE 481	Computer Applications in Chemical Engineering	2	1	6	2	CHE 312
	CHE491	Introduction to Entrepreneurship Studies	1	1	3	2	
	EMA401	Engineering Mathematics	1	1	-	2	EMA301/302
	ELA 401	Laboratory/Workshop Practice	1	-	9	2	ELA 202
		<b>Total credits</b>				<b>24</b>	
2 <sup>nd</sup>	IUITS	Six Months Industrial Training				<b>6</b>	

**400 LEVEL COURSES CONTENTS**



**CHE 411: CHEMICAL ENGINEERING THERMODYNAMICS II 2 credits**

The Euler equation. Gibbs-Duhem Equation. Phase equilibria. Partial molar quantities. Chemical reaction equilibria- Multi-component system. Non Ideal Systems.

**CHE 421: CHEMICAL ENGINEERING ANALYSIS (Elective) 2 credits**

Applied ordinary and partial differential equations. Chemical engineering operations and their numerical solutions. Statistics: types of observation. Analysis of variance. Tests of significance. Regression analysis. Design of experiments.

**CHE 431: PROCESS DESIGN I 2 credits**

Introduction to factors relating to process design. Process diagrams: Block diagrams, process flow diagram. Process engineering diagrams. Process Instrumentation Diagram (PID). Material Balances for systems with recycles and inerts. Heat balances. Use of Microsoft excel in calculating material and energy balances. Use of commercial software (Chem CAD or Design 2000) in material and heat balances calculations. Use of AutoCAD to generate process flow diagrams. Specification and selection of process equipment. Specification of process utilities: water, air, electricity, steam. Economic analysis: capital and manufacturing cost estimation break-even analysis; depreciation, discounted cash flows, Rate of return on investment, discounted cash flow rate of return, sensitivity analysis.

**CHE451 SEPARATION PROCESSES II 4 Credits**

Drying of solids. Multiple-effect evaporators. Crystallization. Ion-exchange. Reverse osmosis, humidification and water cooling.

**CHE461 TRANSPORT PHENOMENA II 4 Credits**

Boundary layer theory and turbulence. Navier-Stokes equations. Universal velocity profile. Condensation and boiling. Eddy diffusion. Theories of mass transfer with chemical reaction. Inter-phase mass transfer.

**CHE 471: ECONOMICS FOR ENGINEERS 2 Credits**

Introduction to economics. Economic analysis. Capital cost and manufacturing cost estimation. Financial analysis. Discounted cash flow analysis. Accounting and depreciation. Sensitivity analysis. Break-even analysis.

**CHE 481: COMPUTER APPLICATIONS IN CHEMICAL ENGINEERING II 2 credits**

Solution of chemical engineering problems using computer packages. User defined functions and other advanced calculation options in Microsoft excel. Optimization of chemical processes using excel. Process simulation using commercial computer package (ChemCADHysys etc). Introduction to AutoCAD: Menu, toolbars, short-cut menu, drawing aids. Object creation and modification. Computer aided drawing of process equipment, flow diagrams and process instrument diagrams. Introduction to programming in C++, Neural Networks

**CHE 491: INTRODUCTION TO ENTREPRENEURSHIP STUDIES 2 Credits**

Some of the ventures to be focused upon include the following:

1. Soap/ Detergent making
2. Brewing
3. paper production
4. Electroplating of household wares

**EMA401: ENGINEERING MATHEMATICS IV ELECTIVE 2 Credits**

Complex variables – advanced topics; differentiation and integration of complex functions. Cauchy-Riemann equations: Related theorems. Laplace and Fourier transforms – applications.. Probability – Elements of probability, density and distribution functions, moments, standard distribution, e.t.c. Statistics – Regression and correlation – Large sampling theory. Test, hypothesis and quality control.

**ELA401: CHEMICAL ENGINEERING LABORATORY III 2 Credits**

Laboratory experiments in transport phenomena. Separation processes and thermodynamics.

**500 LEVEL COURSE STRUCTURE**

SEMESTER	COURSE CODE	COURSE TITLE	SPREAD			COURSE CREDIT	PRE-REQUISITES
			L	T	P		
First	CHE 511	Process Dynamics, and Control	3	1	-	4	CHE 421
	CHE 521	Process Optimization	2	1	-	3	CHE 421
	CHE 531	Process Design II	2	1	-	3	CHE 431
	CHE 541	Separation Processes III	2	1	-	3	CHE 461
	CHE551	Petroleum Refining Processes	2	1	-	3	
	CHE 561	Chemical Reaction Engineering III	2	1	-	3	CHE 471
	CHE 571	Biochemical Engineering II	2	1	-	3	
	CHE 591	Polymer Engineering II	2	1	-	3	CHE 321
	GRE 501	Engineering Management /Law	2	1		3	GRE331
	CHE 501	Project	-	-	9	3	-
<b>Total credits</b>						<b>31</b>	
Second	CHE 512	Loss Prevention in the Process	2			2	
	CHE 532	Industries	-		-	3	-
	CHE 552	Process Design III	2	3	-	3	CHE431, CHE531, CHE 441
		Reservoir Engineering		1	-		
		One Elective from:					
	CHE 562	(a) Technology of Inorganic Chemicals	2	1	-	3	-
		(b) Technology of Soap and Detergents.					
CHE 572	(c) Technology of Pulp and Paper	2	1	-	3	-	
	One Elective from the following						
CHE502	(a) Technology of Coal Processing			9	3	-	
	(b) Technology of Sugar Processing					GRE 501	
	(c) Technology of Clays Processing						
	Project						
<b>Total Credits</b>						<b>17</b>	

**500 LEVEL COURSE CONTENTS**

**CHE 511: PROCESS DYNAMICS AND CONTROL 4 Credits**

Process dynamics. Transfer functions. Frequency response analysis. Discrete events. Control System design, Stability. Cascade control, feed forward and feedback control. Introduction to multi-variable control. The control valve.

**CHE 521: PROCESS OPTIMIZATION**

**3 Credits**

Maxima of functions through the use of calculus. Unconstrained peak seeking methods. Single and multi-variable search techniques. Constrained optimization techniques. Linear programming. Numerical optimization techniques. Discrete events.

**CHE 531: PRINCIPLES OF CHEMICAL ENGINEERING PLANT DESIGN**

**2 Credits**

Sources of design data. Process charts and flow sheets. Equipment selection, specification and design. Mechanical design of process vessels and piping. Environmental consideration. Process services.

**CHE 541: SEPARATION PROCESSES III**

**3 credits**

Solvent extraction. Extractive and Azeotropic distillation. Multi component gas absorption. Distillation of multi-component gas mixtures. Novel separation processes.

**CHE 551: PETROLEUM REFINING PROCESSES**

**3 credits**

A typical refinery flow sheet overall refinery operations, terminology. Properties and types of crude oils. Effects of properties on refinery operations. Refinery products: motor fuels, heating oils, lubricating oils, petrochemical feedstock etc. Specifications on refinery products. Crude oil processing: desalting, atmospheric vacuum distillation. Processes for improving motor fuel yields: Reforming, catalytic cracking, hydro-cracking, alkylation, polymerization and isomerization. Calculation of product yield from these processes. Use of commercial software for calculation of yield from refinery processes. Product blending to meet specification: Octane and Cetane number, flash point and viscosity blending. Sulphur removal and recovery in refineries processing sour crudes. Water and air pollution control.

**CHE 561: CHEMICAL REACTION ENGINEERING III**

**3 credits**

Classification and types of reactions. Methods of operation and design equations for single and multiple reactions. Temperature and pressure effect. Fluid mixing and residence time distribution. Fixed and fluidized bed reactor design. Catalyst deactivation.

**ELA501: CHEMICAL ENGINEERING LABORATORY III**

**2 Credits**

Laboratory experiments in unit operations such as distillation.

**GRE501: ENGINEERING MANAGEMENT/LAW**

**3 Credits**

**The Management Environment** - Formation of a company, sources of finance, money and credit. Insurance. National policies, GNP growth rate and prediction. Balance of payments. Legal liabilities under company law, legal and contractual obligations to employees and the public, contractual obligations.

**Organizational Management** – Principles of organization, span of control. Elements of organization. Types. Principles of management. Schools of thought. Management by objectives.

**Financial Management** - Accounting methods. Financial statement. Elements of costing. Cost planning and control. Budget and budgetary control. Cost reduction programmes. Depreciation accounting, valuation of assets.

**Personnel Management** – Selection, recruitment and training. Job evaluation. Merit rating. Incentive schemes. Trade unions and collective bargaining.

**Industrial Psychology** – Individual and Group behaviour. The learning process. Motivation and Morale. Influence of the industrial Environment.

## SECOND SEMESTER

**CHE 512: LOSS PREVENTION IN THE PROCESS INDUSTRIES**  
**2 credits**

Hazards in chemical process industries. Safety in plants. Causes of accidents in process plants. Prevention of accidents. Hazop technique. Maintenance of plants to minimize losses. Waste disposal and effluent treatment. Pollution control. Legal implications of various losses.

**CHEMICAL ENGINEERING RESEARCH PROJECT** **6 Credits**

**CHE 532: PROCESS DESIGN III (Project)** **5 credits**

Students are divided into groups. Each group is assigned a chemical engineering design problem involving the study of a process. Each group is allowed two months to complete the design project. The project will involve the choice and preparation of process flow sheet, calculation of material and energy balances, equipment selection and specification, detailed design of some plant items, plant layout and instrumentation, economic analysis and safety considerations. A design report is required to be submitted by each individual student at the end of the two months period

**CHE 552: RESERVOIR ENGINEERING** **3 credits**

Petroleum geology. Petroleum exploration. Crude oil production. Pollution control. Natural gas production.

**CHE 591: POLYMER ENGINEERING II** **2 Credits**

Introduction of polymer and their characteristics. Sources of monomers. Structure and physical properties of polymer. Rheology, solubility and molecular weights. Plasticity and elasticity. The Williams-Landel-Ferry Equation.

Polymerization reactions and manufacturing methods. Ziegler-Natta catalysis. Processing and technology of polymers.

**CHE 562: ONE ELECTIVE FROM:** **3 credits**

1. Technology of Inorganic Chemicals
2. Technology of Soaps and Detergents
3. Technology of Pulp and Paper

**CHE 562A: TECHNOLOGY OF INORGANIC CHEMICALS** **3 credits**

Manufacture of soda ash. Manufacture of Chlorine and caustic soda. Unit operations chemical conversion. Sodium chloride and other sodium salts. Portland cement, Lime and gypsum. Sulphuric acid and Phosphoric acid.

**CHE 562B: TECHNOLOGY OF DETERGENTS** **3 credits**

Historical outline. Types of detergents. Mechanism of detergency. Oil and fats. Manufacture of soap base by direct saponification of oils and fats. Manufacture of fatty acids. Production of solid soap and soap powders. Manufacture of non-soap detergents.

**CHE 562C: TECHNOLOGY OF PULP AND PAPER****3 credits**

Properties of the raw materials. Preparation of pulp wood. Pulping processes. Energy recovery. Bleaching of pulps and stock preparation. Utilization of by products. Economics and ecological aspects of paper manufacture.

**CHE 572: ONE ELECTIVE FROM****3 credits**

- (a) Coal Processing Technology
- (b) Sugar Technology
- (c) Clay Processing Technology

**CHE 572A: COAL PROCESSING TECHNOLOGY****3 credits**

Introduction to coal formation. Physical and chemical properties of coal. Carbonization of coal. Combustion of coal. Gasification of coal. Liquefaction of coal. Environmental aspect of coal utilization.

**CHE 572B: SUGAR TECHNOLOGY****3 credits**

Description of the equipment and the consideration of the processes and operations involved in the manufacture of retained sugar from cane. Utilization of the by-products of the refining operation. Safety, economics and environmental consideration. Energy recovery.

**CHE 572C: CLAY PROCESSING TECHNOLOGY****3 credits**

Types of clays. Chemical conversion of clays. Ceramic products from clay. Structure of clay products. Refractoriness. Kilns for clay processing. Design of kilns. Ceramic composites. Ferro-electric and ferromagnetic ceramics. Porcelain. Energy saving in Furnaces.

**B. PETROLEUM ENGINEERING OPTION****300 LEVEL PETROLEUM ENGINEERING COURSES (OPTION)**

SEME- STER	COURSE CODE	COURSE TITLE	SPREAD			COURSE CREDIT	PRE- REQUISITES
			L	T	P		
First	EMA301	Engineering Mathematics	2	1	-	3	
	GRE331	Research methods and technical report writing					
	MEE351	Thermodynamics I	2	-	-	2	
	CVE311	Theory of Structures & Strength of Materials	2	1	-	3	
	PEE321	Rock and Fluid Properties	2	1	-	3	
	CHE361	Fluid Flow	2	-	-	3	
	PEE311	Basic Petroleum Engineering	2	1	-	3	
	CVE341	Engineering Geology I	2	1	-	3	
	PEE301	Petroleum Engineering Laboratory I	2	-	6	2	
		<b>First Semester Total Credits</b>				<b>24</b>	
Second	PEE322	Petroleum Geology	2	1	-	3	Engineering Geology I
	EMA302	Engineering Mathematics	3	1	-	4	
	PEE332	Drilling Fluid Technology	2	-	-	2	
	CHE351	Transport Phenomena	2	-	-	3	
	CVE342	Engineering Geology II	2	1	-	2	
	PEE342	Drilling Technology I	2	1	-	3	
	PEE352	Petroleum Production Engineering	2	1	-	3	
	PEE302	Petroleum Engineering Laboratory II	2	-	6	2	
		<b>Second Semester Total Credits</b>				<b>22</b>	

**300 LEVEL COURSE CONTENT****PEE301: Petroleum Engineering Laboratory I 2 Credits**  
(PVT/Core Analysis Laboratory)

Analysis of drill cutting: Determination of porosity, fluid saturations, capillary pressure, permeability, electric properties, effective permeability and relative permeability. Physical properties of petroleum and its product, gravity, viscosity, surface tension, thermodynamic behaviour of naturally occurring hydrocarbon mixture, differential and flash vapourisation tests at elevated pressure and temperatures.

**PEE311: Basic Petroleum Engineering 3 Credits**

Overview of energy demand and supply of crude oil and gas. Concept of Geology, importance of Geology in Exploration: Definition of traps, reservoir formations, etc. properties and occurrence of Petroleum, Basic Method of Drilling-Cable tool and Rotary Drilling Methods and equipment used. Introduction to other drilling methods; Elements of reservoir Engineering: properties of reservoir fluids. Oil and gas production – primary, secondary and tertiary methods. Oil and gas field processing and gathering.

**PEE321: Rock and Fluid Properties 3 Credits**

Composition and Porosity of reservoir, Darcy's Law and the concept of permeability and relative permeability, Capillary phenomena, Surface tension forces, Wettability, Compressibility and Static distribution of fluids. Electric conductivity, Behaviour of liquids, phase equilibrium, Viscosities of hydrocarbons, Use of fluid properties in Reservoir Engineering, Rock and fluid property correlations.

**GRE 331: Research Methods and Technical Report Writing (2 Credits)**

Principles of communication. Parts of technical reports: Abstract, introduction, Main body. Conclusions and Recommendations, Tables, Figures, Graphs, Illustration, References, Appendices. Writing the first draft. Revising the first draft: Content and structure. Audiences Scientific and Technical Prose: Spelling and Scientific Terminology using numbers and symbols.

Data: Statistical analysis of data and display. Software support for various writing and graphic tasks. Use of Microsoft power point.

Preparation of curricula vitae, research grant proposals, short talks and poster, and feasibility report. Writing a thesis. employed in marine environment.

**EMA 301: Engineering Mathematics III 3 Credits**

- (a) Linear Algebra:  $n$ -dimensional vectors, addition and scalar multiplication. Linear dependence and independence of set vectors. Matrices: operations of addition, scalar multiplication and product; determinants and their properties; sub-matrices and rank; inverse of a matrix. Theory of a system of linear equations, linear transformation and matrices; Eigenvalues and Eigenvectors of a matrix; Eigenvalues of Hermitian, skew Hermitian and unitary matrices; bilinear quadratic forms.
- (b) Analytic geometry: Plane polar coordinates, coordinate transformation. Solid geometry and spheres and quadric surface. Spherical polar and cylindrical polar coordinates.
- (c) Functions of several variables: Mean value theorem of function of several variables, maxima and minima, differentiation under the sign of integration. Jacobians.
- (d) Numerical Analysis: Numerical differentiation and quadrature formulae. Analytic and numerical solution of ordinary differential equations. Curve fitting and least squares. Further on linear programming (simplex method).

**EPS 321: Introduction to Entrepreneurship Studies****2 Credits**

Some of the ventures to be focused upon include the following:

1. Soap/ Detergent, Tooth brushes and tooth paste making
2. Photography
3. Brick, nails, screws making
4. Dyeing/ Textile blocks, paste making
5. Rope making
6. Plumbing
7. Vulcanizing
8. Brewing
9. Glassware production/ Ceramic, production
10. paper production
11. Water treatment/ Conditioning/ Packaging
12. Food processing/ Packaging/ Preservation
13. Metal working/ Fabrication- Steel aluminum door and windows
14. Training Industry
15. Vegetable oil/ Salt extractions
16. Fisheries/ Aquaculture
17. Refrigeration/ Air conditioning
18. Plastic making
19. Crop farming
20. Domestic Electrical wiring
21. Radio/ TV repairs
22. Carving
23. Weaving
24. Brick laying / making
25. Bakery
26. Tailoring
27. Iron Welding
28. Building drawing
29. Carpentry.
30. Leather tanning
31. Interior decoration
32. Printing
33. Animal husbandry (Poultry, pigry, goat, etc)
34. Metal craft: Blacksmith, Tinsmith, etc.
35. Sanitary wares
36. Vehicle maintenance
37. Book keeping.
38. Computer installation and repairs

**PEE302: Petroleum Engineering Laboratory II****2 Credits**

(Drilling Mud / Cement Laboratory)

Mud preparation and treatments, measurement of drilling and well completion fluid properties, Cements types, properties and testing, laboratory observations of reactions between drilling and workover fluids on formation, Rheology, filtration and relations between drilling functions and measur drilling mud and completion fluid properties.

**PEE322: Petroleum Geology****3 Credits**

Introduction, hypothesis of the origin of petroleum, source of rocks and organic, environments. Migration and accumulation. Properties of sedimentary rocks (texture, structure, composition). Reservoir traps – (definition, classification, physical properties, fluid saturation before oil and gas trapping). Surface geologic exploration (traces and shows of occurrence, seeds) as sampling stratigraphy, mineralogy, tectonics and petrology. Geo-physical methods (gravimetry, magnetometry, seismic and electro methods). Subsurface geology exploration (drilling, well logging geochemical methods). Map Elaboration: structural maps, cross inspection, profiles construction of different types of maps, use of plani-metor. Elaboration of basic and prognostic profiles of exploration and production wells. Elaboration of the resources and reserves. Evaluation of the reservoir oil and gas resources in the world. Petroleum geology of Nigeria.

**PEE332: Drilling Fluids Technology**

**3 Credits**

Types and functions of drilling fluids, drilling additives and chemical composition, drilling mud calculations, control of mud properties, clay mineralogy in Niger Delta formation, formation damage caused by drilling fluid and chemistry of reaction between fluid and formation, drilling mud performance evaluation, well completion fluids, uses and problems, other drilling fluids; Air, Foam etc.

**PEE342: Drilling Technology I**

**3 Credits**

Elements of rock mechanics, basic drilling methods; cable tool and rotary drilling methods, advantages and disadvantages, equipment and drilling techniques used in cable tool drilling, introduction to other drilling methods; rotary drilling practices for oils and gas wells; basic rotary rig components; their functions and selection, formation pressures – formation pressure prediction, fracture gradient prediction; drilling fluids – functions; properties and testing, types of drilling fluids and additives, drilling hydraulics; drilling cost analysis and control. Well completion and safety techniques used in drilling and completion operations, offshore drilling – storage and transportation problems, prediction of wind, wave and current forces, equipment

**PEE352: Petroleum Production Engineering**

**3 Credits**

Introduction to Petroleum Engineering: Subsurface and operation. Operational functions and output of subsurface production engineer. Nodal analysis-Inflow and outflow performances: governing equations, inflow performance relationship (IPR) Productivity index (PI), formation damage, fines migration and skin effect, vertical lift, wellhead equipment performance and pressure losses stroke performance. Problem wells analysis: sand, water, hydrate scale, unstable flow, surge, waxy crude production, etc. Well surveillance. Well stimulation: Fracturing and acidizing introduction to artificial lift methods: Gas lift and pumping systems

**EMA302: Engineering Mathematics IV**

**3 Credits**

- (a) Fourier Series: Periodic functions. Euler formula for coefficients in Fourier sine/cosine series of a function. Even and odd functions and their Fourier series. Half range expansion. Theoretical basis of Fourier series. Application to the solution of partial differential equations.
- (b) Gamma, Beta and probability function (emphasis rather on the applications).
- (c) Differential Equation: Equations of the form  $y'' = f(x, y')$ . Linear second order equations reducible to linear equation with constant coefficients. Series solution of differential equation and Bessel functions of first kind; their properties and introduction to applications.
- (d) Vector Field Theory: Scalar and Vector fields: directional derivative; gradient of a scalar field, divergence and curl of a vector field; del operator. Line, surface and volume integrals. Divergence theorem of Gauss and Stoke's theorem. Green's theorem. Line integrals independent of path and irrotational vector fields.



#### 400 LEVEL PETROLEUM ENGINEERING COURSES (OPTION)

SEME- STER	COURSE CODE	COURSE TITLE	SPREAD			COURSE CREDIT	PRE- REQUISITES
			L	T	P		
First	PEE431	Well Test Analysis	2	-	-	2	EMA381 Physical/Organic Drilling Tech. I  Petroleum Geology
	EMA401	Engineering Mathematics	2	1	-	3	
	CHE441	Petroleum Refining Processes	2	1	-	3	
	PEE411	Drilling Technology II	2	1	-	3	
	PEE461	Reservoir Engineering I	2	1	-	3	
	PEE451	Well Logging	2	1	-	3	
	PEE471	Oil and Gas Production I	2	1	-	3	
	PEE401	Petroleum Engineering Laboratory III	-	-	6	2	
	CHE481	Computer Applications in Petroleum Engineering	2	-	6	2	
		<b>First Semester Total Credits</b>				<b>24</b>	
Second	IUITS402	Igbinedion University Industrial Training Scheme				<b>6</b>	

#### 400 LEVEL COURSE CONTENTS

##### **PEE401: Petroleum Engineering Laboratory ii**

**2 Credits**

Rheological measurements: Waxy and non – Waxy Crude; Flow metering of liquids and gas; Determination of meter accuracy. Uses and Operations of various pressure regulators; Pressure loss measurement along pipes. Determination of friction factors; Bottom hole pressure determination; Oilfield quality control; Oilfield chemical tests; setting-up of Project laboratory. Pre-requisite PEE301, PEE302, CHEE352, CHHE 361

##### **PEE411: Drilling Technology II**

**3 Credits**

Formation damage, lost circulation, stuck pipe. Fishing operations, causes, control and prevention; well control-causes and detection of kicks, well control procedures, kill calculations. Blow-out (causes, control and prevention including equipment used).

Properties of cement/additives, primary cementing operations including hole and pipe preparation, equipment (surface and downhole) used in primary cement in operation, operational techniques and evaluation, squeeze cementing open-hole and easing plugs, etc. work-over operations, introductions, introduction, workover techniques (perforating, depth center). Squeeze cementing: well stimulation: sand control, directional drilling optimization of drilling operations; drilling in Niger Delta.

##### **PEE431: Well Testing**

**2 Credits**

Review of fundamental flow equations. Pressure Build-up Analysis. Former method of solution either methods, type of curve analysis: Fluid property approximations; calculation of average pressure, method of superposition, test design.

Pressure Drawdown Analysis: (Conventional methods: reservoir limits test, type of curves, test design). Multi-rate Testing: (analysis with pressure and P. pseudo-pressure method, deliverability testing, reservoir limits test). Fractured Reservoirs: Flow behaviour, fracture detection: conventional evaluation; type of curves, Injection Well Testing: (Fall of analysis, injectivity test, step rate test).

Testing Methods: drill stem testing, interference testing. Pulse testing: pulse testing, SFT, Other equivalent.

**PEE451: Well Logging**

**3 Credits**

Fundamentals resistivity of formation water. Mud-lud-cake and mud-filtrate resistivity. Formation factor, porosity and lithology; formation resistivity saturation. Resistivity and fluid distribution, apparent resistivity, the spontaneous potential log, conventional resistivity logging, induction logging, laterolog, microlog, microlaterolog. Use and interpretation of electric log (bed detection and definition correlation, investigation of porosity, investigation of fluid content, quantitative interpretation. Side wall sampling: radioactivity well logging (basic principles, summary well logging, neutron well logging, interpretation of radioactivity logs, identification of borehole effects, interpretation of radioactivity logs, identification of borehole effects, formation identification, radioactivity well log application (engineering and production studies, traces, evaluation studies, geological studies, special radioactivity well logs). Miscellaneous well logs (drill-time log, geologic-sample log hydrocarbon mud log, directional log, diameter logs, caliper log, temperature log, acoustic-velocity log, collar-located log).

**PEE461: Reservoir Engineering I**

**3 Credits**

Introduction to petroleum reservoir engineering, physical properties of rocks and fluids (porosity, permeability of active and relative permeabilities, specific surface of rocks, compressibilities of rock and fluids, fluid saturation, wettability, surface tension, capillary forces, etc. fluid flow through porous media, application of Darcy's Law. Reservoir drives and rates. Hydrocarbon content of reservoirs, its composition, formation. Water and its physical properties. Gas behaviour binary and multi-component systems. Equilibrium constant and its application. Sampling for PVT analysis, other methods of determining reservoir fluid properties; evaluation and interpretation.

**PEE471: Oil and Gas Production Technology I**

**3 Credits**

Completion of oil and gas wells: Single and multiple completion open holes, perforation methods, interval selection, productivity consideration, well head and bottom hole equipment: check and starting up of oil and gas wells. Well surveillance-diagnosis, well-bore damage (drawdown and build-up; production logging.)

Critical completion conditions – Signing of tubular goods. Forum on tubing and packers (anchored and unanchored tubing, helical buckling).

Wire-line operations: Workover techniques – perforating, depth control, squeeze cementing, well treatments (acidizing, fracturing sand control). Workover Rigs – tools and equipment; well safety equipment.

Fundamentals of Vertical Flow for Multiphase – system (Krislovis Postman and Carpenter, Gilbert's Ros's and other theories). Single and two phase flow through a choke. Flowing oil wells. Types and control of flowing wells.

**CHE 481: Computer Applications in Petroleum Engineering II** **2 Credits**

Solution of chemical engineering problems using computer packages. User defined functions and other advanced calculation options in Microsoft excel. Optimization of chemical processes using excel. Process simulation using commercial computer package (ChemCADHysys etc). Introduction to AutoCAD: Menu, toolbars, short-cut menu, drawing aids. Object creation and modification. Computer aided drawing of process equipment, flow diagrams and process instrument diagrams. Introduction to programming in C++, Neural Networks

**EMA401: Engineering Mathematics IV Elective** **2 Credits**

Complex variables – advanced topics; differentiation and integration of complex functions. Cauchy-Riemann equations: Related theorems. Laplace and Fourier transforms – applications.. Probability –

Elements of probability, density and distribution functions, moments, standard distribution, e.t.c. Statistics – Regression and correlation – Large sampling theory. Test, hypothesis and quality control.

**CHE 441: Petroleum Refining Processes**

**3 credits**

A typical refinery flow sheet overall refinery operations, terminology. Properties and types of crude oils. Effects of properties on refinery operations. Refinery products: motor fuels, heating oils, lubricating oils, petrochemical feedstock etc. Specifications on refinery products. Crude oil processing: desalting, atmospheric vacuum distillation. Processes for improving motor fuel yields: Reforming, catalytic cracking, hydro-cracking, alkylation, polymerization and isomerization. Calculation of product yield from these processes. Use of commercial software for calculation of yield from refinery processes. Product blending to meet specification: Octane and Cetane number, flash point and viscosity blending. Sulphur removal and recovery in refineries processing sour crudes. Water and air pollution control.

**500 LEVEL PETROLEUM ENGINEERING COURSES**

SEME- STER	COURSE CODE	COURSE TITLE	SPREAD			COURSE CREDIT	PRE- REQUISITES
			L	T	P		
First	PEE551	Petroleum Economics	2	1	-	3	PEE461
	PEE561	Reservoir Engineering II	2	1	-	3	
	PEE571	Oil and Gas Production II	2	1	-	3	
	PEE531	Oil Field Development I	2	1	-	3	
	PEE581	Natural Gas Engineering	2	1	-	3	
	PEE591	Numerical Methods	2	1	-	3	
	PEE593	Enhanced Recovery Processes	2	1	-	3	
	GRE501	<b>Engineering Management</b>	2	-	-	2	
	PEE500	Project			9	3	
		<b>First Semester Total Credits</b>				<b>23</b>	
Second	PEE572	Oil and Gas Production III	2	1	-	3	PEE561
	PEE582	Natural Gas Processing	2	1	-	3	
	PEE562	Reservoir Engineering III	2	1	-	3	
	PEE572	Industrial Safety And Pollution	2	1	-	3	
	PEE532	Control	2	1	-	3	
	PEE592	Oil Field Development II	2	1	-	3	
	PRE594	Elements of Reservoir Simulation	2	1	-	3	
	PEE500	Offshore Technology	-	-	9	3	
		<b>Second Semester Total Credits</b>				<b>24</b>	
		<b>Total Credits</b>				<b>47</b>	

**500 LEVEL COURSE CONTENT**

**PEE531: Oil Field Development I**

**3 Credits**

Decision methods and yardsticks. Petroleum evaluations. Introducing uncertainty in evaluation. Return on investment: interest and inflation. Discounted cash flow; average annual rate of return method, average book rate of return method. Hoskolds methods. Applications of probability distributions, binomial and normal distribution are occurrences and services requirements. Multiple kinds of objects and economic outcomes. Mineral deposits and resources. Appraisal of uncertain ventures; statistical appraisal method for several ventures. Value of additional information Gambler’s ruin by successive losses. Decision Trees and Economic models: Analysis of a probability tree. Comparing alternatives: retaining partial

working interest versus overriding royal interest. Evaluating acceptance of a farm-out. Stochastic decision trees, forecasting and planning.

**PEE551: Petroleum Economics**

**3 Credits**

Application of reservoir engineering principles and economics to the evaluation of oil and gas properties. Application of probability and statistics to the evaluation of oil and gas venture. Application of decision trees and probability trees to simplify evaluation of oil and gas ventures. Estimation of future production of oil and gas by performance trends. Bayes strategies to estimate value of oil and gas properties. Application of simulation in the evaluation of oil and gas properties. Oil and gas property management.

**PEE561: Reservoir Engineering II**

**3 Credits**

Differential equation for fluid flow through porous media. Estimation of oil and gas in place, recoverable reserves by different methods: categorization of reserves. Derivation of material balance equation and production performance or different types of reservoirs such as solution gas drive, water drive, gas cap drive, etc; water influx calculation, reservoir models. Statistics and interpretation of production rate (production of oil, water and gas, GOR, porosity, permeability)

**PEE571: Oil and Gas Production Technology II**

**3 Credits**

Introduction (gas lift method. Sucker-rod pumping, rodless pumping), Gas Lift-Basic concept (continuous flow gas lift, intermittent gas lift plunger lift). Selecting optimum tubing size and design of tubing string fluid rate of oil and minimum gas requirement: oil flow rate and given as assumption. Maximum feasible liquid production). Gas-lift valves and the sizes). Injection gas supply, plunger lift.

Bottom-Hole Pump Production: Packer-rod pumps (well hand, surface and sub-surface equipment). Rod ring, rod load, string design, effective plunger stroke, buckling of tubing. Operating points (production capacity, volumetric efficiency, maximum liquid production, minimum polished head. Pumping units; rodless bottom hole pumps (hydraulic pumps, electric centrifugal pumps and other types). Automatic controls and interpretation of data. Production economics – optimum economical operation techniques and optimum sizes of production equipment in the case of flowing production, and artificial lift production. Choice of most economic production methods.

**PEE581: Natural Gas Engineering**

**3 Credits**

Composition of natural gas. The natural gas industry; the natural gas well; well head equipment and gathering systems. Flow of natural gas. Field compression. Static and flowing bottom hole pressures calculations. Distribution of natural gas; pipeline equations for distributions at high and low pressures. Modifications of old transmission lines; looping and paralleling. Storage capacity of pipelines. Gas flow measurements. Dynamic and volumetric meters. Critical flow proffers. What-hydrocation system; Dehydration and sweetening of natural gas. Gas hydrates. Gas pressure regulation. Underground storage of natural gas.

**GRE501: Engineering Management I**

**2 Credits**

**The Management Environment** - Formation of a company, sources of finance, money and credit. Insurance. National policies, GNP growth rate and prediction. Balance of payments. Legal liabilities under company law, legal and contractual obligations to employees and the public, contractual obligations.

**Organizational Management** – Principles of organization, span of control. Elements of organization. Types. Principles of management. Schools of thought. Management by objectives.

**Financial Management** - Accounting methods. Financial statement. Elements of costing.

Cost planning and control. Budget and budgetary control. Cost reduction programmes.

Depreciation accounting, valuation of assets.

**Personnel Management** – Selection, recruitment and training. Job evaluation. Merit rating. Incentive schemes. Trade unions and collective bargaining.

**Industrial Psychology** – Individual and Group behaviour. The learning process. Motivation and Morale. Influence of the industrial Environment

**PEE591: Numerical Methods**

**3 Credits**

Review of FORTRAN programming. Solution of Petroleum Engineering problems using computer. Interpolation with equal and unequal base points. Reading of capillary pressure, relative permeability graphs. Trial and error methods of computation: phase composition and mole fractions in separation processes, internal rate of return. The Newton-Raphson method. Numerical integration: carpenter and Poettman equations. Systems of linear equations; direct and some interactive methods of solution. Solution of ordinary differential equations encountered in fluid flow in pipes boundary conditions.

**PEE593: Enhanced Oil Recovery Processes**

**3 Credits**

Principles of displacement: review of rock properties, reservoir fluid properties, phase behaviour, displacement efficiencies; Gas methods: miscible slug, enriched gas, high pressure lean gas carbon dioxide, nitrogen and other inerts; Chemical methods; micellarpolymer, polymer augmented water-flood, permeability alteration, etc.

Thermal methods: steam stimulation, steam drive, in-situ combustion; foam injection; economic factors, cost of equipment and operation, risk, etc.

**PEE532: Oil Field Development II**

**3 Credits**

Evaluation of expected discoveries in mature regions. Expected discoveries estimated by area of producing fluids. Expected discoveries estimated by total exploratory fretage. Bayes strategies and estimated by total of value. Bayes probability methods. The maximum likelihood method. Bayes strategies. Choosing decision rules in petroleum exploration. Estimation of regional maps and drilling decisions. Cost of error functions. Control of operations; CPM and PEXT Methods. Evaluation of future production by performance trends: decline curves, theoretical relations. Simulation – the Monts Carlo method. Evaluation of future prediction by performance trends: decline curves, theoretical relations. Simulation – the Monte Carlo method.

**PEE 552: Industrial Safety and Pollution control**

**3 Credits**

The operating environment; development of industrial safety, scope and magnitude of the problem; Safety regulations .Burning of gases. Mechanisms of flame propagation. Fire and explosion, limits of flammability. Toxicity and toxicology. Labeling and identification of hazardous materials, storage facilities industrial fire protection. Causes of oil pollution: blowout, pipeline and pipeline and flowline leakages, sour gas production, sea transportation hazards, need for oil spill prevention and control: Mechanical, chemical and biological Global pollution problems: Government regulations and contingency plans. Clean Nigerian/Association (CAN) and other interested bodies.

**PEE562: Reservoir Engineering III**

**3 Credits**

Oil Field development, Gas field development (Volumetric, water drive, gas-condensate reservoir); introduction to additional and secondary recovery and its division, different methods, mobility ratio, basic flooding networks used in industry, effect of mobility, sweep efficiency, etc. injection rate and pressures in secondary recovery. Water source and its treatment, water flooding calculations using different methods – spacing and row of the wells. Immiscible and miscible displacement processes: polymer flooding, thermal recovery method. Economics of the oil and gas reservoir. Evaluation and feasibility studies.

**PEE572: Oil and Gas Production III****3 Credits**

Review of well heads and X-mass tree. Types of valves and pressure regulators. Separation of oil and gas – basic Mechanical equilibrium calculations. Factors affecting separator performance (pressure, temperature, stage separation composition). Types of separators, (spherical, vertical, horizontal) cyclones. 3-phase automatic, etc). Selection of separator type, Oil storage tanks and gauges, Oil and gas gathering systems, transportation of oil isothermal and non-isothermal flow, Calculation of head loss for the steady state flow of a Newton Oil (Cheraikin's Theory and Ford's Theory). Start-up pressure of oils. Improvement of flow characteristics.

What-hydrocarbon system; Dehydration and sweetening of natural gas. Gas hydrates. Gas pressure regulation. Underground storage of natural gas.

**PEE582: Natural Gas Processing****3 Credits**

Phase behaviour of natural gas systems; retrograde phenomena in natural gas mixtures; binary mixtures. Vapourization – equilibrium constants. Bubble point and dew point determination. Field processing: flash calculation; stage separation. Water hydrocarbon system; water content, steam distillation, fractional distillation, binary distillation, multi-component distillation. Absorption and adsorption; removal of H<sub>2</sub>S and CO<sub>2</sub> from natural gas. Gas plant design, LPG and LNG systems.

**PEE592: Elements of Reservoir Simulation****3 Credits**

Types of reservoir models. History matching and performance prediction. Formation of partial differential equations of reservoir fluid flow. Initial and boundary conditions. Infinite and bounded reservoirs. Finite difference formulation of equations. Numerical models for solution of finite difference approximation. Study will include single and multiphase flows; one dimensional and two dimensional simulation.

**PEE 594: Offshore Technology****3 Credits**

Type of offshore drilling rigs; the operational environment – stability and motion, prediction of wind, wave and current forces, spread mooring systems, dynamic positioning of floating vessels. Offshore drilling rig equipment – floor equipment, motion compensation and marine riser systems, subsea well head, guide base and BOP systems; drilling operation sequence in offshore environment; offshore well control operations, subsea well completions, subsea production systems.

**GRE 502: Engineering Management II****3 Credits**

**Resource Management:** Materials management. Purchasing methods. Contracts. Stores and Inventory Control. Resource Utilization. Time value of money. Interest formulae. Rate of return. Methods of economic evaluation. Selection between alternatives. Planning Decision-making Forecasting, Planning, Scheduling. Production control. Gantt Chart C. P. M. and PERT.

Optimization. Linear programming as an aid to decision-making. Elementary treatment of decision-making policies under risks and uncertainties.

Transport and Materials Handling Selection of transport media for finished goods, raw materials and equipment. Facility layout and location. Work study and production processes.

Basic principles of work study. Principles of motion economy. Ergonomics in the design of equipment and processes. Introduction to Computer Softwares used in Management.

### **FORWARD BY THE DEAN**

This new prospectus for Undergraduate Programme set out in detail information on the structure of the College of Engineering and includes extracts from the University Regulations Governing First Degree Programmes.

The prospectus also contains information on the history, aims and objectives, course description in respect of the College and the Department of Civil Engineering and other relevant matters.

From 2002/2003 Session, the College had been offering degree programmes in four major disciplines, namely:

**Chemical and Petroleum Engineering  
Civil Engineering  
Electrical/Electronics and Computer Engineering  
Mechanical Engineering**

All the programmes are fully accredited by both NUC and COREN.

The new prospectus which has been reviewed according to NUC BMAS shall be of great value to students of Civil Engineering and staff of the College and other persons who may wish to obtain information on the academic programmes in the civil engineering department in particular and the College of Engineering in general.

**Prof. P. B. Osofisan, FNSE  
Dean Gen. A. A. College of Engineering**

**1. INTRODUCTION BY THE HEAD OF CIVIL ENGINEERING DEPARTMENT**



*The Department of Civil Engineering programme which began in September, 2002 (2002 / 2003 session) with an initial student intake of about 15, currently has student population of over 100 in the 2015 / 2016 session. Secondly, the initial staff strength of two (2) has considerably increased. The Department has eight (8) members of staff. five (5) are full-time teaching staff; three (3) are part-time lecturers; and one (1) is a technologist.*

*The present full time staff-student ratio is estimated at 1: 10 and meets the NUC and COREN recommendations.*

*The Department has produced a total number of graduates of 190 (with B. Eng. Degree) from 2006 / 07 when it graduated the pioneer set to 2015 / 2016. Many of them are working in reputable engineering companies. And quite a good number is doing their graduate studies overseas.*

The Department is making moderate, but steady and consistent developmental progress.

The Department is now equipped with basic facilities, namely: office furniture and facilities; classrooms; lecture halls; laboratory/workshop; libraries; IT and Internet facilities, etc.

The University is steadily providing more laboratory / workshop facilities, especially, in the following areas of specialization of the department: Water Resources / Environmental; Structures; Materials; Geo-technics; Survey and Geo- informatics and Transportation and Highway Engineering; etc.

The Central Library has many civil engineering books and journals. Besides, civil engineering students are very computer literate and exposed to IT and Internet facilities.

The students also do their industrial training in reputable engineering based establishments.

The staff seriously engage in various developmental and capacity building efforts.

They attend and participate in engineering seminars, conferences; publish articles and undertake graduate studies (M. Eng. and PhD programs).

The Department is very proud of Mr. Thomas Oluwafemi Olumide, who became the first student to make **first class honours** (with CGPA of **4.69**) in the Department of Civil Engineering in July, 2013.

Besides the Department had produced three (3) other first class honours in 2014.

With effect from 2010/2011 academic session, all existing courses (100 - 500 levels) have been revised and updated in compliance with NUC Benchmark Minimum Academic Standards (BMAS). Particularly, EPS 223: Introduction to Entrepreneurial Skills (2 credit units and a 200 level second semester course) and EPS 311: Introduction to Entrepreneurship Studies (2 credit units and a 300 level first semester course) were introduced. The new academic curriculum according to BMAS commenced in 2010/2011 academic session.

The Civil Engineering Department got full NUC Accreditation in November, 2007 and March 2013.

The Department also got full COREN Accreditation in July, 2009.

The Department had NUC Accreditation visitation in November, 2014 and hopes to secure accreditation.

To sum up, the Department has become a huge success

There are more ongoing developmental programmes aimed at realizing our objectives.

This edition of "Handbook for Undergraduate Programmes" sets out in detail information on the structure of the Department of Civil Engineering and includes extracts from the University Regulations Governing First Degree Programmes.

The handbook also contains information on the History, aims and objectives, course description in respect of college and department of civil Engineering and other relevant matters.

This handbook shall be of great value to students and staff of Civil Engineering of the Civil Engineering Department and other persons who may wish to obtain information on the academic programmes of the Department.

Engr. (Mrs.) Maryann O. Ezugwu, MNSE  
Ag.HOD; Civil Engineering Department  
18<sup>th</sup> February, 2016.

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**2.1. Brief Background of the Civil Engineering Department**

*The Department of Civil Engineering programme which began in September, 2002 (2002 / 2003 session) with an initial student intake of about 15, currently has student population of over 88 in the current 2015 / 2016 session. Secondly, the initial staff strength of two (2) has considerably increased. The Department has twelve (12) members of staff. Eight(8) are full-time teaching staff; two (2) are part-time teaching staff and two (2) are non-teaching staff. The present staff-student ratio is estimated at 1: 10, which is in line with NUC recommendation. Many full time staff would be joining the Department soon.*

**Departmental Population 2002 /2003 - 2015 / 2016 Academic Sessions**

Academic Year	LEVELS					Full – Time Enrolment
	100 Level	200 Level	300 Level	400 Level	500 Level	Total
2002 / 2003	15	-	-	-	-	15
2003 / 2004	34	9	-	-	-	43
2004 / 2005	15	32	8	-	-	55
2005 / 2006	20	12	22	8	-	62
2006 / 2007	10	17	8	18	7	60
2007 / 2008	16	12	08	05	18	59
2008 / 2009	26	10	08	06	07	57
2009 / 2010	32	24	04	07	04	71
2010 / 2011	17	38	23	03	07	94
2011 / 2012	21	20	38	22	04	107
2012 / 2013	10	14	20	30	21	95
2013 / 2014	19	16	17	17	31	100
2014 / 2015	15	20	20	18	20	93
2015 / 2016	15	15	20	18	20	88

**2.1.1. Staff Strength**

The department has a highly experienced team of academic, technical and administrative staff with cognate experience. The staff strength is now twelve (12);out of which, ten (10) teaching staff, two (2)are technologists.

**2.1. 2. Staff – Student Ratio**

The current staff – student ratio for the department is approximately 1: 10.

**2.1.3. Graduated Students**

The department has graduated her first (pioneer) set of students in session 2006 / 2007. Sixty six (66) students have since graduated from the department (summarized below).And thirty (30) would expectedly graduate this year. Majority of the graduated students, upon completion of their NYSC, are doing their post graduate studies in Europe and USA, while others have got good job in reputable companies. Some graduates are very patriotic and would like to make donations (especially needed facilities) to the department.

<b>Academic Session</b>	<b>No. of graduates</b>
2006 / 2007	6
2007 / 2008	6
2008 / 2009	18
2009 / 2010	6
2010 / 2011	6
2011 / 2012	4
2012 / 2013	<b>20</b>
2013 / 2014	<b>26</b>
2014 / 2015	<b>16</b>
<b>Total</b>	<b>108</b>

#### 2.1.4. The Distribution of the Various Classes of Degrees are as Follows:

<b>Class of Degree</b>	<b>No. of Graduates</b>
1 <sup>st</sup> Class	4
2 <sup>nd</sup> Class Upper	45
2 <sup>nd</sup> Class Lower	54
3 <sup>rd</sup> Class	04
Pass	1
<b>Total</b>	<b>108</b>

#### 2.1.5. Departmental Staff

The departmental Staff (full- time lecturers; associate lecturers and technologists) are as given below:

##### 2.1.5.1. Full-Time Staff

S/N	Name of Staff	Rank/Designation	Status	Qualifications, Specialisation, Membership of Professional Association
1.	Prof. B. U. Anyata	Professor	Adjunct	B.Sc, M.Sc, Ph.D
2.	Engr. (Mrs.) Maryann Ezugwu	Lecturer I/HOD	F/time	B.Eng (Civil) M. Eng.; MNSE; COREN R. 24,944
3.	EngrAvemaria Matthew Eze	Senior Lecturer	F/Time	B.Eng.(Civil Eng) M.Eng MNSE, Registered Engineer (COREN;R.7590)
4.	Dr. NwankwoEbuka	Associate Senior Lecturer	P/Time	B.ENG, M.Eng, Ph.D; COREN R.20175
5.	Dr (Mrs.) J. C. Aboloje	Senior Lecturer	F/Time	B.Sc, M.Sc, Ph.D; MNSE COREN R.11931
6.	Dr. Emmanuel O. Eze	Assoc. Prof.	P/Time	B.Sc, M.Sc, Ph.D; Reg. Geologist
7.	Dr. H.A.P.Audu	Senior Lecturer	P/Time	B.Sc, M.Sc, Ph.D; Reg. Surveyor

8.	Engr. AtikpoEguakhide	Lecturer 1	F/Time	B. Eng. (Civil Eng.); M.Eng; MNSE COREN R.24,516
9.	Engr. Lucky Umukoro	Lecturer 11	F/T	B.Eng. (Civil Eng) M.Eng; MNSE; COREN R. 22,091
10.	Engr. (Mrs.) NgoziKayode-Ojo	Lecturer I	F/time	B.Eng (Civil) M. Eng (Geotech). COREN R.8708
11.	Engr. Endurance Obroku	Lecturer II	F/T	B.Eng. (Civil Eng.); First Class; M.Eng; MNSE; COREN Registered.
12.	Mr. Ijehlfeanyi Purity	Lecturer II	F/T	B.Eng. (Civil Eng.); First Class; M. Eng.

### 2.1.5.2. Technical Staff

S/N	Name of Staff	Rank/Designation	Status	Qualifications, Specialization, Membership of Professional Association
11.	Mr.OsaroEfosaOgbewe	Technologist 1	F/Time	HND(Civil)
12.	Mr. William Osiboko	Technologist 1	F/Time	HND(Civil)

### 2.1.5.3. External Examiner

S/N	Name of Staff	Rank/Designation	Status	Qualifications, Specialisation, Membership of Professional Association
1.	Engr. Prof. O. C. Izinyon	Professor of Civil Engineering	External Examiner	B.Eng. (Civil Eng) M.Eng ); Ph.D; MNSE, COREN Registered

### 2.1.6. Staff Development (and Capacity Building)

Igbinedion University, Okada encourage and promote staff development; and capacity building of its staff; such as pursuing PhD programs (in line with the NUC directive) either in the or elsewhere. Different conditions exist for those who have their tuition and other fees paid for by the University. In principle, Igbinedion University, Okada has the policy for paying reduced subsidized or reduced tuition for the employee staff. The University further plans to sponsor further education of its staff abroad, with the affordable financial constraint of a private initiative.

All the lecturers in the department are doing their post graduate studies: Four are currently doing their PhD; and one is doing M.Sc. They are encouraged and motivated by the University. The University plans more incentive package for them.

#### 2.1.6.1. University Sponsorship for Continuing Professional Development

The engineering personnel who are registered with COREN, are sponsored by the university to attend both the NSE AGM and COREN National Assemblies, which are part of Continuing Professional; Staff Development (CPD) Scheme.

Attendances to COREN National Assemblies; NSE AGM; Engineering Conferences, etc (under the University sponsorship), have particularly boosted the Continuing Professional Development (CPD) scheme credentials of the staff beneficiaries.

List of Civil Engineering Departmental Staff who have gained from the University sponsorship to attend and participate in various past COREN National Assembly; NSE AGM and Engineering Conferences, etc is given below.

**2.1.6.2. List of Department of Civil Engineering Personnel who had been Sponsored to Attend COREN National Assembly; NSE AGM and Engineering Conferences:**

S/No	Names of the Lecturers	COREN National Assembly; NSE AGM and Engineering Conferences Attended	Period / Place
1.	Engr. AvemariaMatthewEze, MNSE	14 <sup>th</sup> ; CORENNationalAssemblies	Abuja 2005;2009
		18 <sup>th</sup> CORENNationalAssembly	2008; Abuja
		20 <sup>th</sup> CORENNationalAssembly	2010; Enugu
		NSE Annual Conference/AGM	2006; Warri
		International Engineering Conference	2009; UNIBEN
2.	Prof. Joseph B. Adeyeri, MNSE	14 <sup>th</sup> CORENNationalAssembly	2005; Abuja
3.	Engr. Dr. Felix O. Oginni, Adeyeri, MNSE	14 <sup>th</sup> CORENNationalAssembly	2005; Abuja

**2.1.6.3. Staff Contribution to Engineering and Industry**

Some senior engineering personnel have worked in many engineering based establishments. They have practiced civil engineering to a very high level such as supervision of World sponsored projects and ADB assisted projects.

And they have also gained extensive and wide experience in civil engineering practice. The senior registered engineers are consultants to some companies.

Many departmental staff members have published papers, in engineering journals or made contributions in other engineering works. as well as presented papers in seminars and engineering conferences.

Some have also participated in trade fair exhibitions where some models developed in the department are exhibited.

The engineering staff who are registered with COREN, are sponsored by the university to attend both the NSE AGM and COREN National Assemblies, which are part of Continuing Professional; Staff Development (CPD) Scheme.

All these achievements and credentials are contained in the Curriculum Vitae of the key engineering personnel (kept in their office file).

**2.1.6.4. In-house Training**

This is ongoing for staff and students in the areas of application software, design pro, AUTOCAD, proton Hysusetc to enhance ICT capacity, CAD/CAM applications, Also training is undertaken for special process equipment and others housed in the college workshop/laboratories.

### **2.1.7. Self Empowerment Programme**

Students are also exposed to the concept of entrepreneurship with a view to self employment. Sources of finance for a business venture, appraisal of customers and the keeping of proper accounting records are among the topics discussed.

### **2.1.8. NUC and COREN Accreditations of the Civil Engineering Department**

The Civil Engineering Department is one of the departments that got full NUC accreditation in November, 2007. It was equally among the departments that got full COREN Accreditation July, 2009.

### **2.1.9. Administration in General of College of Engineering / and in the Department of Civil**

#### **2.1.9.1. Personnel Administration:**

- (a) The Department has ten (10) members of staff. Five (5) are full-time, four (4) are associate and one (1) is non-teaching staff.
- (b) Decision-making is usually collective; taken at the Departmental Board of Studies meeting.
- (c) Staff are given the opportunity to study for higher degree at full/part-time.
- (d) Staff are promoted after three years if they are productive (Publications).

#### **2.1.9.2. Student's Welfare:**

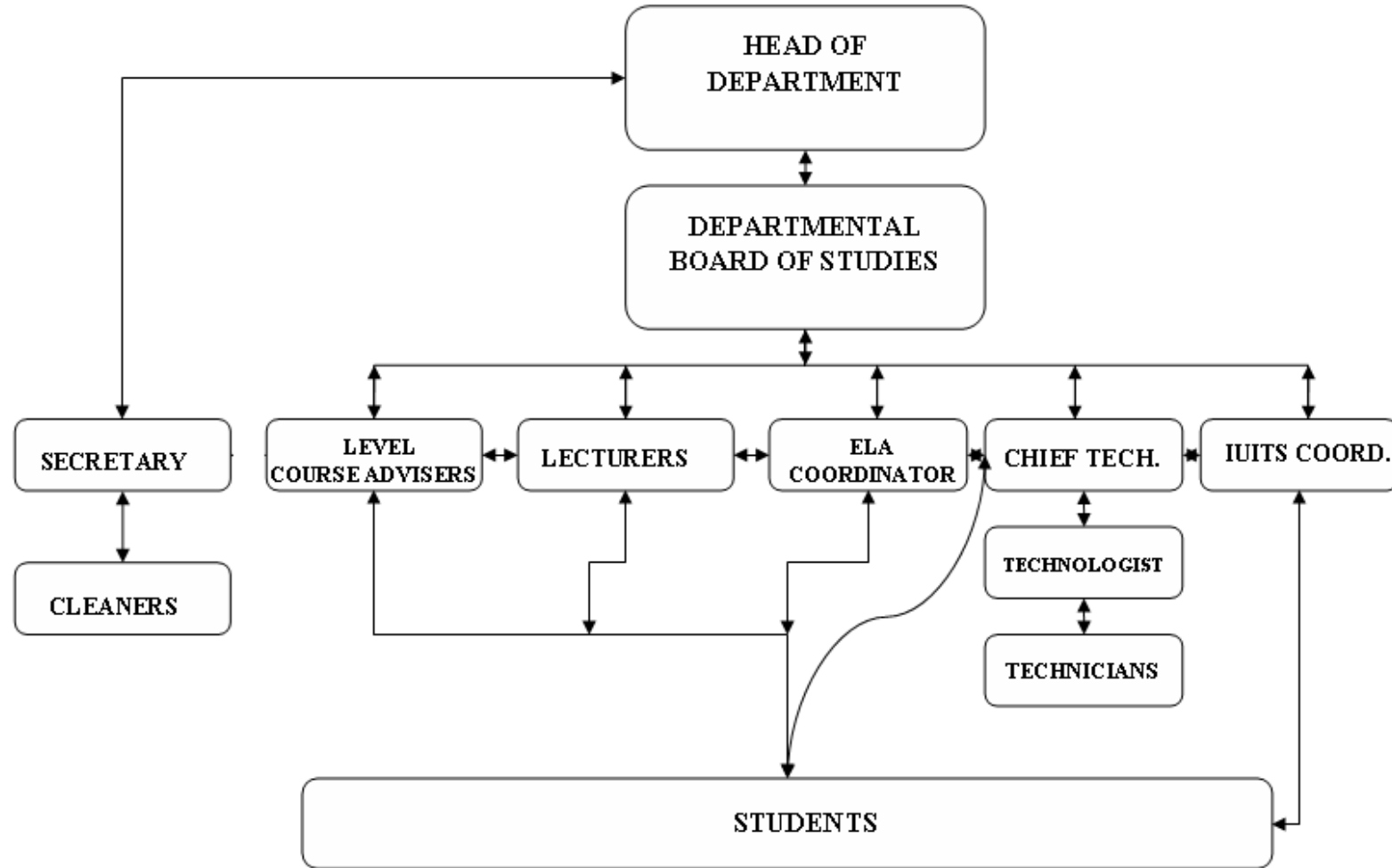
- (a) Academic grievances are handled by the Head of Department and the appropriate level adviser.
- (b) Each level adviser provides counsel and advice on courses offered.

#### **2.1.9.3. Academic Atmosphere:**

- (a) The department encourages students to dress in a corporate manner while attending lectures.
- (c) Students are encouraged to use the library facilities during free period.

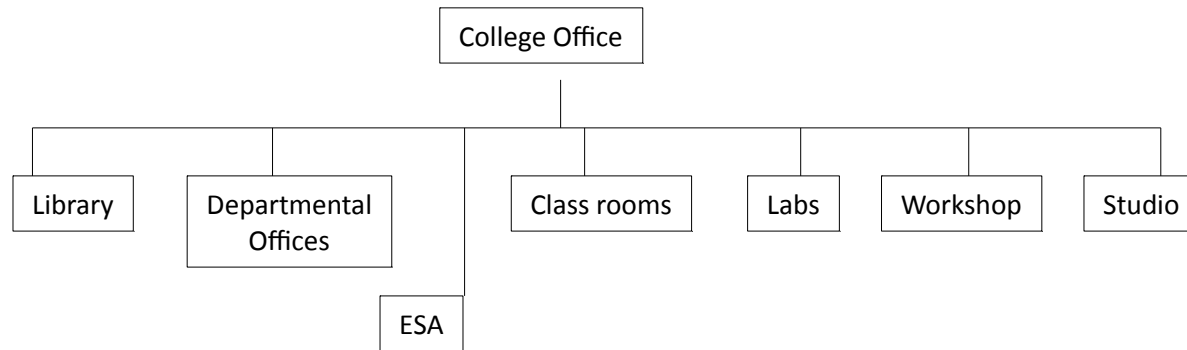


**2.1.9.4. Organizational Structure of the Civil Engineering Department**

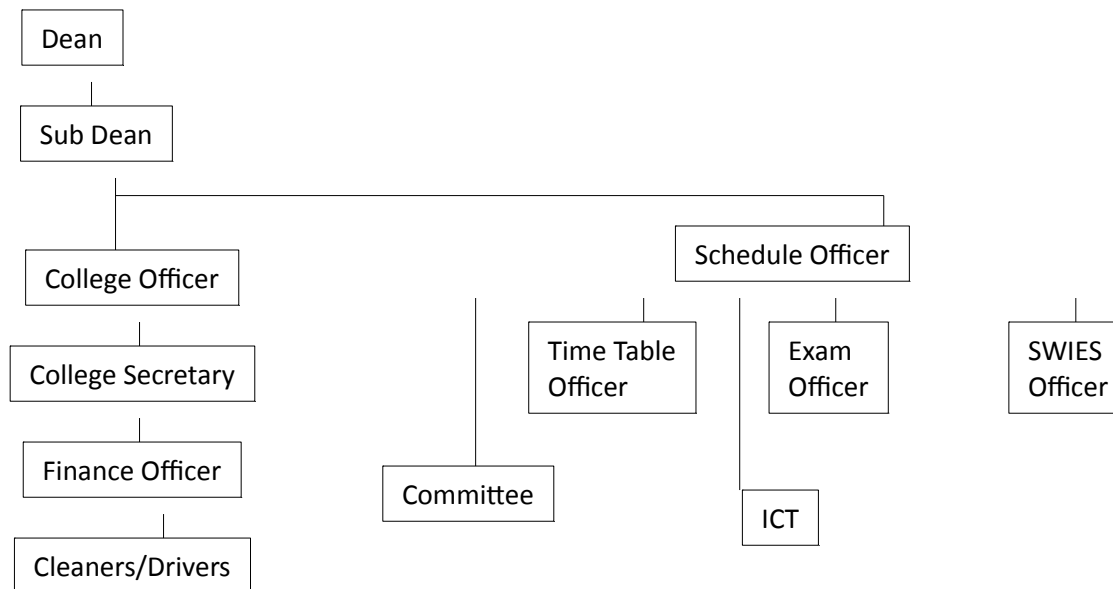


**2.1.9.5. Plan Layout and Organizational Structure of the College/ Civil Eng. Dept.**

(Collegiate system with the following structures (Administrative /Department)



**1.College Office**



|

#### **2.1.9.10. College Committees/Boards**

- College Board
- Board of Examiners
- Appointment And Promotion Committee
- Welfare
- Disciplinary
- Finance
- Executive Committee
- Awards And Prizes Committee
- Welfare Committee
- Sports Committee
- Strategic Planning Committee
- Curriculum
- Examinations Committee
- Time Table
- ICT
- SIWES / IT Committee
- Students' Advisory Committee
- ICT Committee
- Research And Publications Committee
- Seminar Committee
- Project Coordinating Committee

### **3. GENERAL PHILOSOPHY AND OBJECTIVES OF THE COLLEGE/DEPT**

#### **3.1. General Philosophy and Objectives**

The general philosophy in line with the minimum academic standards set by the COREN is to produce graduates with high academic standard with adequate practical background and of immediate value to industry and the nation in general; and be self-employable. The programme has four-intervening Industrial-Training periods to enable the engineering graduates acquire the necessary skills to solve local problems. Pursuant to the general philosophy, therefore, the programmes have been designed to incorporate the following features:

- (a) Common courses at the 100 and 200 levels for all engineering students
- (b) 8 weeks industrial training workshop practical at the end of the 2<sup>nd</sup> semester 100 level examinations for all engineering students.
- (c) Workshop practice (up to 300 level) and, laboratory work for all engineering students.
- (d) Interaction between students and professionals through regular seminars
- (e) Final year research project where the student works alone under an academic supervisor
- (f) Opportunity to have in-depth study of a specific area of the programme from a wide selection of optional courses.
- (g) Adequate knowledge in engineering management and entrepreneurship

### 3.2. GOALS AND OBJECTIVES:

The general goals and objectives of engineering training are expected to be in consonance with the realization of national desires with respect to industrial development and high technology attainment. Consequently, the objectives of the engineering programmer are to:

- (a) Develop the necessary skills, creative ability, attitudes and expertise consistent with engineering design, communication and construction of engineering works and projects;
- (b) adapt and improve on exogenous technology in order to enhance construction techniques and the proper study and use of local raw materials;
- (c) inculcate maintenance culture in the use of engineering artifacts;
- (d) inculcate a responsible attitude towards demands made by the practice of engineering and risk implication of design and construction;
- (e) install and maintain complex engineering systems to enable them perform optimally in the Nigerian environment;
- (f) be able to exercise original thought, have good professional judgment and be able to take responsibility for the direction of important assignments;
- (g) be self employable, and,
- (h) ensure therefore, that engineering graduates from Igbinedion University are resourceful, creative, knowledgeable and capable of carrying out the following functions:
  - (i) to design engineering projects and supervise their construction;
  - (ii) to design components of Civil Engineering Systems and Works – Structures, Water Resources Systems, Highways, Transportation, etc.;
  - (iii) to design materials mix proportions (quality control) to get a high standard works;

To be good manager of people, money, material, plants and projects.

The general goals and objectives of engineering training are expected to be in consonance with the realization of national desires with respect to industrial development and high technology attainment. Consequently, the objectives of the engineering programmes are to:

### 3.3. DEPARTMENTAL / COLLEGE VISION

#### 3.3.1. Departmental Vision

The departmental mission is to develop into a national resource that will continue to support the development of Nigeria, its economic diversification to make it responsive to the needs of government, industry and society. Thus, the department will provide:

- State-of-the-art technological and engineering training that prepares the graduates for responsibilities of the workplace.
- To produce qualified and competent Civil Engineers in such areas of specialization as – Structural Engineering, Water Resources Engineering, Highways and Transportation Engineering, Foundation /Geotechnical Engineering Construction Management, etc.
- Engage in appropriate research activities, and, hence, produce the most sought-after engineers by all employers of labour, post graduate schools and research institutes.
- Establish industry-institution linkages for mutually beneficial relationships
- Strive to become a Centre of Excellence in Engineering and Technology in the West-African sub-region where expertise and facilities to accelerate the pace of industrial development can be provided.

The dream of the department is to become one of the best Civil Engineering Departments in any Nigerian University with national and international acclaim. A department where the advancement of engineering and technology is continuously dynamic. Its graduate will become very capable and environmental-friendly engineers who would be very relevant in the public and private sectors of the economy and rapid industrialization and development of Nigeria.

### **3.3.2. College Vision**

The vision of the College is to be the best Engineering College in any Nigerian University with national and international acclaim; a College where the advancement of engineering and technology is continuously dynamic, environment-friendly engineers, required in the public and private sectors of the economy are mid-wifed for the rapid industrialization and development of Nigeria.

## **4. SPECIFIC REQUIREMENTS TO ACHIEVE THESE GOALS AND OBJECTIVES**

In order to achieve the goals and objectives set out above, and taking into consideration the broad-based approach to engineering education and training, we therefore made the following recommendations

### **4.1. Academic Staff:**

Efforts are made to ensure that the NUC guideline on staff-student ratio of 1 to 30 is maintained. The College has qualified staff with PhD. degrees as well as industrial experience.

### **4.2. Technical Staff:**

The College has competent technical staff to run the laboratories, workshops, studios, and maintain teaching and research equipment.

### **4.3. Admission Requirements:**

- (1) Candidates seeking 100-level admission into the College leading to the Bachelor of Engineering, (B.Eng) Degree, of the College of Engineering Technology should possess passes at the credit level, or higher, in the Senior Secondary School Certificate Examination(SSCE) or General Certificate of Education (GCE) 'O' Level in five subjects, including Mathematics, Physics, Chemistry and English Language, plus an acceptable pass in the Universities Matriculation Examinations (UME), where applicable. Equivalent passes in examinations conducted by NECO and NABTEB are accepted.
- (2) Candidates seeking Direct Entry admission to 200 level of the programmes should possess GCE 'A' Level in Mathematics, Physics and Chemistry or Ordinary National Diploma from a recognize institution with lower credit, or a University Diploma in a Science or Engineering based course at the Merit level, in addition to the matriculation requirements stated in (1) above. Candidates with Higher national diplomas in relevant disciplines can be considered for direct entry as appropriate Curriculum

### **4.4. Course Credits**

All courses for the Bachelor of Engineering degree programmes should be based on the various Departments. Courses taken at the 100 and 200 levels are common to all Departments in the Faculty and are taught Faculty-wide by Departments assigned to teach the courses. All courses are assigned credits. One credit is equivalent to one

hour per week per semester of fifteen (15) weeks of lectures or tutorials or three (3) hours per week of laboratory work per semester. All students in the programmes should take a minimum load of eighteen (18) credits per semester. A minimum of nine (9) hours per week, (equivalent to three (3) credits), should be spent on laboratory practical.

**There should also be one hour of tutorial for every four (4) hours of lecture.**

#### **4.5. Registration:**

At the beginning of every session all students are to register for all their courses for that session using online registration as required by the University's Examinations and Records Unit of the Registry. They must register for a minimum of 18 credits per semester and 36 credits per session. The maximum number of credits for a session must, however, not exceed 52 credits.

##### **4.5.1. Course Adviser:**

Each Head of Department appoints academic staff as course adviser to the students for the different level of study, with the primary responsibility of ensuring that the students register for the courses and credits as is required, and advising them on University regulations as they relate to their studentship.

##### **4.5.2. Industrial Training:**

Engineering education is incomplete without industrial attachment being part of the degree programme. The NUC recommends a minimum duration of 40 weeks (one semester and 3 long vacations) for industrial attachment. The objective of the attachments cannot be overemphasized. It is to expose the students to a live working environment where they can relate theory to practice and enhance their communication and human relation skills. Priority is given to those engineering concerns in which maintenance and workshop practice plays a major role because they offer practical exposure that may be available in the Colleges. From the aforementioned, the following practical training scheme: Igbinedion University Industrial Training Scheme, (IUIITS), is carried out by the college:

(i) **Pre-degree IUIITS – IUIITS 102**

This is an intensive eight-week in house practical training in the various workshops within the College and around the campus. It commences two weeks after the end of the 100 level Session Examinations for 100 level Engineering students. During this period, the students are exposed to workshop practices that may be encountered in the mechanical, machine, sheet metal, automobile, welding, carpentry, civil and electrical engineering workshops.

(ii) **First Industrial Attachment (200 level IUIITS) – IUIITS 202**

This takes place in the long vacation after the end of the 200 level session examinations, in relevant industries for a period of 12 weeks, with supervisory visits by College staff.

(i) **Second Industrial Attachment (300 Level IUIITS) - IUIITS 302**

The attachment takes place at the end of the 300 level session examinations for 12 weeks of the long vacation. Again College staffs are expected to visit the trainees for on-the-spot assessment of their progress.

(ii) **Third Industrial Attachment (400 Level IUIITS) - IUIITS 402**

The attachment, which begins at the end of the first semester examinations, at the 400 level of the programme, is the final exposure to industrial practice

before the completion of the Bachelor of Engineering degree programme. It last for 24 weeks. It is expected that during the training, the student is exposed to his/her chosen end Degree.

**(iii) Grading and Assessment of Industrial Training**

This should be a combination of Continuous Assessment (CA) by the supervising college staff that visit the students on training, and the grading of the logbooks and final written reports of each student at the end of each training attachment. The designated officer of the establishment must properly authenticate such logbooks and reports where the students served.

Each week of Industrial Training is assigned one (1) credit. Consequently the totality of Industrial Training amounts to 56 credits. For a student to graduate, such a student must have satisfied 42 IUIITS credits and obtained a minimum of 50% in the logbook and final written report.

**5.1. Examinations; Standard Tests and Continuous Assessment**

**5.1. Examinations:** The department complies fully with the regulations of the NUC in conducting standard tests and examinations. Examination Questions are set by the Course Lecturer and the Head of Department/departmental board of Examiners/External Examiner(s) vet and select questions to be attempted by students. This is applicable to 100 level – 500 level Students. Examinations are conducted in large halls with students sitting with a or two space(s) in between. Questions are marked in line with a prepared marking scheme.

**5.2. Standard Tests and Continuous Assessment.** The department also, fully and strictly implements continuous assessment program. The continuous assessment package of the department comprises of: class attendance; assignments; and tests all of which carry 30% while the examination carry 70%. The continuous assessment grading system of the department is given below.

**Continuous Assessment (CA) System of the Civil Engineering Department**

S/No,	Components	Allocated Marks (%)
1.	Class Attendance	5 %
2.	Assignment	10%
3.	Tests	15%
	<b>Total CA</b>	<b>30%</b>
4.	Examination	70%
	<b>TOTAL MARKS</b>	<b>100%</b>

In addition, attendance (physical presence) of the student at lectures is very important, and class register is strictly kept as well as checked by the University Authority before the semester examination. A student must have attendance score of 75 % to become eligible to sit for and write semester examinations. Typical examination questions and model solution / marking schemes are appended or attached at the end of this COREN Self Study Form. See



Appendix 2: Also, a typical examination time table is put in appendix 1 of this self study form.

**5.3. Eligibility for summer:**

Eligible students for the summer school will be those:

- (a) Who are not indebted to the University in any form?
- (b) Who have attended lectures during the semester(s), sat for examination and failed in the relevant course(s)
- (c) Who have attended lecture for the said course(s) during the semester(s) but failed to sit for examination due to acceptable reasons as approved by Senate.

**5.1.1.** To qualify to register for any course in summer, a student must score at least 25% for the said course(s). In other words, a student who scores below 25% in any course(s) will automatically carry such course(s) over to the next level of study.

**Table 1.1: Students Who Registered Two Semesters, (100 & 200 Levels)**

Category	Total credits earned	Status
A	All credits registered	Pass
B	$\geq 23$ credits	Pass with carry over
C <sup>(1)</sup>	$\geq 12 < 23$ credits	Probation
D <sup>(2)</sup>	$< 12$ credits	Fail withdraw
E <sup>(3)</sup>	$\geq 12 < 23$ credits	Fail withdraw because of previous probation

**Table 1.2: Students Who Registered Two Semesters (300 & 400 Levels)**

Category	Total credits earned	Status
A	All credits registered	Pass
B	$\geq 15$ credits	Pass with carry over
C <sup>(1)</sup>	$\geq 8 < 15$ credits	Probation
D <sup>(2)</sup>	$< 8$ credits	Fail withdraw
E <sup>(3)</sup>	$\geq 8 < 15$ credits	Fail withdraw because of previous probation

**Table 1.3: Students Who Registered One Semester Only (400 Level)**

Category	Total credits earned	Status
A	All credits registered	Pass
B	$\geq 8$ credits	Pass with carry over
C <sup>(1)</sup>	$\geq 4 < 8$ credits	Probation
D <sup>(2)</sup>	$< 4$ credits	Fail withdraw
E <sup>(3)</sup>	$\geq 4 < 8$ credits	Fail withdraw because of previous probation

**Notes:**

- 1) Students in category C in the tables may be allowed to remain in the College and repeat all the courses from the previous session in the new session, or transfer to another College.

- 2) Students in category D are to withdraw from the University for Poor Academic Performance.
- 3) Students in category E are to withdraw from the University having failed to utilize the probation period to improve on their academic performance.

## 6. Graduation

For a student to qualify for graduation from any of the programmes, such a student must have passed all the prescribed courses in addition to satisfactorily meeting the Industrial Training requirements, and all General studies courses of the University. Such a student must have also met the minimum number of years and not exceeded the maximum number of years required for graduation shown in Table 1.4.

**Table 1.4: Minimum and Maximum No. of years Required for Graduation**

Level of entry	Minimum number of years to graduate	Maximum number of years to graduate
100 level	5	8
200 level	4	6
300 level	3	5

The class of the Bachelor of Engineering Degree is determined by the final cumulative grade point average earned by the graduating student.

### 6.1. Cumulative Grade Point Average (CGPA)

The CGPA for each level of course is calculated from a combination of the grade GP assigned to % scored obtained in the examination and the credit assigned to that course. The relationship presented in Table 1.5.

**Table 1.5: Calculation of GPA**

Courses attempted (a)	Credits attempted (b)	% Scores (c)	Letter grades (d)	Grade point (e)	Grade point credit weighed (f) = b) x (e)	Cumulative grade point average (GPA) (g) = $\sum(f) / \sum(b)$
CHE 211	3	70 – 00%	A	5	3 x 5 = 15	<u>46</u> = 2.42 19
CHE 221	3	60 – 69%	B	4	3 x 4 = 12	
CHE 231	4	50 – 59%	C	3	4 x 3 = 12	
CHE 241	2	45 – 49%	D	2	2 x 2 = 4	
CHE 251	3	40 – 44%	E	1	3 x 1 = 3	
CHE 261	4	0 – 39%	F	0	4 x 0 = 4	
Total 19				Total 46		

Thus the student who attempted the 200 level courses shown in Table 1.6, sat for a total of 19 credits, and ended up with a GPA of 2.42 for that level. This mode of computation is done for each level per student. The cumulative grade points average, CGPA on which the classification of a graduating student is based, is the sum of the GPA's for each level divided by 5 for a 5-year programme, or 4 for a 4-year programme presented in Table 1.6.

Table 1.6: CGPA for a Graduating Student, Mr. XYZ

Mat No.	Name of Student	Level	Value point/credit unit	CGPA
ENG9900020	Mr. XYZ	100	157/49	827/217 = 3.81
		200	162/48	
		300	200/49	
		400	128/29	
		500	180/42	
		5	827/217	

The degree classification, according to the CGPA recommended by the NUC is presented in Table 1.7.

**Table 1.7: Degree Classification**

CGPA	Class of Degree
4.50 – 5.00	First Class
3.50 – 4.49	2 <sup>nd</sup> Class Upper Division
2.40 – 3.49	2 <sup>nd</sup> Class Lower Division
1.50 – 2.39	3 <sup>rd</sup> Class Lower Division
1.00 – 1.49	Pass

Thus, the candidate, Mr. XYZ who finished up with a CGPA of 3.81 has earned a 2<sup>nd</sup> Class Upper Degree.

## 7. ADMISSION REQUIREMENTS:

### 7.1. General Admission Requirements:

Candidates seeking 100-level admission into the Civil Engineering Department leading to the Bachelor of Engineering, (B. Eng) Degree, should possess passes at the credit level, or higher, in the Senior Secondary School Certificate Examination(SSCE) or General Certificate of Education (GCE) ‘O’ Level in five subjects, including Mathematics, Physics, Chemistry and English Language, plus an acceptable pass in the Universities Matriculation Examinations (UME), where applicable. Equivalent passes in examinations conducted by NECO and NABTEB are accepted.

### 7.2. Direct Entry Requirement:

- (i) Two A’ level passes in Mathematics and Physics and an additional subsidiary subject. Candidates are expected to possess five credits including English Language, Mathematics, Physics, Chemistry and an additional subsidiary subject results at O’level and A’level must be obtained at not more than two sittings; or  
A National Diploma certificate from approved universities or colleges of technologies or Polytechnics with a grade not lower than Merit. In addition, the applicant must possess five credit at SSCE/GCE O’ level / NECO or its equivalent in subjects which includes English Language, Mathematics and Physics, Chemistry and an additional subsidiary subject.
- Any other relevant credential approved by the Senate of the University.

### 7.3. UME

Five O' level credits including English Language, Mathematics, Physics, Chemistry and an additional subsidiary subject and any other two relevant subjects.

- a) Programme/Sub-discipline/Discipline Structure to include period of formal studies in the Universities. Industrial training, planned visit and projects.  
B.Eng. (Civil) - 5 years.  
By Direct Entry - 4 years.
- b) Course Content Specifications / Syllabus of all courses in the Programme / Sub-Discipline / Discipline.
- c) Attach a list of Titles of Degree projects, if any, carried out by the students in the Programme/Sub-Discipline/Discipline in the last three years.

### 7.4. Duration

The duration for the Civil Engineering Course is:

UME	-	B.Eng. (Civil)	-	5 years.
Direct Entry	-			3/4 years.

## 8. ACADEMIC REGULATIONS

Academic Regulations are contained in the standard civil engineering departmental handbook. The handbook also contains entry requirements, rules and regulations governing the conduct of examinations, grading systems, penalties for examination malpractices, etc.

### 8.1. Academic Staff:

Efforts should be made to ensure that the COREN guideline on staff-student ratio of 1 to 9 is maintained. In the same vein, each department should have a minimum of six full-time equivalents of staff on ground. The need to recruit some staff with Ph.D. degrees as well as industrial experience cannot be over-emphasized. The entry qualifications of staff seeking academic placement in the College, as recommended by the COREN, are reproduced below, with slight modifications:

- (a) **Graduate Assistant:** Candidates must have an Honours Degree in the appropriate discipline with at least a Second Class (Lower pass), and should have completed the National Youth Corps Service, where applicable.
- (ii). **Lecturer II:**  
Candidates must have a degree of Master in the appropriate discipline plus at least two years of cognate experience.
- (iii). **Lecturer I:**  
Candidates should normally have Ph.D. Degree with at least one year of teaching or industrial experience, plus one scholarly publication. However, where a candidate does not possess a PhD, but has a degree of Master with sufficient industrial experience, acceptable for professional registration, such a candidate, who should also show evidence of research potential, may be considered.
- (iv). **Senior Lecturer:**

Candidates should normally possess a Ph.D. Degree and/or research experience and/or industrial experience. Such candidates should also have six (6) scholarly publications, four (4) of which must be journal articles. The other two (2) may be referred Proceedings or Technical Reports. The candidates should also be registered with their professional bodies (COREN, etc.).

(v) **Associate Professor:**

Candidates should normally possess a Ph.D. Degree with teaching and research experience. Such candidates should possess the ability of providing academic leadership in addition to having a considerable number of referred journal publications (not less than 12), that must be assessed externally.

(vi) **Professor:**

Candidates should normally possess a Ph.D. Degree, with teaching and research experience. They should have demonstrable ability to provide virile academic leadership in addition to a considerable number of referred journal articles that must be externally assessed.

**8.2. Technical Staff:**

The services of very competent senior technical staff are required to run laboratories, workshop/studios, and maintain teaching and research equipment. The requisite qualification and experience are presented below for each category of technical staff:

(b) (i) **Assistant Technical Officer:**

Candidates should possess an Ordinary National Diploma in the appropriate discipline.

(ii) **Technical Officer II/Technologist II:**

Candidates should possess a Higher National Diploma with at least two (2) years cognate experience, or a City and Guilds Certificate with at least four (4) years cognate experience.

(iii) **Senior Technical Officer/Technologists:**

As above, but with at least six (6) years and eight (8) years cognate experience as per qualification, respectively.

(iv) **Principal Technical Officer/Technologist:**

As above, but with at least eight (8) years and ten (10) years cognate experience, respectively.

(v) **Assistant Chief Technical Officer/Technologist:**

As above, but with at least twelve (12) years, and fourteen (14) years cognate experience, respectively.

(vi) **Chief Technical Officer/Technologist:**

As above, but with at least fourteen (14) years and sixteen (16) years cognate experience, respectively.

**9. ACADEMIC CURRICULUM CONTENTS**

**9.1. Objectives**

- a) To provide a highly motivated academic environment that fosters the academically minded to pursue further studies and research in Civil Engineering.
- b) To develop manpower for the country.

To contribute to the supply of academic sound and competent professional engineers for both Nigerian Universities and the Nigerian Industries.

## 9.2. Introduction to Courses Offered

(a)Engineering is the application of principles of fundamental sciences, engineering, economics, computer technology, and human relations to practical situations in fields dealing with processes and equipment in which matter is treated to produce something that is beneficial to society. Training in engineering requires the provision of knowledge, skill and understanding of these principles, for the planning, optimum design, construction, operations of new processes with due consideration to the environment, expansion and or revision of existing ones and assessment of performance of processes and equipment. It is on this premise that the program has been structured

**9.2.1. 100 Level and 200 Levels:** Engineering students take common courses at 100 and 200 levels with their counterparts in other Departments of the College with very minor exceptions at the 200 level.

**9.2.2. 300; 400; 500 Levels:** At this levels, the students take some Core Engineering courses in their respective departments in addition to relevant courses offered by the College. The detailed course structure is as presented in various sections below.

**9.2.3.Course Coding:** It is proposed that all courses be coded according to Department, level and semester. Thus, the Department codes are as follows:

Chemical Engineering	-	CHE
Civil Engineering	-	CVE
Computer Engineering	-	CPE
Electrical/Electronic Engineering	-	EEE
Mechanical Engineering	-	MEE
Petroleum Engineering	-	PET
Engineering and Management	-	GRE
Entrepreneurial Studies	-	ESP
University General Studies	-	GST

The level codes are as follows:

100 level	-	1
200 level	-	2
300 level	-	3
400 level	-	4
500 level	-	5

Semester codes are as follows:

First Semester	-	1 or any odd number
Second Semester	-	2 or any even number

For example, the full course code for a 200 level course, offered by Chemical Engineering in the first semester, is of the form: CVE 241 where, 2 represents the level, 4 the number assigned by the Department to track the course, and 1 represents the semester. Should the same course be available in the second semester, the course code would be CVE242 where the '2' at the end of the figure signifies the second semester.

## 9.2.4.COURSE CONTENTS (SYLABUS)

Course Content Specifications for all courses in the department of civil engineering is placed at the end of the course schedule table below.

### 9.2.4.1. Benchmark Minimum Academic Standards of the NUC (BMAS)

All levels at all levels (100 - 200 level) are in line with the Benchmark Minimum Academic Standards of the NUC (BMAS), as outlined/detailed:

## 9.3. COURSE STRUCTURES/DESCRIPTIONS

### 9.3.1. 100 LEVEL COURSE STRUCTURE/ CONTENTS

#### 9.3.1.1. 100 Level Common Courses:

The common 100 Level courses are: Mathematics; Physics; Chemistry; General Studies, and Laboratory Practicals. The course structure, showing the number of hours allocated for lectures, tutorials and practical and the credits assigned to each course is presented below

#### 9.3.1.2. 100 LEVEL COURSE STRUCTURE/ CONTENTS AND DESCRIPTION

##### FIRST SEMESTER

Semester	S/No	Course Code	Course Title	L	T	P	Credit Units	Pre-requisites
First	1.	MTH 111	Algebra & Trigonometry	2	1	-	3	O' Level Maths
	2.	MTH 112	Calculus / Real Analyses	2	1	-	3	O' Level Maths
	3.	CHM 111	General Chemistry 1	2	1	-	3	O'L Chem/Maths
	4.	CHM 112	Organic Chemistry I	2	-	-	2	O'L Chem/Maths
	5.	PHY 111	Mechanics and Properties of Matter	1	1	-	2	O' L Phy/Maths
	6.	PHY 112	General Physics	1	1	-	2	O' L Phy/Maths
	7.	PHY 113	Thermal Physics I	1	1	-	2	O' L Phy/Maths
	8.	GST 111	Communication In English 1	2	-	-	2	O' L English
	9.	GST 112	Logic, Philosophy And Human Existence	2	-	-	2	O' L English
	10.	GST 113	Nigerian History And Culture	2	-	-	2	O' L English
				<b>TOTAL CREDIT UNITS</b>				<b>21</b>

##### SECOND SEMESTER

Semester	S/No	Course Code	Course Title	L	T	P	Credit Units	Pre-requisites
	1.	MTH 121	Vectors, Geometry/Statistics	2	1	-	3	O' Level Maths
	2.	MTH 122	Differential Equations & Dynamics	2	1	-	3	O' Level Maths
	3.	CHM 121	General Chemistry II	2	1	-	3	O'L

<b>SECOND</b>								Chem/Maths
	4.	CHM 122	General Chemistry	-	-	2	2	O'L Chem/Maths
	5.	CHM 123	Organic Chemistry II	2	1	-	3	O'L Chem/Maths
	6.	PHY 100	Practical Physics	-	-	2	1	O' L Phy/Maths
	7.	PHY 121	Electromagnetism	1	1	-	2	O' L Phy/Maths
	8.	PHY 122	Modern Physics	1	1	-	2	O' L Phy/Maths
	9.	PHY 123	Vibrations, Waves and Optics	1	1	-	2	O' L Phy/Maths
	10.	GST 121	Use of Library, Study Skills and ICT	2	-	-	2	O' L English
	11.	GST 122	Communication In English II	2	-	-	2	O' L English
	12.	GST 123	Communication In French	2	-	-	2	O' L English
	13.	IUITS 102	Igbinedion University Industrial Training Scheme I	1	-	1	1	
			<b>TOTAL CREDIT UNITS</b>				<b>27</b>	
			<b>GRAND TOTAL CREDIT UNITS</b>				<b>48</b>	

**Note:** L = Lecture Hours/Week; T = Tutorial Hours/Week; P = Practical Hours/Week.

### 9.3.1.3.100 LEVEL COURSE CONTENTS/DESCRIPTION

#### **MTH111 – Algebra And Trigonometry**

**3 Credits**

Real number system: simple definition of integers, rational and irrational numbers. The principle of mathematical induction. Real sequences and series; elementary notions of convergence of geometric, arithmetic and other simple series. Theory of quadratic equations. Simple inequalities: absolute value and the triangle inequality. Identities: partial fractions. Sets and Subsets, union, intersection, complements, properties of some binary operations of sets; distributive, closure, associative, cumulative laws with examples, relations in a set; equivalence relation. Properties of set functions and inverse set functions, permutations and combinations. Binomial theorem for integer  $n - 0$  index: Circular measure, trigonometric functions of angles of any magnitude. Addition and factor formulae. Complex numbers; algebra of complex numbers, the Argand diagram, De Moivre's theorem,  $n$ -th root of unity.

#### **MTH112: Calculus/Real Analyses -**

**3 Credits**

Elementary functions of a single real variable and their graphs, limits and the idea of continuity. Graphs of simple functions; polynomial, rational, trigonometric, etc., rate of change tangent and normal to a curve. Differentiation: as limit of rate of change of elementary functions, product quotient, function of function rules. Implicit differentiation of exponential functions. Logarithmic and parametric differentiation. Use of binomial expansion for any index. Stationary values of simple functions: maxima, minima and points of inflexion, integration by substitution and by parts. Definite integral: Volume of revolution, area of surface of evolution.



**CHM111 – General Chemistry I****3 Credits**

Relationship of Chemistry to other sciences. Atoms, subatomic particles, Isotopes, Molecules. Avogadro's Number. Mole concept. Dalton's Theory, Modern concepts of atomic theory. The laws of chemical combination. Relative atomic masses. Nuclear binding energy, fission and fusion.

**The states of matter:**

**Gases:** Gas Law. The general gas equation.

**Liquids and Solids** – Introduction to lattice structure, Isomorphism. Giant molecules.

Introduction to the Periodic Table. Hydrogen and hydride Chemistry of Groups 0, I, II elements. Acid-Base properties of oxides.

**CHM112: Organic Chemistry I****2 Credits****(a) General Principles of Organic Chemistry:**

- (i) Introduction: Definition of Organic Chemistry. Classification of Organic compounds. Homologous series. Functional groups.
- (ii) General procedure for isolation of purification of organic compounds.
- (iii) Determination of structure of organic compounds. Elemental analysis, percentage composition, empirical and molecular formula, structural formula.
- (iv) Isomerism. Structural isomerism and stereo isomerism.
- (v) Electronic theory in organic chemistry. Atomic models, quantum numbers, atomic orbital. Hybridization leading to formation of carbon-carbon, single, double and triple bonds. Hydrogen bonding, electronegativity. Dipole moment. Polarization, bond energy. Inductive and resonance effects.

**(b) Non-Polar Functional Group Chemistry:**

- (i) Alkenes: Structure and physical properties. Substitution actions including mechanism.
- (ii) Alkenes – Structure and physical properties. Reaction: addition (of  $H_2$ ,  $X_2$ ,  $HX$ ,  $H_2O$ ,  $O_3$ ), etc; Oxidation polymerization. Stereoisomerism – definition, geometrical and optical isomers, conditions for optical isomerism.
- (iii) Alkynes, structure. Acidity of acetylenic hydrogen. Reaction: addition of  $H_2$ ,  $X_2$ ,  $HX$ ,  $H_2$ ,  $H_2$ ,  $O$ , etc. Test for Alkynes.
- (iv) Benzene: Structure and aromaticity of benzene. Introduction to electrophillic.
- (v) Introduction to petro-chemistry. Origin of petroleum importance, fractional distillation of crude oil, components properties and uses. Octane number, cracking.
- (vi) Coal tar chemistry, origin, production, important components and uses.

**CHM 113: Practical Organic Chemistry:**

Experiments in basic techniques in organic chemistry: determination of melting points and boiling points, filtration, distillation, fractional distillation, re-crystallization, tests for functional groups: organic preparations.

**PHY111: Mechanics, and Properties of Matter -****2 Credits**

**Mechanics:** Scalars and Vectors: Addition and resolution of vectors. Rectilinear motion and Newton's law of motion. Inertial mass and gravitational mass; free fall; projectile motion; deflecting forces and circular motion. Newton's law of gravitation; satellites, escape velocity. Gravitational potential, potential; potential well; special case of circular motion.

Momentum and the conservation of a momentum. Work, power energy; units. Potential energy for a gravitational field and elastic bodies; kinetic energy conservation of energy; energy stored in a rotating body. Kinetic energy in elastic and inelastic collisions.

**PHY113: Thermal Physics** Temperature, heat, work; heat capacities; second law, Carnot cycle; thermodynamic ideal gas temperature scale. Thermal conductivity; radiation; black body and energy spectrum, Stefan's law.

Kinetic model of a gas: equation of state, concept of diffusion, mean free path, molecular speeds, Avogadro's number, behaviour of real gases. A model for a solid: inter-particle forces in solids, liquids and gases; physical properties of solids.

Crystalline structure: Close packing, orderly arrangements, elastic deformation of an ordered structure; interference patterns and crystals.

Model for Matter: Surface energy and surface tension, plastic deformation; thermal and electrical properties of metals.

### **GST111: Communication in English**

**2 Credits**

Effective communication and writing in English language skills, writing of essay answers comprehension sentence construction, outlines and paragraphs collection and organization of materials and logical presentation, Punctuation.

The course will consolidate the fundamentals of English Language including the following: Nouns and Pronouns (types and features), Verbs and Tense (varieties), Adjectives and Adverbs (varieties, features and functions), Conjunctions, Prepositions, Interjections, Clauses (types) and Sentences (types). Language skills of listening, speaking, reading and writing (choosing topics for writing, planning, assembling and organizing points, outline preparation, factors of unity, coherence, context, originality, mechanical accuracy and paragraph development). Forms of writing including narrative, descriptive, expository, argumentative, summary, correspondences and speech writing. Use of library including cataloguing systems, locating books/journals, lending/borrowing reference materials, indexing.

### **GST112: Logic, Philosophy and Human Existence**

A brief survey of the main branches of Philosophy. Symbolic logic, special symbols in symbolic logic-conjunction, negation affirmation, disjunction.

### **GST113: Nigerian History and Culture**

**2 Credits**

Study of Nigerian history, culture and arts in pre-colonial times, Nigerian's perception of his world; culture areas of Nigeria and their characteristics; evolution of Nigeria as a political unit, Indigene/settler phenomenon, concept of trade, economic self-reliance; social justice; individual and national development; norms and values; Negative attitudes and conducts (cultism and related vices), Re-orientation of moral environmental problems.

Principles of good and bad, right and wrong; moral implications of our choices; judgment and actions; morality versus expediency; the role of conscience; moral obligations of citizen

### **MTH121: Vectors, Geometry And Statistics:**

**3 Credits**

- (a) Vector and Coordinate: Types of vectors; points, line and relative vectors. Geometrical representation of vectors in 1 – 3 dimensions. Addition and vectors and multiplication by scalar; Components of vectors in 1, 3 dimensions; direction cosines. Linear independence of vectors. Point of division of a line. Scalar and vector products of two vectors. Simple applications. Two-dimensional coordinates geometry; straight lines, angle between two lines, distance between points. Equation of circle, tangent and

- normal to a circle. Properties of parabola, ellipse, hyperbola. Straight lines and planes in space, direction cosines; angle between line and between lines and planes; distance of a point from a plane; distance between two skew lines.
- (b) Statistics: Introduction of statistics. Diagrammatic representation of descriptive data. Measures of location and dispersion for ungrouped data. Grouped distribution measures of location and dispersion for grouped data. Problems of grouping. Associated graphs. Introduction to probability: sample space and events, addition law, use of permutation and combination in evaluating probability. Binomial distribution. Linear correlation; scatter diagram, product-moment and rank correlation. Linear regression.

**MTH122: Differential Equations And Dynamics** **3 Credits**

- (a) Differential Equations: Formation of differential equation of 1<sup>st</sup> degree and 1<sup>st</sup> order. Variables, separable, exact, homogenous and linear, differential equations of the 2<sup>nd</sup> order with constant coefficients.
- (b) Dynamics: Resume of simple kinematics of a particle. Differentiation and integration of vectors with respect to a scalar variable. Application to radial and transverse, normal and tangential, components of velocity and acceleration of a particle moving in a plane. Force, momentum and laws of motion; law of conservation of linear momentum. Motion under gravity, projectile. Simple cases of resisted vertical motion. Motion in a circle (horizontal and vertical). Law of conservation of angular momentum. Applications of the law of conservation of energy. Work, power and energy. Description of Simple Harmonic Motion (SHM). SHM of a particle attached to an elastic string or spring. The simple pendulum. Impulse and change in momentum. Direct impact of two smooth spheres, and of a sphere on a smooth plane.
- (c) Rigid body motion: Moments of inertia, parallel and perpendicular axes theorems. Motion of a rigid body in plane with one point fixed, the compound pendulum. Reactions at the pivot. Pure rolling motion of a rigid body along a straight line.

**CHM121: General Chemistry II** **3 Credits**

Acids, Bases and Salts. Quantitative analysis. Theory of volumetric analysis – operations and methods. Calculations: mole, molality, molarity. Behaviour of electrolytes. Water. Colligative properties. Ostwald's dilution law. Arrhenius, Bronsted-Lowery, Lewis concepts and applications. Buffers. Introduction to reaction rates. Equilibria and equilibrium constants. Solubility products. Common ion effects. Precipitation reactions.

**CHM122 Practical Chemistry II** **2 Credits**

Theory and Practice of quantitative thermal analysis, acid-base oxidation-reduction precipitation and complexometric titrations. Gravimetric analysis. Calculations data analysis and organic analysis for elements in groups IA, IIIA, 11B, IV. Thermal analysis of carboxylic etc.

**CHM123: Organic Chemistry II** **2 Credits**

- (a) **Polar Functional Group Chemistry:**

- (i) Hydroxyl group – Alcohol and phenols. Classification. Acidity-comparison. Important methods of preparation. Reactions: with metals, bases, alkyl halides. Oxidation, dehydration. Tests for alcohols and phenols., importance.
- (ii) Carbonyl group – Aldehydes and ketones structure: Physical properties. Important methods of preparation. Reactions: Tollen's reagent, Fehling's solution, benedict's solution, Iodoform reaction ; with HCN,  $\text{NaHSO}_3$ ; alcohols, including mechanisms, with ammonia, hydrazines and their derivatives, including mechanisms; aldol condensation. Tests for aldehydes and ketones. Importance.
- (iii) Carboxylic group: Mono-carboxylic acids. Structure. Physical properties. Acidity and resonance. Important methods of preparation, from alcohols, aromatic hydrocarbons, through Grignard's reagent. Reaction with bases. Conversion to esters, amides, halides and anhydrides. Tests for carboxylic acid. Importance.
- (iv) Carboxylic acid derivatives: Anhydrides acid halides esters and amides. Change of reactivity when OH of acid is replaced by – OOCOR-X –OR, –NR. Reaction with water, alcohols, ammonia and amines.  $\text{LiAlH}_4$ , Test for esters.
- (v) Amino group – Amines. Structure, Physical properties. Important methods of preparation. Reaction with acids, basicity and salt formation; Alkylation, acylation, with nitrous acids. Heisenberg method of separation. Tests for amines, importance.
- (b) **Miscellaneous Topics:**
  - (i) Fats and Oils: Definition, importance, Saponification, Soaps and detergents. Modes of cleaning action. Reaction of soap with hard water, mineral acids. Drying oils, mode of action, use in paints and varnishes.
  - (ii) Amino acids, Proteins: Definition, classification, essential amino acids, special properties and reactions, iso-electric point, tests, importance.
  - (iii) Carbohydrates: Definition, classification, importance, nomenclature, structure and reactions of glucose.
  - (iv) Natural Products: Main classes (other than lipids carbohydrates and proteins); Steroids, terpenoids, alkaloids, prostaglandins definition, importance, examples.

### **PHY100: Practical Physics**

**2 Credits**

Students are expected to carry out a minimum of 12 major experiments covering the main aspects of the courses taken in the year. pre-requisites: 0-Level or WASC.

### **PHY121: Electromagnetism**

**2 Credits**

Electric field: Strength, flux and the inverse square law; electrostatic force between two charged particles; flux model for the electric field. Energy stored in an electric field, electrical potential due to dipole.

Steady direct currents: Simple circuits; potential difference resistance, power, electromotive force, Kirchoffs laws; potential divider, slide-wire potentiometer, bridge circuits, combining resistances. Capacitors: Capacitance, combination of dielectrics, energy stored, charging/discharging. Electromagnetic effects; electromagnetic forces, electric motors, moving coil galvanometer, ammeter, voltmeter, electromagnetic induction, dynamo.

Alternating currents: Simple A.C. circuits, transformers, motors and alternating currents.

Magnetic field: The field at the center of a current-carrying flat coil of a current carrying solenoid, outside a long solenoid, flux model and magnetic fields. Electromagnetic induction: Induction in a magnetic field; magnitude and direction of induced e.m.f; energy stored in a magnetic field; self-inductance. Electricity and matter: Current flow in an electrolyte, Millikan experiment; conduction of electricity through gases at low pressure, cathode rays; photo-electricity.

**PHY 122 Modern Physics****2 Credits**

Structure of atom: Atomic theory, X-rays, Planck Quantum theory; Wave-particle nature of matter: scattering experiment of Geiger and Marsden, Rutherford atom model, Bohr's atom model. Structure of nucleus: Composition of nucleus, artificial transmutation of an element, natural transmutation of an element; discovery of neutron, particle, emission, isotopes, and gamma radiation. Prerequisite: O-Level or WASC.

**PHY123: Vibrations, Waves And Optics:****2 Credits**

Periodic motion of an oscillator: Velocity and acceleration of a sinusoidal oscillator, equation of motion of a simple harmonic oscillator: damped oscillations; forced oscillations; resonance; propagation of longitudinal and transverse vibrations.

Wave and light: Mirrors, formation of images, thin lenses in contact, microscope, telescope; chromatic and spherical aberrations and their reduction, Dispersion by prisms; relations between colour and wavelength; spectra.

**GST 121: Use of Library, Study Skills and ICT****2 Credits Units**

Brief history of libraries, library and education, University libraries and other types of libraries, study skills (reference services). Types of library materials, using library resources including e-learning, e-materials; etc. Understanding library catalogues (card, OPAC, etc) and classification, copyright and its implications, Database resources, Bibliographic citations and referencing. Development of modern ICT, Hardware technology software technology, input devices, software technology, input devices, storage devices, output devices, communication and internet services, word processing skills (typing, etc).

**GST122 Communication in English****2 Credits Units**

Logical presentation of papers, phonetics, Instruction on lexis, art of public speaking and oral communication figures of speech, précis, Report writing.

**GST123: Communication in French****2 Credits Units**

Introduction to French, Alphabets and numeric for effective communication (written and oral), conjugation and simple sentence construction based on communication approach, sentence construction, comprehension and reading of simple texts.

**IUITS 102: Igbinedion University Industrial Training Scheme 1 1 Credit**

A 6-week intensive training program within the university. Introductory lectures on engineering; Exposure and visits to engineering project sites both within the university; neighbourhood; and visit to engineering based establishments. Intensive industrial training in the university engineering workshops, etc. Students submit and defend reports at the end of the exercise. They also write examination.

**9.3.2. 200 LEVEL COURSE STRUCTURE/CONTENT/DESCRIPTION****9.3.2.1. 200 LEVEL COMMON COURSES**

200 level Civil Engineering Students do all the 200 level courses prescribed by the College and the University (as described below), excepting: CHE 212 Physical Chemistry II (done only by the Chemical Engineering Students; and CPE 212, done by Computer Engineering Students only).

**9.3.2.2. 200 LEVEL COURSE STRUCTURE****FIRST SEMESTER**

Semester	S/No	Course	Course Title	L	T	P	Credit
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		<b>Code</b>					<b>Units</b>
<b>FIRST</b>	1.	EMA 201	Engineering Mathematics I	2	1	-	3
	2.	ECP 201	Computers and Computing	2	1	-	2
	3.	ENS 211	Engineer in Society	1	1	-	1
	4.	CVE 211	Strength of Materials	1	1	-	2
	5.	EEE 211	Electrical Engineering I	2	1	-	2
	6.	MEE 211	Engineering Mechanics I	1	1	-	2
	7.	MEE 221	Engineering Drawing I	1	1	3	2
	8.	MEE 251	Thermodynamics I	1	1	-	2
	9.	MEE 271	Manufacturing Technology	1	1	-	2
	10.	ELA 201	Eng. Laboratory / Workshop Practice I	-	-	6	2
	11.	GST 211	History of Science and Philosophy	2	-	-	2
		<b>TOTAL CREDIT UNITS</b>				<b>22</b>	

### SECOND SEMESTER

<b>Semester</b>	<b>S/N</b>	<b>Course Code</b>	<b>Course Title</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>Credit Units</b>
<b>SECOND</b>	1.	EMA 202	Engineering Mathematics II	2	1	-	3
	2.	CPE 204	IT in Engineering	1	-	3	2
	3.	CVE 212	Strength of Materials II	2	1	-	2
	4.	CVE 222	Elements of Architecture	1	1	-	2
	5.	CVE 262	Fluid Mechanics I	1	1	-	2
	6.	EEE 212	Electrical Engineering II	1	1	-	1
	7.	MEE 212	Engineering Mechanics II	2	1	-	2
	8.	MEE 242	Material Science	1	-	2	2
	9.	ELA 202	Eng. Lab. / Workshop Practice II	-	-	6	2
	10.	GST 222	Peace Studies and Conflict Resolution	1	1	-	2
	11.	EPS 223	Introduction to Entrepreneurial Skills II	2	1	-	2
	12.	IUITS 202	Igbinedion University Industrial Training Scheme II	1	-	1	1
			<b>TOTAL CREDIT UNITS</b>				<b>22</b>
		<b>GRAND TOTAL CREDIT UNITS</b>				<b>45</b>	

**Note:** L = Lecture Hours/Week; T = Tutorial Hours/Week; P = Practical Hours/Week.

#### 9.3.2.3. 200 LEVEL COURSE STRUCTURE / DESCRIPTION

##### **EMA201: Engineering Mathematics I (3 Credits)**

- (a) Complex Analysis: Roots of a complex number. Addition formulae for any number of angles. To express sine in series or cosines of multiple angles. Exponential function of a complex variable. Circular functions of complex variable. Hyperbolic functions. Real and imaginary parts of circular and hyperbolic functions. Logarithmic functions of a complex variable. Real numbers; sequence and series; their convergence and divergence.
- (b) Vector: Force, moment and angular velocity. Vector differentiation and integration.

- (c) Linear Algebra: Linear spaces, algebra of determinants and matrices.
- (d) Calculus: Differentiations and applications. The mean value theorem and its applications. Extension of mean value theorem. Taylor and Maclaurin formulae, Liebnitz's theorem. (Application to the solution of differential equations with variable coefficients), de L'Hospital's. Partial derivatives of functions of two and more variables.

**ECP201: Computer and Computing 2 Credits**

Program design using pseudo-code/ Flowchart extensive examples and exercises in solving engineering problems. Computer programming using structure basic such as QBASIC symbols, keywords, identifiers, data types, operators, statements, flow of control, arrays, functions and procedures. Extensive examples in solving engineering problems using QBASIC. Use of Visual Programming such as visual Basic in solving Engineering problems.

**ENS211 (1 Credits)**

**Engineer in Society**

- (i) Philosophy of Science
- (vi) History of Engineering and Technology
- (vii) Safety in Engineering and Introduction to risk analysis
- (viii) The role of Engineers in nation building
- (ix) Invited lectures from professionals.

**CVE211: Strength of Materials (2 Credits)**

Force systems composition and resolution of forces, moment, couple, resultants of coplanar and three dimensional force systems, graphical methods in statics. Mechanical isolation of bodies, free body diagrams, conditions for equilibrium of coplanar and three dimensional force systems.

**Elasticity:** concept of uni-axial stress and strain. Typical stress-strain curve in tensile testing, **Hooke's law**, Modulus of Elasticity, proportional limit, elastic limit, yield point, ultimate strength, etc. Safe working stress, factor of safety.

Stress and Strain in axially loaded bar, in bars of varying cross-section and in a bar due to its own weight. Poisson's ratio. Shear stress and strain. Complementary shear stress. Strain energy in simple tensile and shear stress. Composite bars. Temperature stresses.

**Forces in Thin-Walled Pressure Vessels:** Hoop and Longitudinal stresses in pressure vessels. Bending of Beams: Calculation of reactions in statically determinate beams. Shearing force and bending moment diagrams. Relationship between load, shear force and bending moment. Theory of bending, second moment of area, bending stresses in beams.

**Torsion of shafts:**Stresses in rotating shafts and thin rotating rings; elastic torsion of solid circular and hollow shafts; shafts of varying diameter, shafts with varying torque, compound shafts.

**6.2. Introduction to Viscous Flow.**

1. **Introduction to Fluid Dynamics:** Mass; Energy Conservation Laws; Continuity of Flow Equations; Bernoulli's Equation; etc.

**EEE211: Electrical Engineering I (2 Credits)**

Units. Basic circuit elements and their behaviour in DC circuits. Basic circuit laws and theorems. Introduction to A.C. circuit. Resonance, power and power factor. 3-phase circuits. Basic distribution system. Electrical Measurement: Voltmeters, Ammeters, Ohmmeters, Wattmeters, Energy meters, Measurement of three phase power.

**MEE211: Engineering Mechanics I****(2 Credits)**

Mechanics, Fundamentals of Mechanics. Division of Mechanics, Co-ordinates and dimension in a space. Problem solving. Vector, system of forces and couples. Rigid Bodies and Equilibrium, Distributed forces, Structures and machines. Friction Moments and product of inertia. Work and virtual work.

**MEE221: Engineering Drawing I****(2 Credits)**

Introduction. Geometrical constructions. Principles of tangency, construction of slopes. Tapers and Gradients. Fundamentals of descriptive geometry and projection drawing. Central, parallel. Axonometric and Orthographic Projections. Projections of points, lines, plane figures and simple objects. True lengths. Orthographic projections of simple geometrical solids. Cylinder, Cone, pyramid, Prism, Sphere, Hemisphere. Topus I and II, Ring. Drawing of three orthographic Projections in first angle from the isometric views of a detail. Non-circular curves. Construction of an ellipse, parabola, hyperbola, Sinusoid, spiral of Archimedes, involute, cycloid, epicycloids, hypocycloid. Electronic draughting.

First and third angle orthographic projections of complex objects, Axonometric projection and their basic types; isometry. Construction of anoboid, prism, pyramid, circle, long cylinder in isometry. Construction of isometric views from three and two orthographic projections of an object. Freehand drawing. Development of surfaces curves of intersection. Interpenetration solids. Basic mechanical engineering drawing. Basic civil engineering drawings, including topographical, geological, structural and architectural. Basic wiring drawings, electronic components circuits.

**MEE 251: THERMODYNAMICS I****(2 credits)**

Systems, stages, property, interactions, equilibrium, cycle, point and path functions temperature, etc. Thermodynamic Properties of Pure Substances: Perfect gas, specific and latent heats, equations of state. Phases of pore substances – solids, liquids and gases. Phase equilibria and changes critical point, properties of vapours, use of thermodynamic tables. Heat and Work Transfers first law of thermodynamics, general energy equation and Bernouli's equation. Engine cycles, air-standard cycle, Otto-cycle, simple gas turbine cycle, Carnot cycle, heat pump, etc. Second law of thermodynamics, entropy irreversibility.

**MEE271 Manufacturing Technology I****2 Credits**

Elementary introduction to types and organization of engineering workshops, covering jobbing, batch, mass production. Engineering materials, their uses and properties. Safety in Workshops and general principles of working. Bench work and fittings: hand tools, instruments.

Carpentry: Hand-tools, materials, types of joints and fastenings: Bolt, rivet, welding, brazing, soldering, measurement and marking; for uniformity, circularity, concentricity, etc. Standard measuring tools used in workshops: welding, brazing and soldering: principle, classification, power source.

**ELA 202: ENGINEERING LABORATORY & WORKSHOP PRACTICE I****3 CREDITS**

Performing Laboratory Tests and doing workshop practice, etc.

**2.1. ELA 201 COURSE CONTENTS OUTLINES****2.1.1. CIVIL LABORATORY & WORKSHOP**



- 2.1.2. BONDING
- 2.1.3. STRETCHER BOND
- 2.1.4. ENGLISH BOND
- 2.1.5. FLEMISH BOND
- 2.1.6. PLASTERING
- 2.1.7. PLUMBING/SEWAGE SYSTEMS

#### **OTHER ENGINEERING LABS & WORKSHOPS**

- 2.1.8. MECHANICAL LABORATORY AND WORKSHOP
- 2.1.9. CHEMICAL LABORATORY AND WORKSHOP
- 2.1.10. COMPUTER LABORATORY AND WORKSHOP
- 2.1.11. PETROLEUM LABORATORY AND WORKSHOP

#### **GST 211: History and Philosophy of Science**

**2 Credits units**

Man-his origin and nature, man and his cosmic environment, scientific methodology, Science and technology in the society and service of man, Renewable and non-renewable resources- man and his energy resources, Environmental effects of chemical plastics, textiles, wastes and other material, Chemical and radiochemical hazards. Introduction to the various areas of science and technology. Elements of environmental studies.

#### **SECOND SEMESTER 200 LEVEL COURSES**

##### **EMA202: Engineering Mathematics II**

**3 Credits**

- (a) Further Integrations: Reduction formulae
- (b) Differential Equations –
  - (i) General Review: Exact differential equations. Simple applications in geometry, mechanics, chemical reactions and heat flow.
  - (ii) Second Order linear differential equations with constant coefficients. Further D-operator method. Solution of second order differential equations by method of change of variables. Introduction to partial differential equations (separation of variables).
    - (a) Mechanical and Electrical Oscillations: Oscillations of damped and un-damped mechanical systems. Electric circuit theory. Resonance.
    - (b) Numerical Methods: Introduction to numerical computation. Solution of non-linear equations. Solution of simultaneous linear equations-both direct and iterative schemes. Finite difference operators. Introduction to linear programming (Graphical solution).

##### **CPE 204: IT in Engineering**

**2 Credits**

Historical developments of Computers, External Components of computers, Characteristics of a computer, types and classification of hardware and software. Word processing : principle of operation, application, demonstration and practical hand- on exercises in word processing using a popular word processing package. Spread sheet : principle of operation, application, demonstration and practical hand- on exercises in the use of spread sheet to solve problems. Presentation software packages: principle of operation, application, demonstration and practical hand- on exercises in the use of popular report presentation package (such as power point). Mini project to test proficiency in the use of software packages. Database management Package: : principle of operation, application, demonstration and practical hand- on exercises in the use of DBMS package in solving problems. Mat Lab: principle of operation, application, demonstration and specific functions/toolboxes to solve specific engineering problems.

**CVE 212: Strength of Materials II****2 Credits****1. Advanced Topics in Shearing Forces and Bending Moments:**

Relationship between loading intensity, shearing force and bending moment. Shearing force and bending moment diagrams

**2. Geometric properties of sections.**

Statically moment of plane areas, moment of inertia of plane areas. Centroidal distances of plane areas, parallel axis theorem, Built-up or composite sections, etc.

**3. Elastic bending theory of beams.**

Derivation of standard equation for pure elastic bending (flexures or elastic curve);

Bending stress and bending moment; complimentary shear stress.

**4. Determination of slopes and deflection of Elastic curves of beams by such methods as**

4.1. Classical integration method.

4.2. Macaulay's Method

4.3. Moment Area method

4.4. Conjugate Beam method.

4.5. Principle of Super-position

4.6. Maxwell's principle of reciprocal deflection.

**5. Strain energy methods (Principle of Virtual work)**

For uniform and non-uniform bars subjected to simple tension, bending, shear and torsion.

**CVE 222: Elements of Architecture****2 Credits**

The aim is to introduce students to 3-dimensional awareness and graphic communication through techniques and exercises in space forms.

The free-hand drawing course taught in a classroom setting, where the drawing medium is restricted to pencils and pens. Subject matters on all include still life compositions, building and natural settings, projected slides, etc. Attention will be given to defining forms in terms of shades, light and shadow.

Basic principles of dealing with orthographic projections, isometric, diametric and perspective projections. Techniques for representing human beings, trees and landscape and other symbols and representations for building elements.

Construction of common mathematical curves. Techniques for graduation value distinction in flat and curved surfaces.

**CVE 262: Fluid Mechanics I****(2 Credits)**

**2. Elements of Fluid Statics:** Fluid (water, liquid, air); Density; Pressure; Surface Tension; Viscosity; Compressibility, etc.

**3. Basic Flow Measuring Devices:** Orifices; Weir; V-Notch; Pitot Tube; Venturi Meter, Parshall Flume; Prandtl Tube, etc

**4. Static Pressure/Head and Pressure Gauges:**

**4.1. Pressure Gauges:** U-Tube Manometer; Barometer; etc.

**4.1.1. Static Pressure and Head:**

**5. Hydro – Static Forces Exerted on Vessel Surfaces by Incompressible Fluid**Hydrostatic force; pressure and head; hydrostatic paradox; Hydraulic Jack, etc

**6. Properties of Fluid Section and Buoyancy:** Properties of sections; Center of Area; Mass; Volume; Gravity. Buoyancy and Archimedes Principle.

**7. Introduction to Basic Fluid Flow**

**7.1. Basics and Types of Flow:**

(i) Streamlines and Stream Tube;

- (ii) One- Directional Flow; Two- Directional Flow and Three- Directional Flow.
- (iii) Types of Flow: Uniform/Non-Uniform Flow; Steady/Non-Steady Flow; Laminar and Turbulent Flow; etc.

**EEE212: Electrical Engineering II**

**2 Credits**

Physics of Devices: Atomic structure, material classification, electron emission, gas discharge devices, semiconductor materials, p-n junction diode and transistor. Transistor amplifier, D.C. and A.C. analysis of transistor amplifier circuits. Transistor switching characteristics. Rectification and D.C. power supplies, Transformers, Introduction to DC and AC machines.

**MEE212: Engineering Mechanics II**

**2 Credits**

Position, reference frames and coordinates. Types of coordinates. Scalar and vector functions, function differentiation. Derivatives of vectors and moving references, frames, velocities and accelerations, relative motion.

Kinetics of Rigid Bodies: Translation and rotation about a fixed axis for rigid bodies, general two dimensional motion of rigid bodies, vectorial and non-vectorial techniques, impulse, momentum, energy methods, moments of inertia, equivalent mass and moment of inertia. Simple cases of equivalent dynamic systems. Kinematics of simple harmonic motion. Simple harmonic motion.

**MEE242: Materials Science**

**2 Credits**

Atomic Structure: Review of atomic structure and bonding in materials. Atomic and molecular structure, molecular crystals and amorphous structure. The metallic state, Defects in crystals. Electronic structures and processes (conductors, semi-conductors and insulators).

Alloy Theory: A simplified introduction to alloy theory illustrated by the Pb-Sn and Fe-C system. Application to industrially important alloys.

Engineering Properties of Materials: Engineering properties of materials and their control through changes in structure (Hot and Cold-working of metals, heat-treatment of steel, annealing, etc). Failure of metals, (Creep, fracture and fatigue). Corrosion and corrosion control.

Non-Metallic Materials: Non-metallic materials and their properties (glass, natural and synthetic rubber, plastics, ceramics and wood).

**GST 222: Peace Studies and Conflict Resolution**

**2 Credit units**

Basic concepts in peace studies and conflict resolution, Peace as vehicle of unity and development, conflict issues, types of conflict, Ethnic/religious/political/economic conflicts, Root causes of conflict and violence in Africa, Indigene/settler phenomenon, peace – building, management of conflict and security. Element of peace studies and conflict resolution, Developing a culture of peace, peace mediation and peace keeping, Alternative Dispute Resolution(ADR), Dialogue/arbitration in conflict resolution, Role of international organizations in conflict resolution, e.g., ECWOAS, African Union, United Nations, etc

**EPS 223: Introduction to Entrepreneurial Skills**

**- 2 Credits**

This course is the theory aspect of the programme with these components:

## **Introduction**

- I. Entrepreneur in Global Perspective
- II. Feasibility Study
- III. The Business Plan

## **Part 1: Business Strategy**

- I. Strategy management and planning for small business and service organization
- II. Forms of business ownerships products and service organization
- III. Franchise – business right without ownership: Is it for you?

## **Part 2: Accounting and Finance**

- I. Accounting and finance: The language of Business
- II. Financial Recording for small business and service organization
- III. Profit – planning and cash flow management
- IV. Preparing effective loan and investment package
- V. Identifying potential source of fund
- VI. Tax preparation for small business and service organizations.

## **Part 3: Physical Planning and ICT**

- I. Where to locate your business and service organization
- II. Layout and physical facilities: Production Vs service organizations
- III. Purchasing, Inventory, Crime Control and risk management
- IV. ICT for small business and service organizations.

## **Part 4: Management and Marketing**

- I. Basic law for business ownership and service organization
- II. Directing and motivating your employees
- III. Government regulation and assistance
- IV. Successful management fundamentals
- V. Pricing for profit and revenue
- VI. Affordable advertising and promotion.

## **ELA 202: ENGINEERING LABORATORY & WORKSHOP PRACTICE II 3 CREDITS**

**3**

### **Credits**

Performing Laboratory Tests and doing workshop practice, etc.

## **2. ELA 202: ENGINEERING LABORATORY & WORKSHOP II 3 CREDITS**

### **2.2. ELA 202 COURSE CONTENTS OUTLINES**

#### **2.2.1. CIVIL ENG LAB & WORKSHOP**

#### **2.2.2. WOOD WORK**

#### **2.2.3. WOOD TYPE**

#### **2.2.4. WOOD DEFFECTS**

#### **2.2.5. JOINTS**

#### **2.2.6. TOOLS FOR WOODWORK**

### **OTHER ENGINEERING LABS & WORKSHOPS**

#### **2.2.7. MECHANICAL LABORATORY AND WORKSHOP**

#### **2.2.8. CHEMICAL LABORATORY AND WORKSHOP**

#### **2.2.9. COMPUTER LABORATORY AND WORKSHOP**

#### **2.2.10. PETROLEUM LABORATORY AND WORKSHOP**

## **IUITS 202: Igbinedion University Industrial Training Scheme II      1 Credit**

A 6-week intensive training program within the university. Introductory lectures on engineering; Exposure and visits to engineering project sites both within the university; neighbourhood; and visit to engineering based establishments. Intensive industrial training in the university engineering workshops, etc. Students submit and defend reports at the end of the exercise. They also write examination.

### **9.3.3. 300 LEVEL COURSE STRUCTURE/CONTENT/DESCRIPTION**

#### **9.3.3.1.COMMON COURSES FOR 300 Level**

##### **EMA301:      Engineering Mathematics III      3 Credits**

- a) Linear Algebra: n-dimensional vectors, addition and scalar multiplication. Linear dependence and independence of set vectors. Matrices: operations of addition, scalar multiplication and product; determinants and their properties; sub-matrices and rank; inverse of a matrix. Theory of a system of linear equations, linear transformation and matrices; Eigenvalues and Eigenvectors of a matrix; Eigenvalues of Hermitian, skew Hermitian and unitary matrices; bilinear quadratic forms.
- b) Analytic geometry: Plane polar coordinates, coordinate transformation. Solid geometry and spheres and quadric surface. Spherical polar and cylindrical polar coordinates.
- c) Functions of several variables: Mean value theorem of function of several variables, maxima and minima, differentiation under the sign of integration. Jacobians.
- d) Numerical Analysis: Numerical differentiation and quadrature formulae. Analytic and numerical solution of ordinary differential equations. Curve fitting and least squares. Further on linear programming (simplex method).

##### **EMA302:      Engineering Mathematics IV      3 Credits**

- a) Fourier Series: Periodic functions. Euler formula for coefficients in Fourier sine/cosine series of a function. Even and odd functions and their Fourier series. Half range expansion. Theoretical basis of Fourier series. Application to the solution of partial differential equations.
- b) Gamma, Beta and probability function (emphasis rather on the applications).
- c) Differential Equation: Equations of the form  $y'' - f(x, y')$ . Linear second order equations reducible to linear equation with constant coefficients. Series solution of differential equation and Bessel functions of first kind; their properties and introduction to applications.
- d) Vector Field Theory: Scalar and Vector fields: directional derivative; gradient of a scalar field, divergence and curl of a vector field; del operator. Line, surface and volume integrals. Divergence theorem of Gases and Stoke's theorem. Green's theorem. Line integrals independent of path and irrational vector fields.

##### **GRE 331: Research Methodology and Technical Report Writing      2 Credits**

Principles of communication. Parts of technical reports: Abstract, introduction, Main body. Conclusions and Recommendations, Tables, Figures, Graphs, Illustration, References,

Appendices. Writing the first draft. Revising the first draft: Content and structure. Audiences Scientific and Technical Prose: Spelling and Scientific Terminology using numbers and symbols.

Data: Statistical analysis of data and display. Software support for various writing and graphic tasks. Use of Microsoft power point.

Preparation of curricula vitae, research grant proposals, short talks and poster, and feasibility report. Writing a thesis employed in marine environment.

### 9.3.3.2. 300 LEVEL COURSE STRUCTURE FIRST SEMESTER

Semester	S/No	Course Code	Course Title	L	T	P	Credit Units
<b>FIRST</b>	1	EMA 301	Engineering Mathematics III	2	1	-	3
	2.	GRE 331	Research Methods and Technical Report Writing	2	1	-	2
	3.	CVE 311	Theory of Structures	2	1	-	3
	4.	CVE 321	Civil Engineering Hydrology I	2	1	-	2
	5.	CVE 361	Fluid Mechanics II	2	1	-	2
	6.	CVE 331	Building Technology	2	1	-	2
	7.	CVE 351	Soil Mechanics	2	1	-	2
	8.	CVE 341	Engineering Geology 1	2	1	-	2
	9.	ELA 301	Eng. Lab / Workshop Practice III	-	-	6	3
	10.	EPS 311	Introduction to Entrepreneurship Studies	2	-	1	2
			<b>TOTAL CREDIT UNITS</b>				<b>23</b>

### SECOND SEMESTER

Semester	S/No	Course Code	Course Title	L	T	P	Credit Units
<b>SECOND</b>	1.	EMA 302	Engineering Mathematics IV	2	1	-	3
	2.	CVE 362	Fluid Mechanics II	2	1	-	2
	3.	CVE 312	Civil Eng Materials	2	1	-	3
	4.	CVE 322	Structural Mechanics I	2	1	-	2
	5.	CVE 332	Design of Structures I	2	1	1	3
	6.	CVE 342	Engineering Geology II	2	1	-	2
	7.	CVE 372	Engineering Survey and Geo-Informatics	2	1	1	3
	8.	ELA 302	Eng Laboratory / Workshop Practice IV	-	-	6	3
	9.	IUITS 302	Igbinedion University Industrial Training Scheme III	-	-	6	1
				<b>TOTAL CREDIT UNITS</b>			
			<b>GRAND TOTAL CREDIT UNITS</b>				<b>45</b>

**Note:** L = Lecture Hours/Week; T = Tutorial Hours/Week; P = Practical Hours/Week.

### 9.3.3.3. 300 LEVEL COURSE CONTENT/ DESCRIPTION

#### FIRST SEMESTER

##### CVE 311: Theory of Structures II (3 Credits)

1. Columns: Short columns (struts); Intermediate columns and slender columns. Fully restrained, partially restrained and unrestrained columns.
  - 1.1. Analysis of Columns: By Euler's Theoretical Formulae and Empirical Methods such as: Gordon Rankine's formula; Johnson's Parabolic and Straight line formula.
  - 1.2. Loading and Bending of Columns: Symmetrical and eccentric loading of columns and bending about one axis (uni-axial bending) and bending about two axes (tri-axial bending).
2. **Analysis of Trusses and Frames.**
  - 2.1. Determination of degree of indeterminacy or redundancy of trusses and frames.
  - 2.2. Analysis of Perfect or Statically Determinate Trusses and Frames. Calculation of external support reactions, internal forces (tension and compression) and deformation in bar members, using both analytical methods of joints ( $\sum F_v = 0$ ;  $\sum F_h = 0$ ) and method of sections or moment ( $\sum M = 0$ ) as well as graphical methods.
3. Advanced Treatment of Elastic Bending Theory of Beams: Shear center; unsymmetrical bending; curved beams.
4. Biaxial and Tri-axial state of stress: transformation of stresses; Mohr's circle;
5. Failure Theories.
6. Creep, Fatigue, Fracture and Stress concentration.
7. Springs.

##### CVE 321: Civil Engineering Hydrology I (2 Credits)

Introduction to Hydrology. Hydrological data collection and analysis. The hydrological cycle; Precipitation; Infiltration; Evaporation. Groundwater; Surface Run-off; Floods and Droughts; Hydrological Systems Analysis; Hydrograph Analysis. Unit Hydrograph Theory; Occurrence and Distribution of water in use. Hydrogeology. Fundamentals of Flow in Porous Media; Equations Governing flows in aquifer. Exact and approximate solutions; Flows in layered aquifer system.

##### CVE 361: Fluid Mechanics 1 (2 Credits)

Fundamental notions and definitions: Continuum property, density, pressure, specific volume, surface tension, viscous compressibility, etc.

Fluid Statics: Hydrostatic forces on submerged surfaces in non-compressible fluid, pressure variation in static fluid, floating, stability considerations of floating bodies.

Dynamics of Fluid Flow: Systems and control volume approach to the basic and subsidiary laws for continuous media leading to the development of conservation equation of mass and momentum. Euler's equation, Bernoulli's equation, introduction to incompressible viscous flow of Newtonian fluids in pipes – pressure drop and shear stress in pipe flows, velocity distribution, Reynolds number and its significance.

Dimensional Analysis: Philosophy of dimensional analysis in engineering, dimensional homogeneity, similitude, bucking hands,  $\Pi$  – Theorem, important dimensionless groups in engineering.

Flow Measurements: Flow meters and Flow measurement, head flow meters in closed and open conduits, mechanical and electromagnetic flow meters, scale errors in flow measurement.

**CVE 331: BUILDING TECHNOLOGY 2 Credits**

**1.1. General Introduction**

**1.2. Types of Building Structures:**

1.2.1. Residential Buildings:- Storey buildings; duplex; special residential buildings

1.2.2. Institutional Buildings: such as schools; hospitals; hotels; churches; mosques; central bank; royal palaces; special residential buildings; etc.

1.2.3. Commercial Buildings: such as shopping malls; light weight ware houses; garages; commercial banks

1.2.4. Industrial Buildings: such as: manufacturing building structures; heavy weight ware houses

**2. Structural Elements of Buildings and Basics of Building Construction**

2.1.1. Building Orientation with respect to conducive living conditions and other building functions such as: Sunlight; lighting; ventilation, wind direction (windward and leeward sides); aesthetics purposes; etc

2.1.2. Building right of way: such percentage built up areas; building lines; local bye laws; water ways; electrical power lines; etc.

**2.2. Introduction to Basic Structural Elements of Buildings:** such as slabs; beams; columns; foundations types – strip (wall) footing; pad footing; mat footing; piles, etc;

**Floor types:** earth floor; concrete floor; wooden floor; plastering

**Floor Surface finishings** with such tile types as: terrazzo; mosaics; ceramics; duroflex (PVC); etc

**Wall:** types; rendering or plastering; painting; other finishings;

**Blocks and Bricks and Bonding (block works)**

**Roof types: pitched roofs; flat roofs; slab roofs; trusses** such as simple trusses; Howe trusses; girders etc

**Cladding and Roofing Sheets;**

**Ceiling: noggins; ceiling boards; fascia board; etc**

**2.3. Aspects of Building Construction**

**2.3.1. Clearing Building Project Sites** with such equipment as: bulldozers; manual labour; disposals etc

2.3.2. Preliminary site investigation and tests

2.3.3 Setting out of buildings with such instruments as: profiles; set squares; right angles; pegs; theodolites, etc.

**2.3.4. Earthworks:** excavation and disposal for the **Substructure**; **Soil stabilization**; haulage of appropriate materials from approved borrow pits; filling (embankment); compacting; etc

**2.3.5. Levelling; Preparation and Blinding of the Substructure Soil Surface** with plain concrete (grade 10)

**2.4. Concrete works; making foundation; DPC; making formworks and casting or constructing such structural elements as columns; beam soffits; slabs; walls; floors; roofs; finishing; etc.**

**CVE 361: Fluid Mechanics 1**

**(2 Credits)**



Fundamental notions and definitions: Continuum property, density, pressure, specific volume, surface tension, viscous compressibility, etc.

Fluid Statics: Hydrostatic forces on submerged surfaces in non-compressible fluid, pressure variation in static fluid, floating, stability considerations of floating bodies.

Dynamics of Fluid Flow: Systems and control volume approach to the basic and subsidiary laws for continuous media leading to the development of conservation equation of mass and momentum. Euler's equation, Bernoulli's equation, introduction to incompressible viscous flow of Newtonian fluids in pipes – pressure drop and shear stress in pipe flows, velocity distribution, Reynolds number and its significance.

Dimensional Analysis: Philosophy of dimensional analysis in engineering, dimensional homogeneity, similitude, bucking hands,  $\Pi$  – Theorem, important dimensionless groups in engineering.

Flow Measurements: Flow meters and Flow measurement, head flow meters in closed and open conduits, mechanical and electromagnetic flow meters, scale errors in flow measurement.

## **CVE 351: SOIL MECHANICS**

**2 Credits**

1. Introduction:
- 1.1. Definition(s) of Soil:  
Civil Engineer's definition of soil; Geologist definition of soil; Agriculturalist soil definition.
- 1.2. Nature and Origin of Soil and Rocks:  
Mineral content of soil; common types of soils: clay, silt, loamy soil, sand, gravel, etc.
2. Engineering Properties of Soil:
  - 2.1. Volumetric Properties of Soil: Void ratio ( $e$ ); porosity ( $n$ ); degree of saturation ( $S_r$ ).
  - 2.2. Densities and Water Contents of Soil:
    - 2.2.1. Soil Densities: Density ( $\rho$ ) and Unit weight ; Bulk unit weight and density; Dry unit weight and density, specific gravity of soil particle ( $G_s$ ). Relative Density (R.D.) Relationship between unit weights and densities of soil.
    - 2.2.2. **Moisture Content (W):**  
Laboratory test for moisture content; relationship between moisture content; density ; specific gravity , and degree of saturation ; cone penetration test.
3. Consistency Limits or Index Tests of Soils:  
Shrinkage Limit (SL); liquid limit (L. L) and liquidity index (IL.); plastic limit (P.L.) and plasticity index (PI.).
4. **Soil Classification (Grading):**
  - (i) General Basis for field identification and classification of soils.
  - (ii) Laboratory and in situ classification of soil.
  - (iii) Casagrande soil classification system (GW-SW)
    - i. Particle size Distribution/Gradation: sieve analysis. Effective size ( $D_{10}$ ), uniformity coefficient (U.C.).
    - ii. Hydrometer Tests and Analysis for very fine soils.
5. **Shear Strength of Soils:**  
Laboratory testing for shear strength (shear box test); soil friction and cohesion; Coulomb's Law of soil shear strength; pure pressure; Mohr's circle diagram and principal plane for soil; soil strength envelopes.
6. **Soil Water, Permeability and Flow:**
  - (i) Flow of water through soils and Darcy's Law; coefficient of permeability (K).
  - (ii) Relationship between permeability and other soil physical properties.

- (ii) Graphical solution of seepage problems – Flow nets, Flow lines, equip of entail lines, Hydraulic gradient; seepage forces.

**7. Earth Pressure:**

Active and passive earth pressure; surcharge loads and overburden loads, etc. Retaining walls.

**CVE 341: Engineering Geology I (3 credits)**

- (i) Introduction: Definition, scope and subdivision of geology. Aspects of geology and their relevance to Civil Engineering, Brief discussion on the origin and evolution of the planets, the earth and its relations to the sun, and other planets.
- (ii) Structure and Composition of the Earth: The core, the mantle and the crust. Composition of the various layers. Radioactivity and magnetism of some rocks and minerals.
- (iii) Geological processes:
- (a) Exogenic processes (weathering and erosion)
- (b) Endogenic processes (Magma – its origin, Crystallization. Differential and solidification into rocks, earth quakes, volcanoes, rifting and continental drifts).
- (iv) Geotectonic Processes:
- folding, faulting, joining and rifting
  - isostasy, changes in crustal sea levels, causes and effects
  - transgression and regression
  - tectonic and sedimentation

Geological structure and mapping. Rocks and minerals. Stratigraphy – time scale – fossils and their importance: special reference to Nigeria. Introduction to geology of Nigeria. Engineering Application – water supply, site investigation – Dams, dykes, etc.

**EPS 311: Introduction to Entrepreneurship Studies**

**2 Credits**

This is the practical part of the programme, where students should be exposed to live ventures. This course is in two folds:

[A]. Theoretical bits to prepare students for the basics of the identified micro-business and industries within the university locality or nearby environs. (We propose the first four weeks of the 1<sup>st</sup> Semester).

[B]. The practical bits. This would be done in three different stages:

- I. Demonstrations/Exhibitions.
- II. Excursions for students, to visit owner – operated businesses – within the locality, neighbouring states – including national and international corporations where possible; such as Technology Incubation Centre (TIC) located in Benin City and;
- III. Mentoring scheme, in which mentors from within the university locality and neighbouring communities would be identified, contacted registered as a pool of counselors, to whom graduating students, who wish to participate in the scheme would go for mentoring.

Some of the ventures to be focused upon would be tailored along students' primary courses of studies. These would include, but not limited to:

- Owning/management your clinic/diagnostic laboratory/law firm.
- Soap/detergent/tooth brushes and toothpaste making firm
- Making of sanitary wares
- Glassware production/ceramic production
- Animal husbandry

- Dyeing/textile making
- Brewing
- Table water making factories
- Plumbing
- Vegetable oil and salt extraction factories
- Fisheries

### **ELA 301: CIVIL ENGINEERING LABORATORY & WORKSHOP III 3 Credits**

Laboratory investigations and report submission for selected experiments in Engineering materials and hydraulics.

#### **3.1. ELA 301 COURSE CONTENTS OUTLINES**

##### **I. STRUCTURAL UNIT**

- 3.1.1. NO.1: DETERMINATION OF PRACTICAL SIZE OF AGGREGATE (SIEVE ANALYSIS)
- 3.1.2. NO.1: SETTING TIME OF CEMENT
- 3.1.3. NO.1: AGGREGATE CRUSHING VALUE

##### **II. ENGINEERING SURVEYING AND GEO INFORMATICS UNIT**

- 3.1.4. NO.4: CHAIN SURVEYING

##### **III. GEOTECHNICAL & HIGHWAY UNIT**

- 3.1.5. NO. 5: MOISTURE CONTENT TEST
- 3.1.6. NO. 6: GRAIN SIZE ANALYSIS
- 3.1.7. NO. 7: SPECIFIC GRAVITY TEST

##### **IV. WATER RESOURCES AND ENVIRONMENTAL UNIT**

- 3.1.8. NO.8: PREPARATION OF REAGENTS AND SAMPLE SOLUTION
- 3.1.9. NO.9: SOLID DETERMINATION
- 3.1.10. NO.10: DETERMINATION OF COLOUR OF WATER
- 3.1.11. NO.11: DETERMINATION OF TASTE IN WATER SAMPLE
- 3.1.12. NO.12: EVALUATION OF ODOUR USING THE THRESHOLD ODOUR NUMBER
- 3.1.13. NO.13: MEASUREMENT OF WATER PH SAMPLE
- 3.1.14. NO.14: SEDIMENTATION DEMONSTRATION
- 3.1.15. NO.15: STUDIES OF VARIOUS FUNCTIONS OF SOUND METERS
- 3.1.16. NO.16: UNSTEADY FLOW IN SURGE CHAMBER
- 3.1.17. NO.17: TRANSITION OF LAMINAR

#### **SECOND SEMESTER 300 LEVEL COURSES**

##### **CVE 312: CIVIL ENGINEERING (2 Credits)**

##### **Section A: Timber / Wood Technology**

- 1.1. (a) Methods for efficient utilization of saw dust generated in saw mill in Okada and environs.
- 1.1. (b) Methods for efficient use of charcoal being wasted in saw mill industry.
- 1.1. (c) Problems caused by timber logging activities in Okada and environs.
- 1.1. (d) Problems militating against saw mill industry in Okada and environs.
- 1.2. **Two Main Botanical Classification or Grouping of Timber**
- 1.2 (a) Types of soft wood and their local names as well as their uses.

1.2 (b). Types of hard wood and their local names as well as their uses.

### 1.3. Defects of Timber

1.3.1. Enemies of timber.

1.4. Types of wood preservatives

1.5. Seasoning of timber.

## Section B: Admixtures

2.1. (a) Types and uses of admixtures.

### 2.2. Bonding Admixtures.

## Section C: Cement Technology

3.1. Manufacturing or production process of Ordinary Portland Cement.

3.2. Basic chemical constituent materials of Ordinary Portland Cement.

3.3. Cement manufacturing industry in Nigeria and where they are located.

3.4. Types of cement and their uses and where they are suitably used.

3.5. Properties of cement:

## Section D: AGGREGATES

4.1. Types of Aggregate and three (3) main classes of aggregates.

4.2. Shapes of aggregates.

4.3. Six (6) surface texture of aggregates.

4.4. **Gradation of Crushed Aggregate Sizes.**

4.4.1. Sieve Analysis for grading of Crushed Aggregate Sizes.

Determination of cumulative percentage aggregate retained; passing in each sieve.

(a) Determination of cumulative percentage aggregate in each sieve.

(b) Plotting of BS Sieve Aggregate size against cumulative percentage.

4.4.2. Mean equivalent diameter.

4.4.3. Determination of Aggregate Grading Modulus; G.

4.5. **Types of destructive tests for hardened concrete.**

## Section E: Concrete Technology

5.1. Types of polymer concrete and their properties.

5.2. Environmental factors which influence workability of fresh concrete.

5.3. **Methods of Concrete Mix Design (Proportions)**

5.3.1. Batching by volume; (b) Batching by weight; (c) Quartering.

5.3.2. Water - cement ratio.

5.4. **Properties of Fresh Concrete:** (a) Consistency; (b) Mobility; (c) Compactibility ..

5.5. Tests (such as Slump Test; etc) commonly used for determining quality or workability of fresh concrete.

5.6. Factors which affect workability of fresh concrete.

5.7. Weakness or problems which take place in fresh concrete

5.8. **Chemicals** which attack concrete

5.9. Estimation of thermal stress, strain and contraction and elongation in concrete structures.

5.10. Types of equipment used for **non-destructive tests of hardened concrete.**

5.11. Determination of **mean** concrete cube compressive strength;  $f_{cm}$  ( $N/mm^2$ ); **standard deviation**. compressive strength (SD) and **characteristic** concrete cube compressive strength;  $f_{cu}$  ( $N/mm^2$ ).

5.12. Concrete Mix Design and Quality Control.

## Section F: Concrete Block

- 6.1. Constituent materials** of concrete block.
- 6.2. Types of concrete block; and Work sizes of concrete block.**
- 6.3. Difference** between concrete block and clay brick.
- 6.4. Manufacturing or Production Processes of Concrete Block.**
- 6.5. Properties of Concrete Block.**
- 6.6. Determination of:** (a) Total U-value in thermal conductivity of concrete block and bricks and its use in building design and construction; (b) Total Thermal Resistance; (R); and (c) Total Thermal Transmittance (U).

## **SECTION G: Engineering Bricks: Clay and Calcium Silicate Bricks**

- 7.1. Constituent materials of :** (a) Clay brick; and (b) Calcium silicate brick.
- 7.2. Types of clay (called Alumino-silicate clays) used in making bricks**
- 7.3. Method or processes involved in making clay.**
- 7.4. Work sizes of clay bricks.**
- 7.5. Manufacturing or Production Processes of Concrete Block.**
- 7.6. Properties of Concrete Brick.**
- 7.6. Environmental problems which affect Bricks.**

## **Section H: Bitumen / Asphalt Technology**

- 8.1. Definition of Bitumen and Asphalt.**
- 8.2. Constituent materials of Bitumen and Asphalt.**
- 8.3. Mix Properties of Bitumen.**
- 8.4. Mix Properties of Asphalt; and Comparison between asphalt and bitumen.**
- 8.5. Methods of determining or measuring Dynamic Viscosity of Bitumen**
- 8.6. Weakness of Bitumen-Aggregate Mixes (such as fatigue; fracture).**
- 8.7.1. Penetration Test for measuring Consistency and Hardness of Bitumen.**
- 8.7.2. Tests (such as Ring & Ball Test) used in determining “Softening Point (SP) of Bitumen.**
- 8.7.3. Penetration Index (PI)**
- 8.7.4. Flash Point of Bitumen (FP) and Break Point (BP) of Bitumen and Fraass Break Point” (FBP)**

## **Section G: POLYMER / PLASTICS / CERAMIC MATERIALS**

- 9.1. Properties and classes of main polymer materials used in civil engineering.**
- 9.2. Classes of polymer materials used in making Trunk Water Distribution Pipes (or Mains).**
- 9.3. Uses of Unsaturated Polymer.**
- 9.4. Properties of polymer**
- 9.5. Uses of ceramics.**
- 9.6. Common uses of plastics and ceramics.**

## **Section H: Steel Technology**

- 10.1. Steel Technology: Production, fabrication and properties: corrosion and its prevention. Tests on steel and quality control.**

## **Section I: Miscellaneous Materials**

- 11.1. Types/Uses of Tiles: Terrazo tiles; Mosaic tiles; Ceramic tiles; PVC tiles; Interlocking tiles, etc.**
- 11.2. Isotropic and anisotropic materials.**
- 11.3. Suitable materials that can be used for road stabilization.**
- 11.4. Suitable construction materials for seismic prone areas.**

**CVE 322: Structural Mechanics I (3 Credits)**

1. **Theory and analysis of determinate structures:** beams, trusses and frames structures theorems. Analytical and graphical methods
2. **Deformation (slope and deflection) of statically determinate structures:-**
  - (i) unit load method; (ii) moment area method; (iii) conjugate beam method.
  - (iv) Strain energy methods etc
3. **Analysis of Statically Indeterminate Structures**
  - (i) Introduction to statically indeterminate structures.
  - (ii) Analysis of simple statically indeterminate structures:- continuous beams, encastre, propped beams, simple portal frames by such methods as Le Claypeyron's Three Moment Theorem, Slope Deflection Equations; Moment Distribution Method (Hardy Cross); Modified Pin Method, etc.

**CVE 332: Design of Steel Structures I (3 Credits)**

- (i) Basic Concepts and Fundamentals of design process, materials selection, building regulations and codes of practice. Design Codes (BS 59500; 5268)
  - (ii) Design philosophy, elastic design: limit state design.
  - (iii) Basic serviceability and economy.
  - (iv) Estimation of Dead load; Live Load; Design Load.
  - (v) Design of various structural members, namely: beams, columns, slabs, ties, struts, foundation, etc. Consider various shapes of structural members: Universal beams I-Sections; Joists; Universal Columns (H-Sections); Channel sections; Angle (L-Sections); etc; Carrying out necessary checks.
  - (vi) Design of Shear Connectors: Gusset plates and; bolts ; rivets, connections and joints, etc.
  - (vii) Design of stiffeners, etc.
- Laboratory tests on structural elements in Steel.
- (viii) Wind Loading; Incorporating wind loading in design of structural elements such as roofs walls; and tall columns.

**CVE 362: Fluid Mechanics II (2 Credits)**

Viscous flow theory; mechanism of viscosity, equations of motions for viscous Newtonian fluids. Navier – Stokes equation for laminar flows: simplified forms and some exact solution. Laminar velocity distribution. Elementary channel flow. Introduction to turbulence. Some applications of viscous flow theory; the viscometer, hydrodynamic lubrication, ideal flow theory: introduction to the concepts of circulation, irrotationality, velocity potential and stream functions. In viscid equations in general forms: Boundary conditions for in viscid flow, Poisson and Lap-lace equations and their elementary solutions; Elementary flows and principle of super position. Lift and drag on cylinder. D'Alembert's paradox. Kutta-Jukowecki condition. Introduction to Aerofoil theory. Power Systems and mechanical equipments: Mechanical power systems, their applications and operations. Drive requirements for: pumps, fans, machines tool cranes.

**CVE 342: ENGINEERING GEOLOGY II 3 Credits**

1. Stratigraphy
  - historic geology and Stratigraphy (the age of the earth, geologic aged)
  - geological time scale, measuring geological time
  - fossil records (keys to the past, the records left on rocks by fossils)
  - importance of fossils, type of fossil unconformities)
2. Introduction to the Geology of Nigeria:
  - the basement complex
  - the cretaceous and younger sedimentary rocks

- major soil types and their distribution
- 3. Mineral Resources of the Earth
  - definition and physical properties of minerals
  - mineral types, fossil fuels, organic minerals, non-metallic minerals and rocks, metallic minerals
  - mineral resources of Nigeria with particular emphasis on discussion on petroleum as to its origin, physical state of the hydrocarbons, migration, accumulation and exploitation.
  - Mineral in the economy of Nigeria

### **CVE 372: ENGINEERING SURVEYING & GEO-INFORMATICS (2 Credits)**

Introduction: Traversing – instruments for traversing, theodolite traverses, computation and adjustment of ordinary traverses. Bow ditch and transit methods, reduced bearings and whole circle bearings. Uses of hand calculators and computers writing of basic programme for traverse and levels.

Application of traverses to setting out of tunnels, pipelines, etc. Tacheometry methods for inclined line of sights. Substance heightening: study of self-reducing tachometers and electronic distance measuring equipment.

Trigonometric heightening – reciprocal and simultaneous reciprocal observations. Introduction to Photogrammetry and remote sensing. Practical work. Chain surveying exercises, compass traverses, running lines of levels and elementary sectioning and theodolite task.

### **ELA 302: LABORATORY & WORKSHOP PRACTICE IV 3 Credits**

Laboratory investigations and report submission for selected experiments in Civil Engineering and soil Mechanics. Laboratory and course work

### **3.2. ELA 302: ENGINEERING LABORATORY & WORKSHOP IV 3 CREDITS**

#### **ELA 302 COURSE CONTENTS OUTLINES**

#### **I. STRUCTURAL UNIT**

3.2.1. NO.1: AGGREGATE IMPACT VALUE TEST

3.2.2. NO.2: WORKABILITY

#### **II. ENGINEERING SURVEYING AND GEO INFORMATICS UNIT**

3.2.3. LEVELING

3.2.4. ELEMENTS OF SURVEY

3.2.5. THE LEVELING STAFF

3.2.6. PRODUCE IN LEVELING

3.2.7. BOOKING

3.2.8. USES OF LEVEL

#### **III. GEOTECHNICAL & HIGHWAY UNIT**

3.2.9. NO.4: CONSISTENCY LIMIT AND INDICES

3.2.10. INTRODUCTION

3.2.11. DEFINITION

3.2.12. APPARATUS AND SUPPLIES

3.2.13. PROCEDURE

3.2.14. LIQUID LIMIT

3.2.15. LIQUID LIMIT (USING CONE PENETROMETER)





<b>FIRST</b>		CVE 431	Design of Structures				
		CVE 441	Soil Mechanics /Foundation Eng I				
		CVE 451	Highway & Transportation Engineering I				
		CVE 461	Engineering Surveys And Geo - Informatics				
		CVE 471	Civil Engineering Practice and Law				
		CVE 481	Public Health Engineering I				
		ELA 401	Eng Laboratory and Workshop Practice IV				
			<b>TOTAL CREDIT UNITS</b>				
			<b>SECOND SEMESTER</b>				
		IUITS 402	Igbinedion University Industrial Training Scheme IV				
<b>SECOND</b>			<b>2<sup>ND</sup> SEM TOTAL CREDIT UNITS</b>				
			<b>GRAND TOTAL CREDIT UNITS</b>				

**Note:** L = Lecture Hours/Week; T = Tutorial Hours/Week; P = Practical Hours/Week.

### 9.3.4.3. 400 LEVEL COURSE CONTENT / DESCRIPTION FIRST SEMESTER

#### **CVE 411: STRUCTURAL MECHANICS II (2 Credits)**

- i. Indeterminate structured analysis: energy and virtual work methods, slope deflection and moment distribution methods.
- ii. Flexibility and stiffness methods
- iii. Elastic instability
- iv. Simple plastic theory of bending, collapsed loads
- v. Stress grading of timber: visual, mechanical, and electronic

#### **CVE 421: HYDRAULICS III (3 Credits)**

Dimensional Analysis. Similitude and Hydraulic Models. Laminar Flow. Turbulent Flow. Stream function, velocity potential and application to flow nets. Steady Flow in Closed Conduits. Unsteady Flow in Conduit: Pumps.Turbines. Boundary layer separation lift and draft. Land drainage and inland navigation problems.

#### **CVE 481 PUBLIC HEALTH ENGINEERING I**

**2 Credits**

#### **CVE 481 Public Health Engineering I**

**2 Credits**

### **1. General Introduction to Wastewater Management**

1.1. Types of Wastes normally generated

1.2. Impact of waste water on the environment

1.3. BOD, Dissolved Oxygen, Solubility and De-oxygenation of surface water (streams, rivers)

1.4. Water Pollution, Environmental Effects and Controls

1.5. Self Purification Capacity of Rivers and Streams

1.6. Wastewater (Effluent) Quality and Standards

## **2. Basic Microbiology of Waste Management:**

1.1. Types of waste borne micro-organisms (bacteria, protozoa, virus, amoeba, spirogyra, algae, fungus, etc). Pathogenic microorganisms, etc.

1.2. Phases of bacterial growth

1.3. Water borne diseases and controls

3. Structure and growth of microorganisms; Sterilization and culture techniques; water use and water related diseases; Physical, chemical and biological characteristics of water and waste water – their determination and significance; Appropriate technology of water supply and treatment; coagulation; sedimentation; flocculation; filtration; disinfection; storage and distribution, etc. Appropriate technology for excreta disposal (septic tank; Imhoff Tank; WACT; pit latrines; oxidation ponds, etc).

## **4.0. Types of Wastes normally generated**

Impact of waste water on the environment

BOD, Dissolved Oxygen, Solubility and De-oxygenation of surface water (streams, rivers)

Water Pollution, Environmental Effects and Controls

Self Purification Capacity of Rivers and Streams

Wastewater (Effluent) Quality and Standards

## **5.0. Basic Microbiology of Waste Management:**

Types of waste borne micro-organisms (bacteria, protozoa, virus, amoeba, spirogyra, algae, fungus, etc). Pathogenic microorganisms, etc.

- Phases of bacterial growth

- Water borne diseases and controls

**Waste water (Sewage):** Source and effects of pollution; water and effluent standards and controls.

Agents of air pollution and – Effects and controls

Management and finance of PHE systems.

Culturing Microorganisms, determining live bacteria in water, estimating BOD, TOD; COD. inhibitors, catalysts, Kinetics of Biodegradation; first and second order differential equations; etc; Principles of small scale waste water management.

## **CVE 431: DESIGN OF STRUCTURES II (3 Credits)**

- Limit state philosophy and design in steel; elastic and elastic moment design.
- Design of structural elements in steel and connections and joints
- Limit state philosophy and design in timber elastic methods and design in timber.
- Laboratory tests on structural elements in concrete, timber and steel.
- Design of connections. Introduction to pre-stressed concrete design.

## **CVE 441: SOIL MECHANICS / FOUNDATION ENGINEERING I (3 Credits)**

## **CVE 451: Highway & Transportation Engineering I (3 Credits)**

### **1. General Introduction to Transportation**

1.1. Role and importance of transportation in national and socio-economic development..

1.2. Means of transportation: (i) By Road (ii); By Railways; (iii) By Waterways; (iv) and by Airways.

2. History of Road Development. Early development of Tarmacadam, Metcaf, Highway and Macadam construction, modern development.

2.1. Types and Classification of Highway: (i) Access road; (ii) Avenue; (iii) Boulevard; (iv) Cul-de-sac; (v) Federal roads; etc. (vi) Streets; (vii) Dead end Street; etc.

2.2. **Classification of roads based on functions:**

(a) Trunk A Road (or Federal Road); (b) Trunk B Road (or State Road); and

(c) Trunk C Road (or Local Government Road).

3. **Traffic Engineering**

3.1. Characteristics of traffic (speed studies, delay studies, origin and destination studies and traffic composition studies, etc.)

3.2. Traffic operations; Control and Operations.

3.3. Planning and Analysis.

3.4. Administration and Management.

4.0. **Aspects of Highway Planning**

4.1. Highway Geometric Alignment.

4.2. Aims and Objectives of Highway Geometric Alignment.

4.3. Factors affecting safety and comfort of motorist

4.4. Use of Engineering surveying and geo-informatics in setting out road.

4.5. Horizontal Alignment.

4.5.1. Types of Road Curves.

4.5.2. Design and Setting out Road Main Curves and Transition Curves.

4.6. Analysis, design of Vertical Alignment.

5. Origin and Destination Studies, Parks, Accident Studies and Prevention Measures.

6. **Highway Pavement**

6.1. Highway construction materials.

6.2. Highway construction materials (sub –base course; road base course; top wearing course).

6.3. Basic Highway Engineering Soil Mechanics and Soil Tests.

6.4. Types of Road Pavement (Flexible Road Pavement and Rigid Road Pavement).

6.5. Layers and structural elements of flexible road pavement (sub-grade; sub-base; road base and top surface wearing course).

6.6. Types of Flexible Road Pavement (Bituminous and Asphalt Surfaced Roads).

6.7. Analysis and Design of Flexible Road Pavement by the following methods:

(a) CBR Method; (b) British Design Approach; etc.

6.8. Recent Federal Highway Manual Design Charts and Regulations.

7.0. **Street Lighting.**

8.0. **Failure of Road Pavement and Maintenance.**

8.1. Immediate and Remote Causes of Failure of Road Pavement.

8.2. Remedial Measures of Failure of Road Pavement.

8.3. Road Maintenance.

9.0. Establishment and Function of FERMA.

**CVE 461: Engineering Survey and Geo-Informatics (3 Credits)**

1. Further works on contours and contouring. Various methods of contouring – direct and indirect, contour interpolation issues of contour plans and maps.
2. Areas and Volumes. Longitudinal and cross-sectional profiling formation levels of new roads, cut and fills and various other sections. Determination of areas by approximate methods, area by double mention distance method. Volumes of earthwork – the prismatic method, Edo – Area rule and the prismatic correction.
3. Setting Out and Monitoring of Engineering Works:

Techniques for various works, baselines, sewers and drains. Highways – horizontal curves, vertical and transition curves. Setting out of buildings lines and vertical alignment of buildings. Setting out of dams and bridges. Monitoring of ground and structures.

4. Elementary Topographical Survey: Introduction to photogrammetry – aerial and ground photographs, vertical and near vertical photographs and the appropriate geometric relationship, causes of distortions, uses of aerial photographs for the production of plans – by Arundel method and by the use of photogrammetric equipment. Heighting from aerial photographs – application to contouring and profiling. Introduction to remote sensing equipment, image transmission from space, digital imagery. Compilation of topographic maps and plans from data acquired by the Landsat and SPOT satellites. Uses of photogrammetry and remote sensing to the engineers. Digital terrain modeling and applications.
5. Practical Work includes: More detailed theodolite reversing and minor triangulations, plane tablings exercises for detail survey and setting out of works; longitudinal and cross-section profiling, concept of parallax-use of parallax bar for height measurements; setting out of horizontal curves and building curves, plotting from aerial photographs and heighting and contouring.

**CVE 471: Civil Engineering Practice and Law (3 Credits)**

1. Civil Engineering works standard and measurements. Civil Engineering Quantities, legal, professional and ethical aspects of engineering.
- 1.2. Problems And Challenges Facing Consulting Services and Constructing Industry**
- 2. Three Parties Involved in Civil Engineering Contract.**
  - 2.1 Client (Promoter)
    - 2.1.1 Category of Client
  - 2.2 Consultants (Design Team)
  - 2.3 Contractor (Construction Team)
  - 2.4 Design and Build
    - 2.3.1 Categories of Contractor
  - 2.5 Organizational Structure of a Company
- 3. Preparation of Company Prequalification File and Brochure**
  - 3.1 Technical and financial proposals
- 4. Types of Contract**
- 5. BEME (Bill of Engineering Measure material and Evaluation) or BOQ.**
- 6. Bidding (Tender)**
  - 6.1. Definition of Bid or Tender
  - 6.2 Types of Tender ( Bid).
  - 6.3 Bid Evaluation Process
- 7. Terms Associated with Civil Engineering Contract.**
  - 7.1 Aids Memoire
  - 7.2 Force Majeure
  - 7.3 Variation
  - 7.4. As-Built Drawing
  - 7.5. Project Construction Form (PCF)
  - 7.6 Collateral
    1. 7.7 Loan and Grant
  - 7.8. Moratorium (Grace Period), etc.
- 8. Agreement and Memorandum of Understanding.**

**9. Breach of Contract and Litigation.**

**10. Further Terms Connected with Civil Engineering Practice**

**10.1.** Explanation; ( list of parties involved in ) and features of the following Terms Connected with Civil Engineering Practice:

(a) (i) Bill of Exchange; (ii) Draft; (iii) Check; (iv) Promissory Notes;  
(v) Negotiable Instruments.

**10.2.** Clear Distinction between each terms listed above.

**11. Engineering national and international Bodies NSE, COREN; WFE, FIDIC, etc.**

**12. Work and Project Implementation Schedule**

**13. Project Construction Process**

**14. Project Management**

2. Job planning and control – Programme charts – bar charts critical path methods  
Project Evaluation & Review Technique (PERT), etc.

3. Construction machinery and equipment.

4. Applications/case study – dams, foundations, bridges, highways, industrial buildings, sewage works.

**5. Legal Aspects of Civil Engineering Profession**

(a) General Introduction to Common Law and Contracts

(b) Formation of Contract Offer and Acceptance, Consideration,

(c) Conditions of Contract; Memoranda of Understanding and Forms of agreement

(d) Nature of Building Contract; Terms of Tender; Standard forms; Bill of Engineering Measurement and Evaluation (Bills of Quantities).

(e) Force Majeure and Breach of Contract

Engr. Avemaria Matthew Eze; MNSE

**ELA 401: ENGINEERING LABORATORY & WORKSHOP PRACTICE V 3 CREDITS**

Laboratory investigation and reports submission for selected experiments in Environmental Engineering and Transportation Engineering drawn from prescribed relevant topics in selected areas.

**ELA 401 COURSE CONTENTS OUTLINES**

**I. STRUCTURAL UNIT**

4.1.1. NO.1 CONCRETE MIX DESIGN

4.1.2. NO.2 COMPRESSION TEST ON CONCRETE

4.1.3. NO.3 TENSILE STRENGTH TEST OF REINFORCEMENT

4.1.4. NO.4 PULL TEST

4.1.5. NO.5 TEST ON TIMBER

**II. ENGINEERING SURVEYING AND GEO INFORMATICS UNIT**

4.1.6. NO.6 THEODOLITE

**III. GEOTECHNICAL & HIGHWAY UNIT**

4.1.7. NO.7 IN-SITU DENSITY TEST

4.1.8. NO.8 COMPACTION TEST

4.1.9. NO.9 PERMEABILITY TEST

4.1.10. NO.10 SOIL COLLECTION FOR LABORATORY ANALYSIS

4.1.12. NO.11 IDENTIFICATION OF SOIL FOR ENGINEERING PURPOSE

#### **IV. WATER RESOURCES AND ENVIRONMENTAL UNIT**

4.1.13. NO.12 ADSORPTION EQUILIBRIUM

4.1.14. NO.13 COLOUR ADSORPTION USING ACTIVATED CARBON

4.1.15. NO.14 DETERMINATION OF ACIDITY OF WATER SAMPLE

4.1.16. NO.15 DETERMINATION OF CARBONATE AND BICARBONATE IN WATER

4.1.17. NO.16 EVALUATION OF THE CONDUCTIVITY OF WATER SAMPLE

4.1.18. NO.17 DETERMINATION OF CARBON DIOXIDE IN WATER

4.1.19. NO.18 DETERMINATION OF CARBONATE AND BICARBONATE IN WATER

4.1.20. NO.19 DETERMINATION OF PHOSPHATE CONCENTRATION IN WATER

4.1.21. NO.20 TRANSMISSION LOSS OF PANEL

4.1.22. NO.21 AIR FLOW MEASUREMENT

4.1.23. NO.22 TURBINE CHARACTERISTICS FROM AN IMPULSE TURBINE

4.1.24. NO.23 PERFORMANCE CHARACTERISTICS OF FRANCIS TURBINE

#### **EPS 411 Introduction to Entrepreneurial Studies**

**2 Credits**

Art and Science of becoming a Civil Engineer; managing a small civil engineering firm and employing labourers; exploiting locally available materials for use as building materials; production of local bricks ; use of cheap labour to do work; mobilizing community effort, etc

#### **SECOND SEMESTER 400 LEVEL COURSES**

##### **IUTS 402: Igbinedion University Industrial Training Scheme IV 6 Credits**

A 6-month intensive training program in engineering based establishments (SIWES). Students submit and defend reports at the end of the exercise. They also write examination. The College of engineering has elaborate and well coordinated SIWES program.

#### **9.3.5. 500 LEVEL COURSE STRUCTURE / CONTENTS / DESCRIPTION**

##### **9.3.5.1. 500 LEVEL COMMON COURSES**

##### **GRE 501: Engineering Management I**

**3 Credits**

**The Management Environment** - Formation of a company, sources of finance, money and credit. Insurance. National policies, GNP growth rate and prediction. Balance of payments. Legal liabilities under company law, legal and contractual obligations to employees and the public, contractual obligations.

**Organizational Management** – Principles of organization, span of control. Elements of organization. Types. Principles of management. Schools of thought. Management by objectives.

**Financial Management** - Accounting methods. Financial statement. Elements of costing.

Cost planning and control. Budget and budgetary control. Cost reduction programmes.

Depreciation accounting, valuation of assets.

**Personnel Management** – Selection, recruitment and training. Job evaluation. Merit rating. Incentive schemes. Trade unions and collective bargaining.

**Industrial Psychology** – Individual and Group behaviour. The learning process. Motivation and Morale. Influence of the industrial Environment.

**Engineering Economy: Assessment of Economic Viability of engineering projects (the are capital intensive), using such methods as: Benefit Cost Ratio; Internal Rate of Return; Short term rate method, etc. Appraisal of financial implications of engineering projects before implementation.**

##### **GRE 502: Engineering Management II**

**3 Credits**

**Resource Management:** Materials management. Purchasing methods. Contracts. Stores and Inventory Control. Resource Utilization. Time value of money. Interest formulae. Rate of return. Methods of economic evaluation. Selection between alternatives. Planning Decision-making Forecasting, Planning, Scheduling. Production control. Gantt Chart C. P. M. and PERT. Optimization. Linear programming as an aid to decision-making. Elementary treatment of decision-making policies under risks and uncertainties.

Transport and Materials Handling Selection of transport media for finished goods, raw materials and equipment. Facility layout and location. Work study and production processes.

Basic principles of work study. Principles of motion economy. Ergonomics in the design of equipment and processes. Introduction to Computer Soft wares used in Management.

### 9.3.5.2. 500 LEVEL COURSE STRUCTURE/CONTENTS

#### FIRST SEMESTER

Semester	S/No	Course Code	Course Title			Credit	Units	
FIRST	1.	GRE 501	Engineering Management and Economics					
	2.	CVE 511	Structural Mechanics III					
	3.	CVE 521	Hydraulic Structures					
	4.	CVE 531	Design of Structures III					
	5.	CVE 541	Geotechnical (Foundation) Engineering					
	6.	CVE 551	Highway and Transportation Engineering I					
	7.	CVE 561	Water Resources and Environmental Engineering I					
	8.	CVE 591	Computer Application in Civil Engineering					
	9.	ELA 501	ENG LAB & WORKSHOP PRACTICE VI					
	10.	CVE 501	Final Year Engineering Project					
				<b>OPTIONAL COURSES*</b>				
	10.	CVE 533	Advanced Structural Engineering I					
	11.	CVE 543	Advanced Foundation (Geotechnical) Engineering I					
	12.	CVE 553	Highway And Transportation Engineering II					
	13.	CVE 563	Advanced Water Resources and Environmental Engineering I					
	14.	CVE 565	Drainage and Irrigation Engineering I					
			CVE 573	Construction Engineering I				
			<b>TOTAL CREDIT UNITS</b>					

**Note:** L = Lecture Hours/Week; T = Tutorial Hours/Week; P = Practical Hours/Week.

**\*Note:** Only one of the optional courses can be taken.

## SECOND SEMESTER 500 LEVEL COURSES

Semester	S/No	Course Code	Course Title			Credit	Units
<b>SECOND</b>	1.	GRE 502	Engineering Management and Economics II				
	2.	CVE 512	Structural Mechanics IV				
	3.	CVE 522	Engineering Hydrology				
	4.	CVE 532	Design of Structures III				
	5.	CVE 542	Geotechnical (Foundation) Engineering				
	6.	CVE 552	Highway and Transportation Engineering I				
	7.	CVE 562	Wastewater Engineering II				
	8.	CVE 502	Final Year Engineering Project				
				<b>OPITIONAL COURSES*</b>			
	9.	CVE 534	Advanced Structural Engineering II				
	10.	CVE 544	Advanced Foundation (Geotechnical) Engineering II				
	11.	CVE 554	Highway And Transportation Engineering II				
	12.	CVE 564	Advanced Water Resources and Environmental Engineering II				
	13.	CVE 566	Drainage and Irrigation Engineering II				
14.	CVE 573	Construction Engineering II					
			<b>TOTAL CREDIT UNITS</b>				
			<b>GRAND TOTAL CREDIT UNITS</b>				

**Note:** L = Lecture Hours/Week; T = Tutorial Hours/Week; P = Practical Hours/Week.

**\*Note: Only one of the optional courses can be taken.**

### 9.3.5.3. 500 LEVEL COURSE CONTENTS/DESCRIPTION

#### **CVE 511: STRUCTUREL MECHANICS III**

**2 Credits**

Analysis and Resolution of forces in finite elements

1. Plastic method of structural analysis
2. Stress analysis in finite elements (3-dimensinal)

#### **CVE 521: Hydraulic Structures**

**3 Credits**

Introduction to Hydraulic Structures

Introduction to open channel flow: Uniform flow, Steady Gradually Varied flow, Hydraulic jump, Classification and computation of water surface profiles, stilling basins, municipal storm drains. Unsteady open channel flow.

Introduction to multiple purpose reserved design for flood control water supply, irrigation, recreation, navigation and erosion control. Dams; spillways; dykes; levees; coastal and harbour engineering.



**CVE 531: DESIGN OF STRUCTURES****2 credits**

1. Composite Design and construction in steel and reinforced concrete
2. Design of structural foundation
3. Design of structural form, tall buildings, lift shafts and shear walls, system building
4. Design projects.

**CVE 541: FOUNDATION (GEOTECHNICAL) ENGINEERING 3 credits**

Stress in Soils: Total and effective stress: Pore water pressure and pore pressure coefficients A and B; Seepage pressure: liquefaction, quick sand and boiling; Introduction of stress distribution in layered system from Boussinesq's theory and Westergaard theory, for various configurations. The 2:1 method of stress distribution.

Consolidation and Settlement: settlement of structures on soils, immediate (elastic), consolidation settlement and secondary compression. Settlement of structure on cohesionless soil using sedimentary Schmartzmann's method.

Shear strength of Solids: General strength consideration, state of stress at a point and Mohr stress circle. Mohr Coulomb theory failure: shear tests; vane shear test, direct shear test, tri-axial test; shear strength of saturated clays, shear strength of compacted unsaturated clays, sensitivity of soils, residual strength parameters.

**CVE 551: HIGHWAY & TRANSPORTATION ENGINEERING II 2 Credits**

**1. Aspects of Highway** Highway Planning and Management..

**1.1. Highway Planning and Traffic Survey. Location and physical surveys and general** highway network: vehicle and over characteristics; speed studies, delay studies, origin and destination studies and traffic composition studies.

**2. Study of Nigerian highway design policies, standard and specifications. Comparison with International Standards.**

**3. Highway Economy**

**3.1.** Methods of economic analysis of highway project (Benefit-Cost Ratio; Net Present Value and Internal Rate of Return, etc)

**3.2. Annuities; Present and Future Worth; Amortization; Capital Recovery Factor, Simple and Compound Interest, etc.**

**3.3. Sourcing of Fund for cost intensive highway projects.**

**3.4. Financial sponsorship; loan; grants; aids or assistance from multi-national financial institutions (ADB; World Bank; EU; NEPAD).**

**4.0. Design of Rigid Pavement**

**4.1.** Pavement Structure and design of highway and airport pavements by such methods as: (a) Westergaard Equations; (b) Corps for engineers method; (c) Asphalt Institute method for flexible highway pavements; (d) Portland Cement Association method for rigid airport standards.

**4.2.** Standard CBR method extended to airport pavement design,.

**5.0.** Traffic Management: Accident studies, traffic control devices – traffic signals, markings and operation arrangements of traffic signals, design of traffic signals.

**6.0.** Causeway and Low Cost Bridges. .

**7.0. Aspects of Railway Engineering.**

**8.0.** Water Transportation Engineering.

**9.0.** Aspects of Airfields.

**10. Needed laboratory tests are expected to be covered by the requirements stipulated in the courses of Civil Engineering materials and soil mechanics. Laboratory experiment. (Covered in ELA 501).**

**CVE 561: Water Resources and Environmental Engineering I            2 Credits**

1. Quantity: Population forecasting and per capital consumption, water requirements for domestic, public, commercial, industrial and agricultural purposes. Water distribution networks analysis and design. Theory and laboratory evaluation for the design and operation of unit operation and processes Application of basic principles of sanitary engineering and hydraulics to the design of water distribution and treatment systems.
2. Collection: Rainwater from roofs, determination of storage capacity for small individual supplies, surface water from reservoirs, rivers, intake structures; groundwater; transmission conduits.
3. Treatment: Flow diagrams for the treatment of surface and ground water, preliminary treatment, screening coagulation, flocculation and sedimentation. Slow sand, rapid sand, and pressure filters. Disinfection; water softening, iron and manganese removal; chemical for water treatment.
4. Distribution: Storage tanks and service reservoirs. Mains, pipelines, and distribution network. Valves, meters and services pipes. Pumps and pumping stations.
5. Laboratory and course work.
6. **Economy of Water Projects: Assessment of Economic Viability of water projects (which are capital intensive),** using such methods as: Benefit Cost Ratio; Internal Rate of Return; Short term rate method, etc. Appraisal of financial implications of water projects before commencement of their implementation.

**5.1. ELA 501: ENGINEERING LABORATORY & WORKSHOP VI (2 CREDIT UNITS)  
ELA 501 COURSE CONTENTS OUTLINES**

**I. STRUCTURAL UNIT**

- 5.1.1.NO.1 FLEXURAL TEST OF CONCRETE
- 5.1.2.NO.2 NON DESTRUCTIVE TEST EXPERIENT
- 5.1.3.NO.3 MOULDING OF SANDCRETE BLOCK

**II. ENGINEERING SURVEYING AND GEO INFORMATICS UNIT**

- 5.1.4.NO.4 PROJECT SURVEY

**III. GEOTECHNICAL & HIGHWAY UNIT**

- 5.1.5.NO.5 CALIFORNIA BEARING RATIO
- 5.1.6.NO.6 DIRECT SHEAR TEST
- 5.1.7.NO.7 TRIAXIAL COMPRESSION TEST
- 5.1.8.NO.8 VANE TEST
- 5.1.9.NO.9 DETERMINATION OF CONSOLIDATION CHARACTERISTICS
- 5.1.10.NO.10 UNCONFINED COMPRESSION TEST
- 5.1.11.NO.11 DUCTILITY TEST OF BITUMEN
- 5.1.12.NO.12 DETERMINATION OF FLASH AND FIRE POINT OF BITUMEN
- 5.1.13.NO.13 IDENTIFICATION OF BITUMINOUS MATERIALS
- 5.1.14.NO.14 DESIGN OF BITUMINOUS CONCRETE
- 5.1.15.NO.15 DEMONSTRATION OF USE OF DRILLING RIG
- 5.1.16.NO.16 DEMONSTRATION OF CONE PENETRATION TEST

**IV. WATER RESOURCES AND ENVIRONMENTAL UNIT**

- 5.1.17.NO.17 DETERMINATION OF CHLORINE DEMAND OF WATER
- 5.1.18.NO.18 DETERMINATION OF THE RESIDUAL CHLORINE OF WATER
- 5.1.19.NO.19 DETERMINATION OF BIOLOGICAL OXYGEN DEMAND OF WASTE WATER
- 5.1.20.NO.20 DETERMINATION OF CHEMICAL OXYGEN DEMAND OF WASTE WATER
- 5.1.21.NO.21 ANALYSIS OF DISSOLVED OXYGEN OF WASTE WATER
- 5.1.22.NO.22 STREETER-PHELPS MODEL OF THE DISSOLVED OXYGEN SAG CURVE
- 5.1.23.NO.23 EVALUATION OF POLLUTION STANDARD INDEX
- 5.1.24.NO.24 TO VERIFY THE INVERSE SQUARED LAW FOR SOUND
- 5.1.25.NO.25 APPLICATION OF CONCEPTS OF ENERGY AND MOMENTUM
- 5.1.26.NO. 26 DISCHARGED THROUGH WEIRS
- 5.1.27.NO.27 LAMINAR/TURBULENT FLOW
- 5.1.28.NO. 28 INVESTIGATION OF RAINFALL AND RUNOFF

**CVE 501: FINAL YEAR CIVIL ENGINEERING PROJECT I (3 Credits)**

Original individual student project related to a prescribed Civil Engineering problem involving, theoretical and/or experimental investigations, modeling, simulation analysis and design.

### **OPTIONAL COURSES / ELECTIVES**

#### **CVE 563: Advanced Water Resources and Environmental Engineering I 2 Credits**

Dams, Pumps, Turbines, Impellers, Spillways; Energy Dissipators, Management of water systems, etc

#### **CVE 533: Advanced Structural Engineering II (Option) 2 Credits**

1. Feasibility study and planning of building and Civil Engineering works and construction. Structural appraisal of Buildings.
2. Design and detailing of major structural engineering works – specifications
3. Modern structural forms and methods of construction. Design projects for complete structures will be assigned in groups or individually.

#### **CVE 543 Advanced Foundation (Geotechnical) Engineering 1 2 Credits**

Design of Piles and Buoyant Foundations in difficult geophysical conditions: in offshore, landslide, Seismic prone areas, etc

#### **CVE 553 Highway and Transportation Engineering II (Option) 2 Credits**

1. Highway Planning: Role and importance of transportation, modes of transportation special characteristics of road transportation, visa-a-vis others. Highway planning – road pattern, planning surveys, master plan.
2. Traffic and transportation engineering: Scope of traffic engineering; traffic characteristics, studies, traffic operation, intersections; parking facilities – highway planning, transportation planning.
3. Construction Materials: Flexible and rigid pavements materials, semi-rigid pavement materials; stabilized soils, Newer materials.
4. Railway traffic analysis and design, including determination of level service and capacity of different types of railways.

Laboratory: The laboratory work may involve, depending on the nature of project chosen, some specialized traffic studies on a given area.

**CVE 565 Drainage and Irrigation Engineering I 2 Credits**

Analysis and design of surface and combined drainage systems, collection storage and pumps. Methods of overflow protection of large and Analysis and design of irrigation system. Soil-plan-water relationship Water supplies, water delivery system and water distribution system.

**CVE 573 Construction Engineering (Option) 2 Credits**

Advanced construction in difficult areas: swampy areas; offshore; hilly areas; valleys; rocky areas; construction of seaports; wharf; quays; airport; Management and administration of big companies, etc

**SECOND SEMESTER 500 LEVEL COURSES**

**CVE 512: STRUCTURAL MECHANICS IV (2 credits)**

1. Plastic methods of structural analysis
2. Matrix method of structural analysis
3. Elastic instability
4. Continuum of plane strain, elastic flat plates and torsion, solution by series, finite difference, finite element, yield line analysis and strip methods for slabs.
5. Application of the theory of elasticity to engineering problems.
6. Application of the theory of elasticity to engineering problems. Beams having initial curvature, stresses and deformations in loaded rings, buckling and local yield, stress concentrations.
7. Laboratory test of structural elements.

**CVE 532: PRESTRESSED CONCRETE DESIGN (2 Credits)**

1. Philosophy, methods and systems and pre-stressing
2. Serviceability limit, state design o structural elements; cable curve fitting; losses of pre-stress, shear bond and deflection; cable extension; anchorages.
3. Ultimate limit, state design of structural elements – strength in flexure and shear.
4. Composite construction.

**CVE 522: ENGINEERING HYDROLOGY (2 Credits)**

1. Groundwater hydrology; types of geological formations; physical properties of aquifers, Darcy's law and hydraulic conductivity. Steady aquifer flows and estimation of hydraulic conductivity. Unsteady flow and estimation of the storage coefficient. Groundwater exploration, well construction and pumping. Unsaturated flow.
2. Surface water hydrology; Surface runoff and factors that affect surface runoff, catchment characteristics, hydrograph analysis; unit hydrograph and its application.
3. Reservoir and river routing: Routing equation. Application to flood routing over reservoirs and rivers.
4. Hydrological forecasting. The need for forecasting: a frequency analysis.
5. Physical and Statistical Analysis related to hydrological processes.
6. Laboratory and course work

**CVE 542: FOUNDATION (GEOTECHNICAL) ENGINEERING (3 Credits)**

1. **Bearing Capacity:** Ultimate, safe and allowable bearing capacities. Bearing capacity factors; case of shallow and deep foundations, factor of safety, shape effect, footings under eccentric inclined loads.
2. **Foundation:** Type and choice of foundations: footings, rafts and pipe. Use and general characteristics of pipes, pile in sand, piles in clay. Negative skin friction; pile groups, bearing capacity and settlement of pile groups; efficiency of pile groups.
3. **Earth Pressure:** Pressure equilibrium. Active, passive and at-reset pressure, earth coefficients, computation of earth pressures using the Rankine and the Coulomb wedge theories, and Cumming's method.  
Earth pressures on retaining walls. Types and analysis of retaining walls. The use of bracing as lateral support in open cuts, anchored bulkheads free earth support method of analysis.
4. **Slope Stability:** Types and mechanics of slope failures. Theoretical and graphical solutions of slope stability problems. Effect of tension cracks on slope stability. Ordinary method of slices

## **CVE 562: WASTE WATER ENGINEERING II    2 Credits**

**Waste Management;** which includes: Solid Waste Management; Waste Water Management and Air Pollution and Control

### **1. General Introduction to Wastewater Management**

- 1.1. Types of Wastes normally generated
- 1.2. Impact of waste water on the environment
- 1.3. BOD, Dissolved Oxygen, Solubility and De-oxygenation of surface water (streams, rivers)
- 1.4. Water Pollution, Environmental Effects and Controls
- 1.5. Self Purification Capacity of Rivers and Streams
- 1.6. Wastewater (Effluent) Quality and Standards

### **2. Basic Microbiology of Waste Management:**

- 1.1. Types of waste borne micro-organisms (bacteria, protozoa, virus, amoeba, spirogyra, algae, fungus, etc). Pathogenic microorganisms, etc.
- 1.2. Phases of bacterial growth
- 1.3. Water borne diseases and controls

### **3. Waste Management**

- 3.1. **General Principles of Waste Management** include: Generation, Collection, Conveyance or Transportation; Treatment, Recycling and Reuse.
- 3.2. **Methods of Wastewater (Sewage) Disposal** includes:
  - 3.2.1 **Small Scale or for house hold:** septic tank; soak away pit; Imhoff Tank; etc
  - 3.2.2. **Conventional large Scale Method:** Biological Bed; (Bio-filter) or Trickling filter; Oxidation Pond; Caroussel Ditch; Pasaveer Ditch; Activated Sludge; Aerated Lagoon; etc
  - 3.2.3. **Purely Natural Method: By Stabilization Ponds** whose components include: Anaerobic Pond; Facultative Pond; Maturation Pond; etc
- 3.3. **Solid Waste Management: Different Methods of Refuse Disposal** include: refuse bin; incinerator; landfill; various **Composting Methods;** including vermin-composting, etc
4. **Air Pollution and Control, etc.**

**5. Problems of Waste Management in the Developing Countries, Especially in Tropics:** Irregular Power Supply; Inadequate or Lack of Manpower; Lack of Appropriate Technology; Inadequate Basic Skills; Lack of Funds; Poverty; Illiteracy; etc.

**6. Waste Management Economy (Engr. Avemaria Matthew. EZE, MNSE)**

**CVE 552: CIVIL ENGINEERING SERVICES (PRACTICE) 2 credits**

Water supply and installation. Hot water systems, sanitary appliances, methods of refuse disposal, equipment for air conditioning and ventilation, installations for industrial buildings, gases, liquids, refrigeration, vacuum cleaning, fire fighting systems, electrical and high circuits, standby power sources.

**CVE 591: COMPUTER APPLICATIONS IN CIVIL ENGINEERING 2 credits**

Review of Computer programming and programming languages (Fortran, Basic, etc). Computer applications in structural engineering, hydraulic engineering, hydrology, statistics, surveying, highway engineering, individual or group projects on computer solutions of specification problems.

**CVE 502: CIVIL ENGINEERING PROJECT II 3 credits**

Second phase of project work involving the Fabrication of the designed models, debugging, calibration, testing, data collection and analysis, and presentation of a comprehensive written report of the investigation.

#### **OPTIONAL COURSES / ELECTIVES**

**CVE 564: Advanced Water Resources and Environmental Engineering II 2 Credits**

Dams, Pumps, Turbines, Impellers, Spillways; Energy Dissipators, Management of water systems, etc

**CVE 554: Highway and Transportation Engineering (Option) 2 Credits**

Highways through special routes such as underground tunnels; gorges; valleys; Modern Railway Systems, etc

**CVE 534: ADVANCED STRUCTURAL ENGINEERING II (OPTION) (3Credits)**

Theory of Plates and Shells; Design plates; shells; domes; Very tall Buildings, etc

**CVE 544 Advanced Foundation (Geotechnical) Engineering II 2 Credits**

Design of bases for dams; dam body; Design of Piles and Buoyant Foundations in difficult geophysical conditions: in offshore, landslide, Seismic prone areas, etc

**CVE 566 Drainage and Irrigation Engineering II 2 Credits**

Analysis and design of surface and combined drainage systems, collection storage and pumps. Methods of overflow protection of large and Analysis and design of irrigation system. Soil-plan-water relationship Water supplies, water delivery system and water distribution system.

**CVE 574 Construction Engineering 2 Credits**

Advanced construction in difficult areas: swampy areas; offshore; hilly areas; valleys; rocky areas; construction of seaports; wharf; quays; airport; Management and administration of big companies, etc

#### **9.4. FINAL YEAR PROJECT AND THESIS**

A project is extremely important part of the engineering degree programme. Although lectures and laboratory experiments are designed to improve learning process, project supplements this process by starting the student on to the path of independent thinking. The student will be required to carry out independently a small project which would enable him to develop his thought processes, creativity, problem-solving ability, initiative, and attitude to work. The nature of the project may be one or more of the following:

- (a) Developing a theory for solving a problem
- (b) Developing computational procedures for solving a problem
- (c) Setting up an experiment for demonstrating an establishing theory.
- (d) Building a working system form established plans and testing the system
- (e) Developing a design routine for a device, constructing it (if required for the project ) and testing it
- (f) Investigating specific problems which may arise in governmental Institution, Industrial firms, and other private bodies of corporation in the country.
- (g) Investigating causes of failure of any specific plant or device and suggesting remedies, if any.

Examination regulation stipulates that “project and thesis” would carry marks equivalent to two 2-hour paper in the final examination. For the purpose of making, an oral examination will be held in which the student will be required to defend his project.

##### **9.4.1. How to Select a Project:**

A project should normally be chosen from fields related to the specific subject selected by the student for the final year degree examination.

In selecting a topic for a project, it is expected that the student goes through the subject titles of papers (in the field of interest) published during the last ten years in engineering journals. Some of these journals are present in Appendix.

A student, first of all go through the subject headings as listed in “Civil Engineering Abstracts” or “Applied Science and Technology Index”. The specific journal in which the paper of interest is published is then consulted and all references listed in the paper collected. A likely project or problem if found the student discuss it with his lecturers who will instruct as to whether equipment could be made available for the project and whether any staff member would be willing to act as a supervisor.

The student would then prepare a rough outline of the proposed project listing all references materials and submit it to the supervisor. The supervisor after establishing feasibility of the project, would give final go-ahead or possibly suggest something different, or modification in which the supervisor himself is interested.

The ideal situation is one where the chosen project coincided with a supervisor’s area of interest. For this reason, member of staff are requested to design projects in their areas of research interest. Students can then choose their project from a list of such project topics.

Whenever practicable, students should know their projects long before the beginning of the session.

##### **9.4.2. Basic precepts regarding Engineering Projects:**

Two of the most important aspects of a project work include the preparation and organization. Preparation and organization are of the utmost importance in writing the report on the project if someone else is to understand the work.

Preparation requires a careful reading of the instruction and collateral material (references, manuals etc), a clear understanding of each step involving in the required procedures before the actual execution of the project, and often a written planned programme (rough outline of proposed, degree to be investigated, preliminary calculations, etc).

Organization is a guiding principle to be followed throughout then preparation, execution and reporting of a particular. A good organization, entails the neat construction or design of the model they may be easily visualized and checked, systematic entering of data with descriptive headings and entering of all relevant information regarding equipment used.

### 9.4.3. Writing Thesis

#### 9.4.3.1. Allocation of Available Time:

A student should aim at his project at about the middle of the second semester, and submit the typed and bound copies of the project two weeks to the beginning of second semester examinations.

The time schedule should be roughly as follows:

Initial preparation.....	6 weeks
Practical Work connected with the project.....	10 weeks
Write-up and submission of draft Thesis.....	4 weeks
Supervisor's and comment on draft project.....	3 weeks
Typing, correction and binding of final thesis.....	4 weeks

#### 9.4.3.2. Organisation of Thesis:

Before adopting a format for your project, it is necessary to read the information for author of any Civil Engineering journal reference:

Menzel, Jones and Boyd: "Writing a Technical Paper", McGraw-Hill, 1961.

A formal report on a project may follow below and could include the following:

- (a) Abstract: A concise description of the report including the purpose and most important result in the order in which they occur in the report paper.
- (b) Introduction: a complete statement of the problem an outline of the theory involved in the solution, and a brief statement concerning the expected results.
- (c) Body: of the report should include;
  - (c1) Procedure: a brief outline of the actual constructional experimental, computational, or other methods followed including necessary circuit diagrams.
  - (c2) Presentation of Result, an appropriate presentation of the original and processed data- lists, tables, graphs. Sample calculations must be shown.
  - (c3) Conclusion, an interpretation of the results as they apply to the objectives of the project set out in the introduction. Any deviation from the expected or theoretical results are to be accounted for.
  - (c4) Recommendations: any recommendations arising from the project work should be presented.
  - (c5) Limitations of Work: some assumptions made to simplify the work are examined in the light of the results.
- (d) References: should be to commonly available publications and books. These should be listed at the end of the paper and number 1,2,3 etc. All reference should be referred to at least one in the text so as to justify their presence and relevance to the project. It is good practice to refer to a reference by its number (shown as superscript or subscript or written within parenthesis) in the text.
- (e) Appendices (if any) it is normal to set out construction details of a model, complex mathematical derivation of a theory, lengthy computation procedures etc., in appendices. They should be referred to in the text to justify their inclusion.



#### **9.4.3.3. Binding and Number of Copies Required**

A minimum of four copies of the project is required, after typing the top copy (for the Department) and one other copy (for interview panel) should be handed over to the Department after Binding. The student should bind the remaining two copies (at his own expense) one of which should be handed over to the supervisor.

#### **9.3.4. Organization and Display of the Project Work:**

Proper organization of a project work may be achieved by making reference to the following publications:

Wilson, E.B.: "An introduction to Scientific Research", McGraw-Hill, 1952.

Baird, D.C.: "Experimentation: An Introduction to measurement Theory and Experiment Design" Prentice hall, 1962.

The student should normally display the essentials (short theory, models, input data, desired results, etc) of a project and talk about or demonstrate them to visitors, or discuss his project in a seminar held during the session.

Display materials should therefore be prepared and preserved until the day of the oral examination. These should prove invaluable in explaining the project work to the member of the examination panel or to the external examiner.

#### **9.3.4.5 Project and Thesis Assessment:**

The project supervisor is the only person perhaps who knows as much as a student on the problem involved in a particular project. Therefore, his opinion will carry reasonable weight in assessing the project assessment exercise. The supervisor is expected to consider the following in assessing the project

- a) The level of supervision or guidance he has been able to give you;
- b) The level of achievement you attain during the project with or without his guidance;
- c) Your ability to solve the problem posed by the project and how much of his was through your own effort;
- d) Whether you kept a day-to-day record (in the log-book) of the progress made and whether you discussed with him from time to time any problems you been confronted with.

The supervisor's marking of the project will be to the extent of 20%, the remaining 80% being allocated to the panel for the oral Examination and to a second reviewer/assessor. The members will assess you on the following:

- i. Your understanding of the subject you investigated
- ii. Your ability to answer questions (and explain points) on the work you have done.
- iii. Your project presentation and layout.
- iv. You may further be interviewed by the external examiner, or whenever a review of the grading by the supervisor and the panel become necessary.

### **9.5. SUMMARY LIST OF SUPERVISED FINAL YEAR PROJECTS; 2006/2007 – 2013/2014**

#### **I. FINAL YEAR PROJECTS IN 2006 / 2007 ACADEMIC SESSION**

1. Achimalo, Uchechukwu Ikenna (02/005352/ENG): "Design of a Reinforced Concrete Bridge to Link Ogbese Community, Edo State and Okeluse Community in Ondo State"
2. Akinfesola, Kayode (03/003356/ENG): "Problems with Water Distribution in Crown Estate Okada and Solutions"
3. Arinola Babtunde (02/001573/ENG): "Geometric Re-Design And Pavement Design of Ojurin-Onikokoro Road at AKOBO in Oyo State"
4. Bomari, Abibo Edwin (02/001574/ENG): "The Collapse of Buildings: A Case Study of Building Collapse in Rivers State of Nigeria"

5. Efiom, Ndaeyo Efiom (02/001575/ENG): “Comparative Design of a Long Span Reinforced Concrete Slab.”
6. Michael Obianwu (02/001578/ENG); “Assessment of Water Quality Sources of Water in Okada Town”

## **II. FINAL YEAR PROJECTS IN 2007 / 2008 ACADEMIC SESSION**

7. Olagunju, Anthony (03/003381/ENG): “Traffic Load Centre and Analysis Using Ore Intersection in Ondo State”
8. William, Uwemedimo (03/003385/ENG): “Analysis of Quality of Sachet Packed Water Consumed in Okada Community, Edo State”
9. Yusuf, Habeeb Tosin (03/003386/ENG): “Air Pollution Control In Cement Industry: Case Study Of West African Portland Cement Company”
10. Orlu, Rosmary Adanwor (03/003382/ENG): “An Appraisal of the Water Supply Problem in Crown Estate, Igbinedion Unversity”
11. Ohahuna Ugochukwu (03/003379/ENG): “Comparative Cost Analysis of Timber and Steel Roof Trusses”
12. Iroro, Orobosa Walter (03/003374/ENG): “Effect Of Fire On Building Structural Elements Using INEC Zonal Office, Okada”
13. Edeki Omua Kehinde (03/003366/ENG): “Geospatial Data Acquisition and Design for Urban Road Network”
14. Edeki Idianemi Taiye (03/003365/ENG): “Geopatial Data Acquisition And Design For Flood And Erosion Control, Ivbiot, Benin City”
15. Folami Olatunde Idris (03/003372/ENG): “Cause and Solution to Traffic Problems at Intersection, M.M. Way, Benin City”
16. Coker, Odunayo (03/003364/ENG): “Provision of Effective Waste Management Techniques (Solid Waste Disposal) in Okada”
17. Oladele Israel Abidemi (03/003380/ENG): “Evaluation of the Safety of Water from Ogbese River”
18. Achebe, Chinwe Jessica (03/004914/ENG): “Brewery Waste Management. Case Study Guinness Nigeria Plc”
19. Olayioye, M. Simoyan (03/003384/ENG): “Vehicle Occupancy (Car and Pooling) With a Case Study of Benin City”
20. Fabiyi Kayode (03/003371/ENG): “Tenability Of The Bar beach Shoreline Protection”
21. Ambaiowe Charles Dubra (03/003358/ENG): “Bridge Failure Evaluation: A Case Study of Some Failed Bridges in Lagos State”
22. Nwabeke Ihiechi Kevin (03/003376/ENG): “The Use of Recycled Waste as a Partial Replacement of Cement in Concrete Production. A Case Study of Cassava Peel Ash”
23. Dawan NA'Ankang (03/006564/ENG): “Quality Optimization In Road Construction. Case Study of 2<sup>nd</sup> Ugbor Okundia-Gapiona Link Road, Benin City-Edo State”
24. Ekong Fredrick Ekong (03/003369/ENG): “Effect of Gas Flaring on the Environment and Civil Engineering Structures: Case Study of Ibeno Local Government Area, Akwa Ibom State.”

## **III. FINAL YEAR PROJECTS IN 2008 / 2009 ACADEMIC SESSION**

25. Nwokoma Chibuike (04/005040/ENG): “Analysis of Highway Related Accidents Between Okada / New Lagos Road Junction and Igbinedion University Main Gate, as Case Study”
26. Faruk Fahad Hussein (04/005038/ENG): “Analysis and Design of Storm Water Drainage for Crown Estate, Igbinedion University, Okada”
27. Omoregie Osagie Marshal (02/001580/ENG): “Analysis and Design of Storm Water Drainage for College of Engineering, Igbinedion University, Okada”
28. Obey-Fabiyi Oreoluwa (02/00050/ENG): “Analysis of the Properties of Ant Hill Termite Soil”

29. \Makama Michael(04/0050205/ENG): “Design of Central Sewerage System for Old Boys Hostels Crown Estate, Igbinedion University, Okada”
30. Briggs Danagogo Taribo-Wenike (04/005036/ENG): “Comparative Analysis of Strength and Cost of Okada Laterite Bricks and Other Available Bricks / Blocks”
31. Tanno-Whyte Patrick Otemu (04/005044/ENG): “Comparative Analysis of Strength and Cost of Cement Stabilized Bricks and Bituminous Stabilized Bricks”

#### **IV. FINAL YEAR PROJECTS IN 2009 / 2010 ACADEMIC SESSION**

32. Enidom Emmanuel Ugochukwu (05/006288/ENG): “Design of a Proposed Central Waste Stabilization Pond for Igbinedion University, Okada”
33. Akionbare Osaretin Gabriel (05/006285/ENG): “Structural Analysis and Design of an Elevated Storage/Distribution Water Tank With 15m High Supporting Steel Tower for Proposed Head Works of College of Engineering.”
34. Sarumi Aderibigbe (05/006299/ENG): “Design of Geometric Alignment and Pavement of Semi-Urban Road – for 500m Length of a Road in Okada Town as a Case Study”
35. Egone Patrick (Jnr.); (03/003368/ENG): “Analysis and Classification of Okada Soil, with Respect to Engineering Properties”

#### **V. FINAL YEAR PROJECTS IN 2010 / 2011 ACADEMIC SESSION**

36. Achimalo, Ezugo Emeka (06/006919/ENG): “Analysis And Design of A 1-Storey Commercial Building for the College of Engineering, Igbinedion University, Okada
37. Ale, Olugbenga Joseph (06/006920/ENG): “Structural Analysis and Design of an Elevated Storage/Distribution Reinforced Concrete Gravity Water Tank with 20 Metre High Supporting R. C. Tower for Central Head Works of Residential Crown Estate, IUO”
38. Forsman, Joshua Ebikikoro (06/006922/ENG): “Analysis of Causes of Failure of Rural and Semi-Urban Road Pavement And Mitigation Measures - A Case Study of 1 Km Length of Road in Okada Town”
39. Koffreh Archibong (06/006923/ENG): “Environmental Impact Assessment Environmental Impact Assessment (EIA) of Logging Activities and Timber Industry – Case Study Of Okada Town / Environs) of Logging Activities and Timber Industry – Case Study of Okada Town / Environs”
40. Naiyeju, Oluwatosin Samuel (06/007531/ENG): “Analysis and Comparison of Surface Water from Various Sources – A Case Study of Some Streams/Rivers in Ovia North East LGA”
41. Nwanise Etinam Nwanise (06/006925/ENG): “Analysis and Design of Highway Storm Water Drainage – A Case Study of 1 Km Length of Road in Okada Town”
42. Oyati, Ebenezer (05/006298/ENG): “Design of Efficient and Cost Effective Semi-Urban Sewerage System - Case Study of Okada Town”
43. Orakwue Chukwuemeka Alexander (05/006294/ENG): “Analysis, Design and Detailing of Earth Retaining Wall as a Control Measure for Flood and Erosion in A Semi-Urban Area – Using 300m Length of a Road in Okada Town”

#### **VI. FINAL YEAR PROJECTS IN 2011 / 2012 ACADEMIC SESSION**

44. Ike-Morris Amanze (08/008956/ENG): “Surveying, Setting Out and Design of a Semi-Urban Road – A Case Study of 500 meter Length of Access Road in the Residential Crown Estate, Igbinedion University, Okada”
45. Mekwunye Kenechi. (07/007853/ ENG): “Design of a Levee – A Case Study of 200 meter Length a Levee for Farming Area along Bank of the River Niger in Asaba, Delta State”
46. Nwaoboshi Christopher (08/009729/ ENG): “Design and Costing of a 50m long x 50m wide x 3m deep Swimming Pool for a Commercial Hotel to be located at Asaba, Delta State Capital”
47. Sekibo Osemiebi (05/008300/ENG): “Analysis of Ground Water Pollution and Remediation – A Case Study of a Locality in Port Harcourt, Rivers State”

## **VII. FINAL YEAR PROJECTS IN 2012 / 2013 ACADEMIC SESSION**

48. Adedokun Sakiru Olayide (08/008951/ENG): “Design of Borehole Based Mini-Water Supply Scheme for Okada Town”
49. Adesola Billy Praise (08/009148/ENG): “Design of Efficient and Cost Effective Semi-Urban Sewerage System - Case Study of Crown Estate, Igbinedion University, Okada
50. Akinnawonu Segun Ademola (08/009701/ENG): “Analysis of Causes of Failure of Urban and Semi-Urban Road Pavement and Remediation - A Case Study of 5 Km Length of Road Between Usen Road Junction and New Lagos Road Junction.”
50. Aloba Solomon (08/009775/ENG): “Design of Efficient and Cost Effective Semi-Urban Sewerage System Using Natural Method - Case Study of Crown Estate, Igbinedion University, Okada.”
51. Anyawata Aleruchi Kenneth (07/007958/ENG): “Water Quality and Effects on Human Health: A Case Study of Idjerhe Clan, Delta State, Nigeria”
52. Ashiru Ayotunji Samson (08/008954/ENG): “Structural Analysis, Design and Costing of an Elevated Storage/Distribution Gravity Braithwaite Water Tank with 30 Meter High Supporting Steel Tower for Crown Estate Campus of Igbinedion University, Okada”
53. Babalola Oluwasegun Samuel (07/005981/ENG): “Electronic Waste Management: A Case Study of Computer Village Located in Ikeja, Lagos State, Nigeria”
54. Eruvbedede Emuobo Rewane (08/009877/ENG): “Analysis of Problems and Challenges facing Construction Industries in Nigeria – A Case Study of Warri, Delta State”
55. Onyegbadue Chigozie (08/009700/ENG): “Comparative Analysis of Strength and Cost Implication of Bricks / Blocks made with Different Available Local Materials; namely: Okada Termite Soil; Clay; Sandcrete Blocks, etc in the Okada Locality.”
56. Orowodje Godson Oghenerievume (07/0081171/ENG): “Analysis and Design of a 2 - Storey Commercial Building for the Residential Crown Estate, Igbinedion University, Okada.”
57. Oyubu Mudiaga Eru (08/009763/ENG): “Analysis and Design of a Foundation Launching Pad for a Rocket”
58. Seghosime Sule (09/011010/ENG): “Measurement of Hydrological and Hydraulic Parameters of Streams: A Case Study of Okada; Iguedo and Okhai Streams in Okada and Environs”
59. Thomas Oluwafemi Olumide (08/009738/ENG): “Hydrological Analysis and Hydraulic / Structural Design of a Multi-Cellular Highway Culvert – A Case Study of a 2- Box R. C. Culvert with Dimensions: 8.2m wide x 20m long x 4m deep. (To be sited at the Junction of Mission Road Okada / Entrance Road of the Residential Crown Estate, Igbinedion University, Okada”

## **VIII. FINAL YEAR PROJECTS IN 2013 / 2014 ACADEMIC SESSION**

60. Abubakar Nasiru Sadiq (09/011506/ENG): “Evaluation of Economical Provision of Affordable Rural Water Supply in Nigeria – A Case Study of Okada Town and Environs”
61. Adirika OgochukwuChidinwa (09/011113/ENG): “Evaluation of the Capabilities of Two Plant Species for Photo- remediation of Motor Oil Contaminated Laterite Soil”
62. Agbonlahor Leonard Ehiosu (09/010974/ENG): “Analysis of Causes of Failure of Roads in Urban Area – A Case Study of Selected Areas in Benin City”
63. Alli-Oke Kehinde Temitayo (09/010978/ENG): “Comparative Structural Analysis and Design of a Storey Building Shopping Complex - A Case Study of Use of Three Types of Building Materials: R.C.; Steel and Timber”
64. Amifor Prince Chukwuakasi (09/010980/ENG): “Noise Propagation and Modelling in Sawmill Quarters, along Usen Road”
65. Babatunde Olatoro Joseph (09/011623/ENG): “Analysis of Environmental Corrosion in Civil Engineering Materials – A Case Study of Corrosion in Concrete”

66. Daykyen Nicodemus Na'Anmiap (09/010982/ENG): "Analysis of Causes of Accidents and Improvement in Safety Measures in Construction Industry in Nigeria – A Case Study of Jos, Plateau State"
67. Ekpe Michael Sunny (09/011633/ENG): "Optimal Location of Water Resources Monitoring Network in Ogbese River"
68. Eneh Ugonna (09/009869/ENG): "Structural Analysis and Design of A 2-Storey Administrative Building Block – A Case Study of 40m long x 30m wide R., C. Block"
69. Eresia-Eke Odoma (09/010986/ENG): "Soil Erosion Management – A Case Study of Benin City"
70. Foster Olusegun Anuoluwapo (09/011580/ENG): "Analysis of Stability of Sub-grade and its Improvement in Road Construction – A Case study of 1 Km Road in Okada"
71. Gamu Abimbola Ayowande (09/010992/ENG): "Comparative Analysis of Quality of Asphalt in Road Construction Industry in Nigeria – A Case Study of Asphalt from Ten Major Road Construction Companies in Nigeria"
72. Igbele Simon Uchenna (09/010460/ENG): "Application of Water quality Index in Determination of Industrial Water Quality Case Study of Ikpoba River; Benin City"
73. Iluobe Kester (09/011606/ENG): "Analysis and Purification of Oil Polluted Water – A Case Study of River Ethiope"
74. Iyamah Osi Victor (09/010992/ENG): "Structural Analysis and Design of Filling Services Station - A Case of Filling Services Station for Okada Community"
75. Jinadu Tomiwa Omogoriola (09/010994/ENG): "Structural Analysis and Design of Circular Reinforced Concrete Elevated Water Tank for Crown Estate"
76. Lawal Ahmed Adeyinka (09/010996/ENG): "Analysis and Design of Rigid Pavement - A Case of 1 Km Length of Rigid Pavement for Okada Area with Weak Soil bearing Capacity"
77. Manager Fun-Owei (09 / 01056 /ENG): "Sediment Transport Analysis and Modelling - A Case Study of Okada Stream"
78. Ndem Nsinne Udo (09/011565/4ENG): "Analysis of Effect of Flood Attenuation for Effective Storm water Drainage in Urban Area – A Case Study of Okada"
79. Odebowale Babatunde (09/010998/ENG): "Structural Analysis and Design of Water Supply Buttress Dam – A Case of 20 Meter High Buttress Dam for Okada"
80. Ofiare Osapkamukoko (08/009814/ENG): "Evaluation of Highway Related Accidents and Safety Measures"
81. Ogbiti Kingsley Kalu (09/010999/ENG): "Comparative Analysis of Strength of Concrete Using Sawmill Dust as Partial Replacement– A Case Study Mixing Concrete with 5 - 30 % of Saw Mill"
81. Ogele Enyinda Sunny (09/01103/ENG): "The Use of Rice Husk Materials for Partial Replacement of Cement in Concrete"
82. Okonna Nsikak Mcpherson (09/010999/ENG): "Assessment of the Potential of Waste to Energy Technology – A Case Study of Conversion of Scrap Metal to Car Battery System"
83. Okpivbiri Ohiozjie (08 / 009609/ENG): "Comparative Analysis of Long Term Deflection of Reinforced Concrete Slab and Beam in a Building Structure – A Case Study Analysis Using Four Specified Methods"
84. Olawole Abiola Philip (09/011001/ENG): "Structural Analysis and Design of a Theater - A Case Study of 10,000 Capacity Theater Complex for Igbinedion University, Okada"
85. Onaghise Osamudiamen Paul (11/013125/ENG): "Erosion Control of Road surface and Sub-Surface in Okada Town"
86. Osahon – Amen Esosa (10/012786/ENG): "Structural analysis and design of a Pedestrian Bridge for Crown Estate Gate Igbinedion University, Okada"
87. Salako Sulaiman Adeola (10/012806/ENG): "Analysis of Causes of Highway Failure in Urban Areas and Mitigation – A Case Study of Selected Area of Okada"

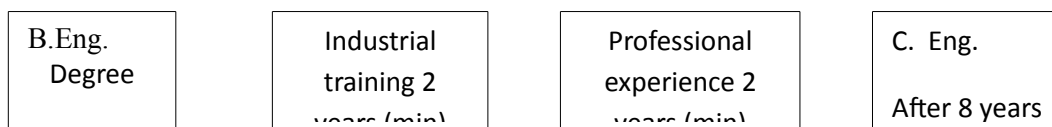
88. Salami Afolabi (09/011111/ENG): “Structural Analysis and Design of a Mini- Sports Stadium Complex - A Case Study of 60,000 Capacity Stadium Complex for Igbinedion University, Okada”
89. Usman Hauwa Abdulkadir (09/011013/ENG): “Structural Analysis and Design of a Mini – Grain Storage Building for a Community - A Case Study of 25m Long x 25 m wide x 6 m High Storage Building for Okada”
90. Okoruen Francis Uto Irekeke (09/011000/ENG):\_” Performance Evaluation of Nigerian Roads – A Case Study of Selected Area in Benin City”

### 9.6. Becoming a Chartered Engineer

To become a fully qualified professional engineer, graduates must be registered by the Council for the Regulation of Engineering in Nigeria (COREN). They can then use the letters C.Eng. after their names, indicating that they are a Chartered Engineers. The requirements are: an enhanced degree, i.e. a B.Eng., and a minimum of two years’ approved industrial training with an appropriate company. The national youth service year is often counted as one if spent with an appropriate engineering enterprise.

Thus, via a conventional four-year degree course, the process normally takes at least eight years from leaving school (see diagram); it may take longer, of course, if industrial training is difficult to come by. The provision of such training can be expensive for employers, because they will incur costs in providing it, and will lose the use of an employee’s services whilst training is undertaken.

The five-year thick sandwich course in the College of Engineering Technology at Igbinedion University, Okada helps to smooth the way through this stage, because the integrated industrial placement is approved by the Council for the Regulation of Engineering in Nigeria (COREN). With a large proportion of the industrial training already completed, students are well down the road to registration even before graduation.



## 10. FACILITIES AVAILABLE IN THE DEPARTMENT OF CIVIL ENGINEERING

10.1. General Office Facilities available in the department of Civil Engineering is summarized as follows:

S/N	Type	Number Exclusively Available for the Program	Average Area (m <sup>2</sup> )	Capacity (Number of Students that Can be accommodated)	Facilities Jointly Used
1.	Lecture Rooms	6	36	60	3
2.	Lecture Theatre	3	270	200	3
3.	Drawing Studio	1	60	60	1
4.	Library	1	60	80	1
5.	Laboratory	5	450	35	4
6.	Workshop	2	60	30	1
7.	College Board	1	50	40	1

10.1.1. Available office facilities include: seats; desks; book shelves; cupboards;

1 No. computer complete with accessories; 3 Nos. printers; 1 No. scanner; etc.

Others Include: tables, chairs, book shelves, steel cabinets, fans and air conditioners; 2Nos Standby gen-sets.

**10.1.2. Departmental Office Accommodation for Staff**

The office accommodation for the staff is adequate for now. There are four office rooms each with plan area space of 12sq. m. The ongoing expansion work in the college will provide more offices for the staff.

**10.1.3. Staff office Facilities**

Staff offices are fairly well furnished. Each Lecturer has a personal computer and the students have access to computers in the department while they receive further training in the University’s Computer Laboratory. Also, wireless internet facilities is being installed for the College. This will provide excellent research facilities for the lecturers.

Some available staff office accommodation is summarized below.

S/N	Office	No in Room	Facilities
1.	Head of Department	1	7No. chairs; 1 No. table; I No.fan; I No.AC; I No. Fridge; I No. bookshelf; I No. Cupboard I No. computer with I No. printer
2.	Professor	1	same as above
3.	Senior Lecturer	2	4No. chairs; 2 No. table; I No.fan; I No. bookshelf; I No. computer
4.	Lecturer 1	2	4No. chairs; 2 No. table; I No.fan; I No. bookshelf; I No. computer
5.	Lecturer 11	2	4No. chairs; 2 No. tables; 1 No.fan; I No. bookshelf; I No. computer

**10.1.4. Class rooms:** Total available 15 Nos in Block 1( 3 Nos) and Block 3 (12 Nos) capable of sitting 200 and 100 respectively, fully furnished with magnetic boards lecturers, teacher’s desk and chairs, fans.

**10.1.5. Drawing Studio / Offices:**

1 No Large one in Block I  
4 Nos Mini in Block 3

} 400 seats capacity

**College Library:** Capacity for 100 users with books, journals, periodicals and a Librarian/Library Assistant. In Admin 600seaters reading room. 1000 volumes (books, journals, periodicals), bookshelf novels, journals periodicals and reference materials.

**10.2.Library Facilities**

The department has a library which is located in the College Library, is equipped with modern books on current subjects in Civil Engineering, including reputable journals, etc. More books are being added from time to time. The library provide excellent services to both the students and the staff. Both students and staff have access to the college library and the University library.

**10.2.1. ICT Facilities**

Each lecturer has a personal computer. The computers are also connected to wireless internet network of the University, operated by the ICT. The students have access to computer in the department while they receive further training in the University's Computer Laboratory.

**10.2.2. Browsing Sites** are available in the hostel, offices. Hot spots are also available. This enables students / staff with laptop to access the internet.

**10.2.3. Common ICT/e-learning/Distance learning:-**

In the College: 60- seaters capacity internet ready computer Laboratory/LAN

In AdminBuilding: 100 seater digital centre.

In Hospital Campus: 100 seater digital centre

Video conference facility

In Hostel (Boys): 50 seaters digital centre

(Girls): 50 seater digital centre

Natural & Applied Sc:100 seater computer Lab, Internet ready/LAN

Facilities are networked Wifi, WAN, LAN

Private providers: Crown Estate

Intercontinental hostel

Staff Club/Student Café

100 seater video conference centre at IUTH.

**10.3. Research Centres**

Instructional Resource

Product Development

Environmental

Energy

Appropriate Technology

**10.4. Laboratories**

The Civil Engineering Laboratory / Workshop Block comprises of five units, namely;

- i. Structural / material laboratory (also housing the concrete and wood workshop);
- ii. The Water Resources / Public Health / Hydraulic laboratory;
- iii. The Geotechnical or Soil Mechanics laboratory ;
- iv. The Engineering Survey and Geo-Informatics laboratory (also incorporating Highway lab); and
- v. The modeling Studio.

There are two office rooms in the Civil Eng Lab (one for the technologist and the other for lab attendant).The list of the equipment in each laboratory, is attached in Appendix 1, at the end of this Form.

**10.4.1. List of Principal Tools, Instruments and Equipment in the Civil Engineering Laboratory**

S/No.	Description of Facilities AVAILABLE	Quantity in Stock	Remark
<b>A.</b>	<b>WATER RESOURCES &amp; ENVIRONMENTAL ENGINEERING LABORATORY</b>		
1.	Evaporating Dish, 100mm, porcelain	5	Okay
2.	Local Oven, Drying, Thermostatic	1	Okay
3.	100mm Desiccators	2	Okay



4.	50ml plastic sample bottle	10	Okay
5.	250ml glass sample bottle	10	Okay
6.	Bunsen Burner	5	Okay
7.	75mm Glass Funnels	20	Okay
8.	Test tube	20	Okay
9.	20ml Zero Burette	4	Okay
<b>B.</b>	<b>GEOTECHNICAL, HIGHWAY &amp; TRANSPORTATION ENGINEERING LABORATORY</b>		
1.	Local Hand Auger	4	Okay
2.	A complete set of aggregate size series (10mm – 200mm)	1	Okay
3.	CBR Plunger	1	Okay
4.	Moisture Content tin	4	Okay
5.	Complete Set of Sieves	1	Okay
<b>C.</b>	<b>GEODECTIC ENGINEERING &amp; PHOTOGRAMMETRY LABORATORY</b>		
1.	Dumpy level	2	Okay
2.	Steel tape	4	Okay
3.	Leveling staffs	4	Okay
4.	Ranging pole	8	Okay
5.	Compasses	2	Okay
6.	Engineer's chains	2	Okay
7.	Planimeters	1	Okay
8.	Plumb-bobs	3	Okay
9.	Arrow sets	4	Okay
<b>D.</b>	<b>STRUCTURAL (CONCRETE WORKSHOP)</b>		
1.	Local type slump cone with complete accessories	1	Okay
2.	Cube moulds	10	Okay
3.	Shovels/Spades	4	Okay
4.	Head pans	5	Okay
5.	Trowels	6	Okay
6.	Wooden float	3	Okay
7.	Wheel barrow	4	Okay
8.	Weighing beam balance	1	Okay
<b>E.</b>	<b>Available In Mechanical Engineering Laboratory</b>		
1.	Portable Carbolite Furnace	1	Okay
2.	Universal Testing Machine	1	Okay
3.	Hardness Tester	1	Okay

## 11 General University / College / Departmental Facilities

### 11.1. Transportation Facilities

- i. University: fleet of 30 Nos, 14 seater air-conditioned buses for
  - ❖ Day to day transportation
  - ❖ Okada Benin shuttle
  - ❖ Holiday shuttle
  - ❖ Escort ions/field trips
  - ❖ Visitation on IT

- ❖ Other functions: Guest lecturers, visits
- ii. Private Taxi: cabs: Registered with students Affairs about 150Nos
- iii. Bike: Registered with student affairs about 100Nos.
- iv. A good Road Network exists.

### 11.2. Common University Recreation Facilities

Football pitches	2Nos
Basket ball	2 Nos
Volley ball	2 Nos
Lawn tennis	2 Nos
Badminton	2 Nos
Table tennis	2 Nos
Scrabble, chess, movable lots.	
Swimming pool	1 No.

### 11.3 Accommodation Facilities

Staff housing (both in the Residential Crown Estate and Usen Road Extension) 1

Bed room flats @ 60 Nos

2 Bedroom flats @ 40 Nos

3 Bedroom flats @ 100 Nos

Duplexs @ 11 Nos

Guest: Guest house complex 14 x 4 Bedroom Bugalows

Student Hostel: University – Capacity for 10,000 beds

Intercontinental – capacity for 400 beds

We run strictly a fully Residential campus

100 scatter reading rooms in hostels

### 11.4. Water Supply Facilities

- (i) 2 Nos water works for direct Pipe borne water
- (ii) inwinter wor5ks in Okada town
- (iii) intervening supplies vide tankers into ground tanks

### 11.5. Electrical Power Supply Facilities

(a) College of Engineering:

(b) 1 No. Standby 150 KVA

(c) 1 No. Standby Generator 7.5 KVA

(d) Crown Estate

(i) Main 1.60MVA Sub main

(ii) 3 Nos 250 KVA

(iii) IUTH 2 x 1MVA units

Numeropus 5 KVA units

(e) Main Campus: (i) 1 Nos KVA; (ii) 1 No. KVA; (iii) 1 No KVA

11.6. Solar Energy: for street lighting in all the campuses and basic power needs

### 11.7. Health Care

Hospital Campus : IUTH (Main)

Hostel Area: 1 Pharmacy, 3 Nos

Sick bays and first aid points for students and staff. (Female block, student café road).

hostel, Z

**11.8. Banking :** Real time online with ETB, Zenith, Intercontinental and Okada - Microfinance Bank. All banks have cash offices on the various campuses with ATM facilities for non-office hours/weekend banking.

### **11.9. Security**

(a) permanent fencing of campuses and specific students residential areas with excellent access control.

(b) security service provider - Sheriff Deputies to mount/control/guard academic office, labs and residential areas.

### **11.10. Fire Fighting /Environmental Facilities**

Availability of Co2 fire extinguishers, sand buckets, water buckets and fire blankets in strategic locations pole bins, vegetation control, **landscaping**.

### **11.11. Teaching Aids**

- public address system with tape recorders (combined unit)
- multimedia projector
- overhead projectors
- Laptops etc.

### **11.12. Demo Facilities**

The Radio/TV studio housed Mass Communication Department is available for practical demonstration (Hands on) for students of Electrical Engineering , Computer Engineering to enhance other facilities in communication technology. It has state of the art facilities like:- Digital monitors, Vision Mixer, Audio Mixer, DVD player, DV players, Video cameras, VCR players. Non linear editing unit (for the N studio) and models/samples etc.

## **12. Funding of the Civil Engineering Department**

The University operates a centralized funding system. Requests for teaching aids and other materials (computer and computer consumables) are obtained from the central stores of the University. Printing and materials for examinations – booklets and photocopied questions paper – are all effected from Vice Chancellor’s office. Funding for external examiners – honorarium and transport are also paid for from the central vote. However. Colleges and departments have fair autonomy. And College/Departmental accounts are controlled by college finance Officers.

The Dept operates a centralized/discentralized funding system for capital costs, and petty cash (imprest) spending etc. Funds are provided centrally for staff development, furnishing exams research, teaching aids, tours and travels, maintenance, utilities etc. Generally funds are available for overheads (staff salaries/advances/loans), operating cost and running costs.

Aside the centralized system, there are funds for imprest and other internally/externally generated sources Attempt have been made to secure fundsthrough grants/aids from external sources and other partnerships.

## **13. Collaborations**

The college enjoys facilities from collaboration entered into by the University with Howard University, USA, University of Westminster, UK, London, University of Benin. Benin City. areas of ICT, Video Conferencing exchanges, Laboratories etc.

## **DEPARTMENT OF ELECTRICAL AND COMPUTER ENGINEERING**

### **FORWARD**

Edition of “Handbook For Undergraduate Programmes” sets out in detail information on the structure of the Department of Electrical and Computer Engineering and includes extracts from the University Regulations Governing First Degree Programmes.

The handbook also contains information on the vision, mission, course description in respect of the department and other relevant matters.

This handbook shall be of great value to students and staff of the department and other persons who may wish to obtain information on the academic programmes of the department of Engineering

**Engr. Izilein Fred A.**  
**Ag. HEAD OF DEPARTMENT**

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## **2.0 COURSE STRUCTURE/DESCRIPTIONS (300-500 LEVELS)**

### **3.0 FINAL YEAR PROJECT AND THESIS**

- 3.1 The Nature of the Project
- 3.2 How To Select A Project
- 3.3 Basic Precepts Regarding Engineering Projects
- 3.4 Writing Thesis

## **4.0 BECOMING A CHARTERED ENGINEER**

### **1.0 INTRODUCTION**

#### **1.1 Departmental Vision:**

The vision of the Department is to be the best Electrical/Electronics and Computer Engineering Department in any Nigerian University with national and international acclaim; a Department where the advancement of engineering and technology is continuously dynamic, environment-friendly engineers, required in the public and private sectors of the economy are mid-wifed for the rapid industrialization and development of Nigeria.

#### **1.2 Mission:**

The mission is to develop into a national resource that will continue to support the development of Nigeria, its economic diversification to make it responsive to the needs of government, industry and society. Thus, the Department will provide:

- State-of-the-art technological and engineering training that prepares the graduates for responsibilities of the workplace.
- Engage in appropriate research activities, and, hence, produce the most sought-after engineers by all employers of labour, post graduate schools and research institutes.
- Establish industry-institution linkages for mutually beneficial relationships

Strive to become a Centre of Excellence in Engineering and Technology in the West-African sub-region where expertise and facilities to accelerate the pace of industrial development can be provided.

### **1.3 Brief History:**

The department opened her door to students in the 2002/2003 sessions with an intake of about 30 students. Currently the student population is about 200. The department has a highly experienced team of academic, technical and administrative staff with cognate experience. The department is equipped with an ultra modern engineering workshop and laboratories, classrooms and drawing studios with state of the art facilities. The department graduated its first badge of students in the 2006/2007 session.

### **1.4 Goals and objectives:**

The general goals and objectives of engineering training are expected to be in consonance with the realization of national desires with respect to industrial development and high technology attainment. Consequently, the objectives of the engineering programmes are to:

- i. Develop the necessary skills, creative ability, attitudes and expertise consistent with engineering design, communication and construction of engineering works and projects;
- ii. Adapt and improve on exogenous technology in order to enhance construction techniques and the proper study and use of local raw materials;
- iii. Inculcate maintenance culture in the use of engineering artifacts;
- iv. Inculcate a responsible attitude towards demands made by the practice of engineering and risk Implication of design and construction;
- v. Install and maintain complex engineering systems to enable them perform optimally in the Nigerian environment;
- vi. Be able to exercise original thought, have good professional judgment and be able to take responsibility for the direction of important assignments;
- vii. Be self employable, and,
- viii. Ensure therefore, that engineering graduates from Igbinedion University are resourceful, creative, knowledgeable and capable of carrying out the following functions:
  - i. To design engineering projects and supervise their construction;
  - ii. To design and make components, machines, equipment and systems;
  - iii. To design and develop new products and production techniques in industries;
  - iv. To be good manager of people, money, material, plants and machinery.

In order to achieve the goals and objectives set out above, and taking into consideration the broad-based approach to engineering education and training, we therefore made the following recommendations:

#### **1.4.1 Academic Staff:**

Efforts are made to ensure that the NUC guideline on staff-student ratio of 1 to 30 is maintained. The department has qualified staff with PhD. degrees as well as industrial experience.

#### **1.4.2 Technical Staff:**

The department has competent technical staff to run the laboratories, workshops, studios, and maintain teaching and research equipment.

### **1.5 Philosophy:**

The general philosophy in line with the minimum academic standards set by the NUC is to produce graduates with high academic standard with adequate practical background and of immediate value to industry and the nation in general; and be self-employable. The programme has four-intervening Industrial-Training periods to enable the engineering graduates acquire the necessary skills to solve local problems. Pursuant to the general philosophy, therefore, the programmes have been designed to incorporate the following features:

- a) Common courses at the 100 and 200 levels for all engineering students
- b) 8 weeks workshop practical at the end of the 2<sup>nd</sup> semester 100 level examinations for all engineering students.
- c) Workshop practice (up to 300 level) and, laboratory work for all engineering students.
- d) Interaction between students and professionals through regular seminars
- e) Final year research project where the student works alone under an academic supervisor
- f) Opportunity to have in-depth study of a specific area of the programme from a wide selection of optional courses.
- g) Adequate knowledge in engineering management and entrepreneurship

### **1.6. Admission Requirements:**

- (1) Candidates seeking 100-level admission into the College leading to the Bachelor of Engineering, (B.Eng) Degree, of the College of Engineering Technology should possess passes at the credit level, or higher, in the Senior Secondary School Certificate Examination(SSCE) or General Certificate of Education (GCE) 'O' Level in five subjects, including Mathematics, Physics, Chemistry and English Language, plus an acceptable pass in the Universities Matriculation Examinations (UME), where applicable. Equivalent passes in examinations conducted by NECO and NABTEB are accepted.
- (2) Candidates seeking Direct Entry admission to 200 level of the programmes should possess GCE 'A' Level in Mathematics, Physics and Chemistry or Ordinary National Diploma from a recognize institution with lower credit, or a University Diploma in a Science or Engineering based course at the Merit level, in addition to the matriculation requirements stated in (1) above. Candidates with Higher national diplomas in relevant disciplines can be considered for direct entry as appropriate.

### **1.7 Curriculum:**

#### **a. Course Credits**

All courses for the Bachelor of Engineering degree programmes should be based on the various Departments. Courses taken at the 100 and 200 levels are common to all Departments in the Faculty and are taught Faculty-wide by Departments assigned to teach the courses. All courses are assigned credits. One credit is equivalent to one hour per week per semester of fifteen (15) weeks of lectures or tutorials or three (3) hours per week of laboratory work per semester. All students in the programmes should take a minimum load of eighteen (18) credits per



semester. A minimum of nine (9) hours per week, (equivalent to three (3) credits), should be spent on laboratory practical.

**There should also be one hour of tutorial for every four (4) hours of lecture.**

**b. Course Coding**

It is proposed that all courses be coded according to Department, level and semester. Thus, the Department codes are as follows:

Electrical/Electronic Engineering - EEE,                      Computer Engineering - CPE

The level codes are as follows:

100 level	-	1
200 level	-	2
300 level	-	3
400 level	-	4
500 level	-	5

Semester codes are as follows:

First Semester	-	1 or any odd number
Second Semester	-	2 or any even number

For example, the full course code for a 200 level course, offered by Electrical Engineering in the first semester, is of the form: EEE 211 where, 2 represents the level, 1 the number assigned by the Department to track the course, and 1 represents the semester. Should the same course be available in the second semester, the course code would be EEE212 where the '2' at the end of the figure signifies the second semester.

**1.8 Industrial Training:**

Engineering education is incomplete without industrial attachment being part of the degree programme. The NUC recommends a minimum duration of 40 weeks (one semester and 3 long vacations) for industrial attachment. The objective of the attachments cannot be overemphasized. It is to expose the students to a live working environment where they can relate theory to practice and enhance their communication and human relation skills. Priority is given to those engineering concerns in which maintenance and workshop practice plays a major role because they offer practical exposure that may be available in the Colleges. From the aforementioned, the following practical training scheme: Igbinedion University Industrial Training Scheme, (IUIITS), is carried out by the college:

**(i) Pre-degree IUIITS – IUIITS 102**

This is an intensive eight-week in house practical training in the various workshops within the College and around the campus. It commences two weeks after the end of the 100 level Session Examinations for 100 level Engineering students. During this period, the students are exposed to workshop practices that may be encountered in the mechanical, machine, sheet metal, automobile, welding, carpentry, civil, computer and electrical engineering workshops.

**(ii) First Industrial Attachment (200 level IUIITS) – IUIITS 202**

It commences two weeks after the end of the 200 level Session Examinations for 200 level Engineering students. During this period, the students are exposed to more workshop practices that may be encountered in the mechanical, machine, sheet metal, automobile, welding, carpentry, civil, computer and electrical engineering workshops.

**(iii) Second Industrial Attachment (300 Level IUIITS) - IUIITS 302**

The attachment takes place at the end of the 300 level session examinations for 12 weeks of the long vacation. Department staffs are expected to visit the trainees for on-the-spot assessment of their progress.

**(iv) Third Industrial Attachment (400 Level IUITs) - IUITs 402**

The attachment, which begins at the end of the first semester examinations, at the 400 level of the programme, it is the final exposure to industrial practice before the completion of the Bachelor of Engineering degree programme. It last for 24 weeks. It is expected that during the training, the student is exposed to his/her chosen end Degree.

Again Department staffs are expected to visit the trainees for on-the-spot assessment of their progress.

**(v) Grading and Assessment of Industrial Training**

This should be a combination of Continuous Assessment (CA) by the supervising college staff that visit the students on training, and the grading of the logbooks and final written reports of each student at the end of each training attachment. The designated officer of the establishment must properly authenticate such logbooks and reports where the students served.

Students in 300 and 400 level may be required to defend their report as part of their assessment. IUITs is graded on a pass or fail basis, a pass will require a student to obtain a minimum of 50% in the logbook and final written report.

**1.9 Registration:**

At the beginning of every session all students are to register for all their courses for that session using online registration as required by the University's Examinations and Records Unit of the Registry. They must register for a minimum of 18 credits per semester and 36 credits per session. The maximum number of credits for a session must, however, not exceed 52 credits with a maximum of 26 credits per semester.

**1.10 Course Adviser:**

The Head of Department appoints academic staff as course adviser to the students for the different level of study, with the primary responsibility of ensuring that the students register for the courses and credits as is required, and advising them on University regulations as they relate to their studentship.

**1.11 Examinations:**

Examinations should be conducted at the end of each semester to assess the students understanding of the taught courses from a combination of examination results, continuous assessments and grades obtained from laboratory/practical work. The student's status may be determined at the end Session Examinations.

**1.12 Eligibility for summer:**

Eligible students for the summer school will be those:

- (a) Who are not indebted to the University in any form
- (b) Who have attended lectures during the semester(s), sat for examination and failed in the relevant course(s).
- (c) Who have attended lecture for the said course(s) during the semester(s) but failed to sit for examination due to acceptable reasons as approved by Senate.

1. To qualify to register for any course in summer, a student must score at least 25% for the said course(s). In other words, a student who scores below 25% in any course(s) will automatically carry such course(s) over to the next level of study.
2. **Credit Units:**  
The maximum credit unit allowable for a student during summer is pegged at 18 units for the all summer examination in that session.
3. **Fee:**  
A student is expected to register for summer before being allowed to sit for it. The registration fee of N2,500 and N7,500 per course is currently being charge.

### 1.13 Academic Standing:

A student is in good academic standing at the end of any semester if the CGPA is not less than 1.5 and can proceed to the next level otherwise; such a student attains the status of probation and will be advised to repeat all failed courses from the previous session in the new session. If in the next successive two semesters, the CGPA of such student consistently remains below 1.5 then such a student will be advised to withdraw having failed to utilize the probation period to improve on the academic performance. Note that no candidate is allowed to probate on a level more than once. However a student on probation but whose CGPA subsequently rises to 1.5 or greater reverts to the status of good academic standing.

### 1.14 Graduation Requirements:

To be eligible for the award of the degree of B.Eng Electrical and Electronics or Computer Engineering, a candidate must have satisfied the following conditions:

- a) Completed a minimum of 9 months industrial training, 6-month stretch being compulsory.
- b) Passed all compulsory and required courses (including GSTs and ESP).
- c) Bringing the minimum total number of units passed to:

**Table 1.1: Minimum Number of units Required for Graduation**

Level of Entry	Electrical and Electronics Engineering	Computer Engineering
100	217	220
200	169	172
300	123	124

For a student to qualify for graduation from any of the programmes, such a student must have passed all the prescribed courses in addition to satisfactorily meeting the Industrial Training requirements, and all General studies courses of the University. Such a student must have also met the minimum number of years and not exceeded the maximum number of years required for graduation shown in Table 1.4

**Table 1.2: Minimum and Maximum No. of Years Required for Graduation**

Level of entry	Minimum number of years to graduate	Maximum number of years to graduate
100 level	5	8

200 level	4	6
300 level	3	5

The class of the Bachelor of Engineering Degree is determined by the final cumulative grade point average earned by the graduating student.

### 1.15 Cumulative Grade Point Average (CGPA) :

The CGPA for each level of course is calculated from a combination of the grade GP assigned to % scored obtained in the examination and the credit assigned to that course. The relationship presented in Table 1.3

**Table 1.3: Calculation of GPA**

Courses attempted (a)	Credits attempted (b)	% Scores (c)	Letter grades (d)	Grade point (e)	Grade point credit weighed (f) = (b) x (e)	Cumulative grade point average (GPA) (g) = $\sum(f) / \sum(b)$
EEE 211	3	70 – 00%	A	5	3 x 5 = 15	$\frac{43}{16} = 2.69$
EEE 221	3	60 – 69%	B	4	3 x 4 = 12	
EEE 231	4	50 – 59%	C	3	4 x 3 = 12	
EEE 241	2	45 – 49%	D	2	2 x 2 = 4	
EEE 251	4	0 – 44%	F	0	4 x 0 = 0	
	Total 16				Total 43	

Thus the student who attempted the 200 level courses shown in Table 1.3, sat for a total of 16 credits, and ended up with a GPA of 2.69 for that level. This mode of computation is done for each level per student. The cumulative grade points average, CGPA on which the classification of a graduating student is based, is the sum of the GPA's for each level divided by 5 for a 5-year programme, or 4 for a 4-year programme presented in Table 1.4.

*Table 1.4: CGPA for a Graduating Student, XXXX*

Mat No.	Name of Student	Level	UNITS	WP	GPA	CGPA
ENG9900020	XXXX	100	48	104	2.17	$\frac{488}{201} = 2.43$
		200	47	112	2.38	
		300	42	98	2.33	
		400	26	60	2.31	
		500	38	114	3.0	
		5	201	488		

The degree classification, according to the CGPA recommended by the NUC is presented in Table 1.5:

**Table 1.5: Degree Classification**

CGPA	Class of Degree
------	-----------------

4.50 – 5.00	First Class
3.50 – 4.49	2 <sup>nd</sup> Class Upper Division
2.40 – 3.49	2 <sup>nd</sup> Class Lower Division
1.50 – 2.39	3 <sup>rd</sup> Class Lower Division

Thus, the candidate, XXXX who finished up with a CGPA of 2.43 has earned a 2<sup>nd</sup> Class Lower Degree.

*ELECTRICAL/ELECTRONS AND COMPUTER ENGINEERING*

*GEN. ABDUSALAMI A. ABUBAKAR COLLEGE OF ENGINEERING*

**B.ENG. ENGINEERING DEGREE PROGRAMME**

*100 LEVEL COURSE SCHEDULE*

**First Semester**

<b>Semester</b>	<b>S/N</b>	<b>Course Code</b>	<b>Course Title</b>	<b>Credit Units</b>
	1.	MTH 111	Algebra & Trigonometry	3
	2.	MTH 112	Calculus / Real Analyses	3

First	3.	CHM 111	General Chemistry 1	2
	4.	CHM 112	Organic Chemistry I	2
	5.	PHY 111	General Physics I: Mechanics and Properties of Matter	2
	6.	PHY 112	General Physics II	2
	7.	PHY 113	General Physics III: Thermal Physics I	2
	8.	GST 111	Communication in English I	2
	9.	GST 112	Logic, Philosophy and Human Existence	2
	10.	GST 113	Nigerian History and Culture	2
			<b>1<sup>st</sup> Semester Total Credit Units</b>	<b>20</b>

### Second Semester

Semester	S/N	Course Code	Course Title	Credit Units
Second	1.	MTH 121	Vectors, Geometry/Statistics	3
	2.	MTH 122	Differential Equations & Dynamics	3
	3.	CHM 121	General Chemistry II	3
	4.	CHM 122	Practical Chemistry II	2
	5.	CHM 123	Organic Chemistry II	2
	6.	PHY 100	Practical Physics	1
	7.	PHY 121	Electromagnetism	2
	8.	PHY 122	Modern Physics	2
	9.	PHY 123	Vibrations, Waves and Optics	2
	10.	GST 121	Use of Library, Study Skills and ICT	2
	11.	GST 122	Communication In English II	2
	12.	GST 123	Communication In French	2
	13.	IUITS 102	Igbinedion University Industrial Training Scheme I	1
			<b>1<sup>st</sup> Semester Total Credit Units</b>	<b>26</b>
		<b>Total Session Credit Units</b>	<b>46</b>	

**Note:** L – Lecture Hours/Week, T-Tutorial Hours/Week, P-Practical Hours/Week.

#### **MTH111 – Algebra And Trigonometry**

**3 Credits**

Real number system: simple definition of integers, rational and irrational numbers. The principle of mathematical induction. Real sequences and series; elementary notions of convergence of geometric, arithmetic and other simple series. Theory of quadratic equations. Simple inequalities: absolute value and the triangle inequality. Identities: partial fractions. Sets and Subsets, union, intersection, complements, properties of some binary operations of sets; distributive, closure, associative, cumulative laws with examples, relations in a set; equivalence relation. Properties of set functions and inverse set functions, permutations and combinations. Binomial theorem for integer  $n$  – o index: Circular measure, trigonometric functions of angles of any magnitude. Addition and factor formulae. Complex numbers; algebra of complex numbers, the Argand diagram, De Moivre's theorem, n-th root of unity.

#### **MTH112: Calculus / Real Analyses -**

**3 Credits**

Elementary functions of a single real variable and their graphs, limits and the idea of continuity. Graphs of simple functions; polynomial, rational, trigonometric, etc., rate of change tangent and normal to a curve. Differentiation: as limit of rate of change of elementary functions, product quotient, function of function rules. Implicit differentiation of exponential functions. Logarithmic and parametric differentiation. Use of binomial expansion for any index. Stationary values of simple functions: maxima, minima and points of inflexion, integration by substitution and by parts. Definite integral: Volume of revolution, area of surface of evolution.

### **CHM111 – General Chemistry I**

**3 Credits**

Relationship of Chemistry to other sciences. Atoms, subatomic particles, Isotopes, Molecules. Avogadro's Number. Mole concept. Dalton's Theory, Modern concepts of atomic theory. The laws of chemical combination. Relative atomic masses. Nuclear binding energy, fission and fusion.

**The states of matter: Gases:** Gas Law. The general gas equation.

**Liquids and Solids** – Introduction to lattice structure, Isomorphism. Giant molecules.

Introduction to the Periodic Table. Hydrogen and hydride Chemistry of Groups 0, I, II elements. Acid-Base properties of oxides.

### **CHM112: Organic Chemistry I**

**2 Credits**

#### **(a) General Principles of Organic Chemistry:**

- (i) Introduction: Definition of Organic Chemistry. Classification of Organic compounds. Homologous series. Functional groups.
- (ii) General procedure for isolation of purification of organic compounds.
- (iii) Determination of structure of organic compounds. Elemental analysis, percentage composition, empirical and molecular formula, structural formula.
- (iv) Isomerism. Structural isomerism and stereo isomerism.
- (v) Electronic theory in organic chemistry. Atomic models, quantum numbers, atomic orbital. Hybridization leading to formation of carbon-carbon, single, double and triple bonds. Hydrogen bonding, electro-negativity. Dipole moment. Polarization, bond energy. Inductive and resonance effects.

#### **(b) Non-Polar Functional Group Chemistry:**

- (i) Alkenes: Structure and physical properties. Substitution actions including mechanism.
- (ii) Alkenes – Structure and physical properties. Reaction: addition (of  $H_2$ ,  $X_2$ ,  $HX$ ,  $H_2O$ ,  $O_3$ ), etc; Oxidation polymerization. Stereoisomerism – definition, geometrical and optical isomers, conditions for optical isomerism.
- (iii) Alkynes, structure. Acidity of acetylenic hydrogen. Reaction: addition of  $H_2$ ,  $X_2$ ,  $HX$ ,  $H_2$ ,  $H_2$ ,  $O$ , etc. Test for Alkynes.
- (iv) Benzene: Structure and aromaticity of benzene. Introduction to electro-phillic.
- (v) Introduction to petro-chemistry. Origin of petroleum importance, fractional distillation of crude oil, components properties and uses. Octane number, cracking.
- (vi) Coal tar chemistry, origin, production, important components and uses.

### **CHM 113 Practical Organic Chemistry:**

Experiments in basic techniques in organic chemistry: determination of melting points and boiling points, filtration, distillation, fractional distillation, re-crystallization, tests for functional groups: organic preparations.

**PHY111: Mechanics, and Properties of Matter -****2 Credits**

**Mechanics:** Scalars and Vectors: Addition and resolution of vectors. Rectilinear motion and Newton's law of motion. Inertial mass and gravitational mass; free fall; projectile motion; deflecting forces and circular motion. Newton's law of gravitation; satellites, escape velocity. Gravitational potential, potential; potential well; special case of circular motion. Momentum and the conservation of a momentum. Work, power energy; units. Potential energy for a gravitational field and elastic bodies; kinetic energy conservation of energy; energy stored in a rotating body. Kinetic energy in elastic and inelastic collisions.

**PHY 113 Thermal Physics** Temperature, heat, work; heat capacities; second law, Carnot cycle; thermodynamic ideal gas temperature scale. Thermal conductivity; radiation; black body and energy spectrum, Stefan's law.

Kinetic model of a gas: equation of state, concept of diffusion, mean free path, molecular speeds, Avogadro's number, behaviour of real gases. A model for a solid: inter-particle forces in solids, liquids and gases; physical properties of solids.

Crystalline structure: Close packing, orderly arrangements, elastic deformation of an ordered structure; interference patterns and crystals.

Model for Matter: Surface energy and surface tension, plastic deformation; thermal and electrical properties of metals.

**GST111: Communication in English****2 Credits**

Effective communication and writing in English language skills, writing of essay answers comprehension sentence construction, outlines and paragraphs collection and organization of materials and logical presentation, Punctuation.

The course will consolidate the fundamentals of English Language including the following: Nouns and Pronouns (types and features), Verbs and Tense (varieties), Adjectives and Adverbs (varieties, features and functions), Conjunctions, Prepositions, Interjections, Clauses (types) and Sentences (types). Language skills of listening, speaking, reading and writing (choosing topics for writing, planning, assembling and organizing points, outline preparation, factors of unity, coherence, context, originality, mechanical accuracy and paragraph development). Forms of writing including narrative, descriptive, expository, argumentative, summary, correspondences and speech writing. Use of library including cataloguing systems, locating books/journals, lending/borrowing reference materials, indexing.

**GST112: Logic, Philosophy and Human Existence**

A brief survey of the main branches of Philosophy. Symbolic logic, special symbols in symbolic logic-conjunction, negation affirmation, disjunction.

**GST113: Nigerian History and Culture****2 Credits**

Study of Nigerian history, culture and arts in pre-colonial times, Nigerian's perception of his world; culture areas of Nigeria and their characteristics; evolution of Nigeria as a political unit, Indigene/settler phenomenon, concept of trade, economic self-reliance; social justice; individual and national development; norms and values; Negative attitudes and conducts (cultism and related vices), Re-orientation of moral environmental problems.

Principles of good and bad, right and wrong; moral implications of our choices; judgment and actions; morality versus expediency; the role of conscience; moral obligations of citizen



**MTH121: Vectors, Geometry And Statistics:****3 Credits**

(a) Vector and Coordinate: Types of vectors; points, line and relative vectors. Geometrical representation of vectors in 1 – 3 dimensions. Addition and vectors and multiplication by scalar; Components of vectors in 1, 3 dimensions; direction cosines. Linear independence of vectors. Point of division of a line. Scalar and vector products of two vectors. Simple applications. Two-dimensional coordinates geometry; straight lines, angle between two lines, distance between points. Equation of circle, tangent and normal to a circle. Properties of parabola, ellipse, hyperbola. Straight lines and planes in space, direction cosines; angle between line and between lines and planes; distance of a point from a plane; distance between two skew lines.

(b) Statistics: Introduction of statistics. Diagrammatic representation of descriptive data. Measures of location and dispersion for ungrouped data. Grouped distribution measures of location and dispersion for grouped data. Problems of grouping. Associated graphs. Introduction to probability: sample space and events, addition law, use of permutation and combination in evaluating probability. Binomial distribution. Linear correlation; scatter diagram, product-moment and rank correlation. Linear regression.

**MTH122: Differential Equations And Dynamics****3 Credits**

(a) Differential Equations: Formation of differential equation of 1<sup>st</sup> degree and 1<sup>st</sup> order. Variables, separable, exact, homogenous and linear, differential equations of the 2<sup>nd</sup> order with constant coefficients.

(b) Dynamics: Resume of simple kinematics of a particle. Differentiation and integration of vectors with respect to a scalar variable. Application to radial and transverse, normal and tangential, components of velocity and acceleration of a particle moving in a plane. Force, momentum and laws of motion; law of conservation of linear momentum. Motion under gravity, projectile. Simple cases of resisted vertical motion. Motion in a circle (horizontal and vertical). Law of conservation of angular momentum. Applications of the law of conservation of energy. Work, power and energy. Description of Simple Harmonic Motion (SHM). SHM of a particle attached to an elastic string or spring. The simple pendulum. Impulse and change in momentum. Direct impact of two smooth spheres, and of a sphere on a smooth plane.

(c) Rigid body motion: Moments of inertia, parallel and perpendicular axes theorems. Motion of a rigid body in plane with one point fixed, the compound pendulum. Reactions at the pivot. Pure rolling motion of a rigid body along a straight line.

**CHM121: General Chemistry II****3 Credits**

Acids, Bases and Salts. Quantitative analysis. Theory of volumetric analysis – operations and methods. Calculations: mole, molality, molarity. Behaviour of electrolytes. Water. Colligative properties. Ostwald's dilution law. Arrhenius, Bronsted-Lowery, Lewis concepts and applications. Buffers. Introduction to reaction rates. Equilibria and equilibrium constants. Solubility products. Common ion effects. Precipitation reactions.

**CHM122 Practical Chemistry II****2 Credits**

Theory and Practice of quantitative thermal analysis, acid-base oxidation-reduction precipitation and complexometric titrations. Gravimetric analysis. Calculations data analysis and organic analysis for elements in groups IA, IIIA, IIB, IV. Thermal analysis of carboxylic etc.

**CHM123: Organic Chemistry II****2 Credits**

- (a) **Polar Functional Group Chemistry:**
- (i) Hydroxyl group – Alcohol and phenols. Classification. Acidity-comparison. Important methods of preparation. Reactions: with metals, bases, alkyl halides. Oxidation, dehydration. Tests for alcohols and phenols., importance.
  - (ii) Carbonyl group – Aldehydes and ketones structure: Physical properties. Important methods of preparation. Reactions: Tollen's reagent, Fehling's solution, benedict's solution, Iodoform reaction ; with HCN,  $\text{NaHSO}_3$ ; alcohols, including mechanisms, with ammonia, hydrazines and their derivatives, including mechanisms; aldol condensation. Tests for aldehydes and ketones. Importance.
  - (iii) Carboxylic group: Mono-carboxylic acids. Structure. Physical properties. Acidity and resonance. Important methods of preparation, from alcohols, aromatic hydrocarbons, through Grignard's reagent. Reaction with bases. Conversion to esters, amides, halides and anhydrides. Tests for carboxylic acid. Importance.
  - (iv) Carboxylic acid derivatives: Anhydrides acid halides esters and amides. Change of reactivity when OH of acid is replaced by – OOCOR-X –OR, -NR. Reaction with water, alcohols, ammonia and amines.  $\text{LiAlH}_4$ , Test for esters.
  - (vi) Amino group – Amines. Structure, Physical properties. Important methods of preparation. Reaction with acids, basicity and salt formation; Alkylation, acylation, with nitrous acids. Heisenberg method of separation. Tests for amines, importance.
- (b) **Miscellaneous Topics:**
- (i) Fats and Oils: Definition, importance, Saponification, Soaps and detergents. Modes of cleaning action. Reaction of soap with hard water, mineral acids. Drying oils, mode of action, use in paints and varnishes.
  - (ii) Amino acids, Proteins: Definition, classification, essential amino acids, special properties and reactions, iso-electric point, tests, importance.
  - (iii) Carbohydrates: Definition, classification, importance, nomenclature, structure and reactions of glucose.
  - (iv) Natural Products: Main classes (other than lipids carbohydrates and proteins); Steroids, terpenoids, alkaloids, prostaglandins definition, importance, examples.

### **PHY100: Practical Physics**

**2 Credits**

Students are expected to carry out a minimum of 12 major experiments covering the main aspects of the courses taken in the year. pre-requisites: 0-Level or WASC.

### **PHY121: Electromagnetism**

**2 Credits**

Electric field: Strength, flux and the inverse square law; electrostatic force between two charged particles; flux model for the electric field. Energy stored in an electric field, electrical potential due to dipole.

Steady direct currents: Simple circuits; potential difference resistance, power, electromotive force, Kirchoffs laws; potential divider, slide-wire potentiometer, bridge circuits, combining resistances. Capacitors: Capacitance, combination of dielectrics, energy stored, charging/discharging. Electromagnetic effects; electromagnetic forces, electric motors, moving coil galvanometer, ammeter, voltmeter, electromagnetic induction, dynamo.

Alternating currents: Simple A.C. circuits, transformers, motors and alternating currents.

Magnetic field: The field at the center of a current-carrying flat coil of a current carrying solenoid, outside a long solenoid, flux model and magnetic fields. Electromagnetic induction: Induction in a magnetic field; magnitude and direction of induced e.m.f; energy stored in a magnetic field; self-inductance.

Electricity and matter: Current flow in an electrolyte, Millikan experiment; conduction of electricity through gases at low pressure, cathode rays; photo-electricity.

**PHY 122 Modern Physics****2 Credits**

Structure of atom: Atomic theory, X-rays, Planck Quantum theory; Wave-particle nature of matter: scattering experiment of Geiger and Marsden, Rutherford atom model, Bohr's atom model. Structure of nucleus: Composition of nucleus, artificial transmutation of an element, natural transmutation of an element; discovery of neutron, particle, emission, isotopes, and gamma radiation. Prerequisite: O-Level or WASC.

**PHY123: Vibrations, Waves And Optics:****2 Credits**

Periodic motion of an oscillator: Velocity and acceleration of a sinusoidal oscillator, equation of motion of a simple harmonic oscillator: damped oscillations; forced oscillations; resonance; propagation of longitudinal and transverse vibrations.

Wave and light: Mirrors, formation of images, thin lenses in contact, microscope, telescope; chromatic and spherical aberrations and their reduction, Dispersion by prisms; relations between colour and wavelength; spectra.

**GST 121: Use of Library, Study Skills and ICT****2 Credits units**

Brief history of libraries, library and education, University libraries and other types of libraries, study skills (reference services). Types of library materials, using library resources including e-learning, e-materials; etc. Understanding library catalogues (card, OPAC, etc) and classification, copyright and its implications, Database resources, Bibliographic citations and referencing. Development of modern ICT, Hardware technology software technology, input devices, software technology, input devices, storage devices, output devices, communication and internet services, word processing skills (typing, etc).

**GST 122 Communication in English****2 Credits Units**

Logical presentation of papers, phonetics, Instruction on lexis, art of public speaking and oral communication figures of speech, précis, Report writing.

**GST123: Communication in French****2 Credits units**

Introduction to French, Alphabets and numeric for effective communication (written and oral), conjugation and simple sentence construction based on communication approach, sentence construction, comprehension and reading of simple texts.

**IUITS 102: Igbinedion University Industrial Training Scheme 1****1 Credit**

A 6-week intensive training program within the university. Introductory lectures on engineering; Exposure and visits to engineering project sites both within the university; neighbourhood; and visit to engineering based establishments. Intensive industrial training in the university engineering workshops, etc. Students submit and defend reports at the end of the exercise. They also write examination.

## 200 LEVEL COURSE STRUCTURE

Semester	Course Code	Course Title	L	T	P	Course Credit	Pre-requisite
First	EMA201	Engineering Mathematics I	2	1	-	3	
	ECP201	Engineering Computer	1	-	3	2	
	EEE211	Programming I	1	-	3	2	
	MEE221	Electrical Engineering I	2	-	-	2	
	MEE251	Engineering Drawing I	2	-	-	2	
	MEE271	Thermodynamics	2	-	-	2	
	CVE211	Manufacturing Technology	2	-	-	2	
	ENS211	Strength of Materials	1	-	-	1	
	ELA201	Engineering in Society	-	-	6	3	
	GST211	Lab/Workshop Practice History and Philosophy of science	1	1	-	2	
<b>First Semester Total</b>						<b>21</b>	
Second	EMA202	Engineering Mathematics II	2	1	-	3	
	MEE212	Engineering Mechanics	2	1	-	2	
	MEE242	Material Science	2	1	-	2	
	MEE262	Fluid Mechanics	2	1	-	2	
	CPE 204	I.T. in Engineering	2	1	-	2	
	ECP204	Computer and Computing	2	-	3	2	
	EEE212	Electrical Engineering II	2	-	-	2	
	GST221	Peace study and conflict resolution	2	2	-	2	
	CPS221		1	1	6	0	
	ELA202	Community Service	1	-	6	3	
	IUITS202	Programme Lab/Workshop Practice	1	-		1	
	EPS223	Igbinedion University Industrial Training Scheme Introduction to Entrepreneurial Skills	2	1	-	2	
	<b>Second Semester Total</b>						<b>23</b>
<b>Total Credits</b>						<b>44</b>	

### 200 LEVEL:

#### EMA201: Engineering Mathematics I

**3 Credits**

- (a) Complex Analysis: Roots of a complex number. Addition formulae for any number of angles. To express sine in series or cosines of multiple angles. Exponential function of a complex variable. Circular functions of complex

variable. Hyperbolic functions. Real and imaginary parts of circular and hyperbolic functions. Logarithmic functions of a complex variable. Real numbers; sequence and series; their convergence and divergence.

- (b) Vector: Force, moment and angular velocity. Vector differentiation and integration.
- (c) Linear Algebra: Linear spaces, algebra of determinants and matrices.
- (d) Calculus: Differentiations and applications. The mean value theorem and its applications. Extension of mean value theorem. Taylor and Maclaurin formulae, Leibnitz's theorem. (Application to the solution of differential equations with variable coefficients), de L'Hospital's. Partial derivatives of functions of two and more variables.

### **GST 211: History and Philosophy of Science**

**2 Credits units**

Man-his origin and nature, man and his cosmic environment, scientific methodology, Science and technology in the society and service of man, Renewable and non-renewable resources-man and his energy resources, Environmental effects of chemical plastics, textiles, wastes and other material, Chemical and radiochemical hazards. Introduction to the various areas of science and technology. Elements of environmental studies

### **CVE211: Strength of Materials**

**2 Credits**

Force systems composition and resolution of forces, moment, couple, resultants of coplanar and three dimensional force systems, graphical methods in statics. Mechanical isolation of bodies, free body diagrams, conditions for equilibrium of coplanar and three dimensional force systems.

Elasticity: concept of uni-axial stress and strain. Typical stress-strain curve in tensile testing, Hooke's law, Modulus of Elasticity, proportional limit, elastic limit, yield point, ultimate strength, etc. Safe working stress, factor of safety.

Stress and Strain in axially loaded bar, in bars of varying cross-section and in a bar due to its own weight. Poisson's ratio. Shear stress and strain. Complementary shear stress. Strain energy in simple tensile and shear stress. Composite bars. Temperature stresses.

Pre-stressing, stresses due to misfits, hoop and axial stresses in pressure vessels. Stresses in thin rotating rings, stresses in rotating rods. Bending of Beams: Calculation of reactions in statically determinate beams. Shearing force and bending moment diagrams. Relationship between load, shear force and bending moment. Theory of bending, second moment of area, bending stresses in beams.

Torsion: Elastic torsion of circular shafts, shafts of varying diameter, shafts with varying torque, compound shafts.

### **ECP201: Engineering Computer Programming**

**2 Credits**

Historical development of computers, functional components of computers, characteristics of a computer, types and classification of computers, computer hardware and software, computer programming statements, input and output, control statements, sub-programs. Solving simple problems using computers programming.

### **MEE221: Engineering Drawing I**

**2 Credits**

Introduction to geometrical constructions. Principles of tangency, construction of slopes. Tapers and Gradients. Fundamentals of descriptive geometry and projection drawing. Central, parallel. Axonometric and Orthographic Projections. Projections of points, lines,

plane figures and simple objects. True lengths. Orthographic projections of simple geometrical solids. Cylinder, Cone, pyramid, Prism, Sphere, Hemisphere. Topus I and II, Ring. Drawing of three orthographic projections in first angle from the isometric views of a detail. Non-circular curves. Construction of an ellipse, parabola, hyperbola, Ginusoid, spiral of Archimedes, involute, cycloid, epiroid, hypocycloid. Electronic draughting.

**EEE211: Electrical Engineering I 2 Credits**

Units. Basic circuit elements and their behaviour in DC circuits. Basic circuit laws and theorems. Introduction to A.C. circuit. Resonance, power and power factor. 3-phase circuits. Basic distribution system. Electrical Measurement: Voltmeters, Ammeters, Ohmmeters, Wattmeter, Energy meters, Measurement of three phase power.

**MEE271: Manufacturing Technology I 2 Credits**

Elementary introduction to types and organization of engineering workshops, covering jobbing, batch, mass production. Engineering materials, their uses and properties. Safety in Workshops and general principles of working. Bench work and fittings: hand tools, instruments.

Carpentry: Hand-tools, materials, types of joints and fastenings: Bolt, rivet, welding, brazing, soldering, measurement and marking; for uniformity, circularity, concentricity, etc. Standard measuring tools used in workshops: welding, brazing and soldering: principle, classification, power source.

**MEE 251: Thermodynamics I (2 Credits)**

Systems, stages, property, interactions, equilibrium, cycle, point and path functions temperature, etc. Thermodynamic Properties of Pure Substances: Perfect gas, specific and latent heats, equations of state. Phases of pure substances – solids, liquids and gases. Phase equilibria and changes critical point, properties of vapours, use of thermodynamic tables. Heat and Work Transfers first law of thermodynamics, general energy equation and Bernoulli's equation. Engine cycles, air-standard cycle, Otto-cycle, simple gas turbine cycle, Carnot cycle, heat pump, etc. Second law of thermodynamics, entropy irreversibility.

**ENS211: Engineer in Society 1 Credits**

- (i) Philosophy of Science
- (ii) History of Engineering and Technology
- (iii) Safety in Engineering and Introduction to risk analysis
- (iv) The role of Engineers in nation building
- (v) Invited lectures from professionals.

**EPS 223 Introduction to Entrepreneurial Skills (2 Credits)**

Introduction to entrepreneurship and new venture creation; Entrepreneurship in theory and practice; The opportunity, forms of business, staffing, marketing and the new venture; Determining capital requirements, raising capital; Financial planning and management; Starting a new business, Feasibility studies; innovation; Legal issues; insurance and environmental considerations. Possible business opportunities in Nigeria.

The role, principles and practice of entrepreneurship leading to self-employment. Focus on concept of entrepreneurship, identification of entrepreneurial resources or business prospects,



Atomic Structure: Review of atomic structure and bonding in materials. Atomic and molecular structure, molecular crystals and amorphous structure. The metallic state, Defects in crystals. Electronic structures and processes (conductors, semi-conductors and insulators). Alloy Theory: A simplified introduction to alloy theory illustrated by the Pb-Sn and Fe-C system. Application to industrially important alloys.

Engineering Properties of Materials: Engineering properties of materials and their control through changes in structure (Hot and Cold-working of metals, heat-treatment of steel, annealing, etc). Failure of metals, (Creep, fracture and fatigue). Corrosion and corrosion control.

Non-Metallic Materials: Non-metallic materials and their properties (glass, natural and synthetic rubber, plastics, ceramics and wood).

**MEE262: Fluid Mechanics I**

**2 Credits**

1. **Elements of Fluid Statics:** Fluid (water, liquid, air); Density; Pressure; Surface Tension; Viscosity; Compressibility, etc.
2. **Basic Flow Measuring Devices:** Orifices; Weir; V-Notch; Pitot Tube; Venturi Meter, Parshall Flume; Prandtl Tube, etc
3. **Static Pressure/Head and Pressure Gauges:**
  - 3.1. **Pressure Gauges:** U-Tube Manometer; Barometer; etc.
  - 3.1.1. **Static Pressure and Head:**
    4. **Hydro – Static Forces Exerted on Vessel Surfaces by Incompressible Fluid** Hydrostatic force; pressure and head; hydrostatic paradox; Hydraulic Jack, etc
    5. **Properties of Fluid Section and Buoyancy:** Properties of sections; Center of Area; Mass; Volume; Gravity. Buoyancy and Archimedes Principle.
6. **Introduction to Basic Fluid Flow**
  - 6.1. **Basics and Types of Flow:**
    - (i) Streamlines and Stream Tube;
    - (ii) One- Directional Flow; Two- Directional Flow and Three- Directional Flow.
    - (iii) Types of Flow: Uniform/Non-Uniform Flow; Steady/Non-Steady Flow; Laminar and Turbulent Flow; etc.
  - 6.2. **Introduction to Viscous Flow.**
7. **Introduction to Fluid Dynamics:** Mass; Energy Conservation Laws; Continuity of Flow Equations; Bernoulli's Equation; etc.

**EPS 223 Introduction to Entrepreneurial Skills**

**(2 Credits)**

Introduction to entrepreneurship and new venture creation; Entrepreneurship in theory and practice; The opportunity, forms of business, staffing, marketing and the new venture; Determining capital requirements, raising capital; Financial planning and management; Starting a new business, Feasibility studies; innovation; Legal issues; insurance and environmental considerations. Possible business opportunities in Nigeria.

The role, principles and practice of entrepreneurship leading to self-employment. Focus on concept of entrepreneurship, identification of entrepreneurial resources or business prospects, developing a business plan, conducting a market survey, sourcing finance, setting up a business organization, customer appraisal, keeping of basic business accounting records.

**ECP202: Engineering Computer Programming II**

**2 Credits**



Problem solving process, Computing software, computer languages, MATHLAB computing Terminologies, MATLAB as a calculator, variables and assignment statements, basic MATHLAB mathematical functions, suppressing output, product, division and power of Vectors, vectors, plotting elementary functions, Array operations creating specialized plot, Matrices - two Dimensional array, Script writing.

**CPE204: Information Technology in Engineering 2 Credits**

Introduction to Information Technology, Computer System, Characteristic of Computer System, Components of Computer Introduction to Word processing: Data Processing using Excel, slide presentation using MS Power Point, Flow chart, drawing of flow Chart using MS Visio, Computer network and communication.

**EEE212: Electrical Engineering II 3 Credits**

Physics of Devices: Atomic structure, material classification, electron emission, gas discharge devices, semiconductor materials, p-n junction diode and transistor. Transistor amplifier, D.C. and A.C. analysis of transistor amplifier circuits. Transistor switching characteristics. Rectification and D.C. power supplies, Transformers, Introduction to DC and AC machines.

*300 LEVEL ELECTRICAL/ELECTRONICS OPTION:*

SEMESTER	COURSE CODE	COURSE TITLE				COURSE CREDIT	PRE-REQUISITES
			L	T	P		
First	ELA301	Laboratory 1	-	-	6	2	ELA201/202
	EEE311	Electrical Circuit Theory I	3	-	-	3	EEE211, EEE212 EEE212,
	EEE321	Electromechanical Devices and Machines I	2	1	-	3	
	EEE331	Electrical/Electronic	2	1	-	2	
	EEE351	Measurements	2	1	-	2	
	EPS311	Electronic Circuit I	2	1	-	2	EPS223
	EMA301	Introduction to Entrepreneurship	2	1	-	3	EMA201/20
	CPE311	Engineering Mathematics III	2	1	-	3	2 ECP201
	GRE331	Basic Computer Engineering Research Methods & Technical Writing	1	1	-	2	
<b>First Semester Total</b>						<b>22</b>	
Second	ELA302	Laboratory II	-	-	6	2	ELA201
	EEE312	Electrical Circuit Theory II	2	1	-	3	EEE 311
	EEE322	Electromechanical Devices and Machines II	2	1	-	2	EEE321
	EEE332	Electromagnetic Theory I	2	1	-	2	EEE212
	EEE372	Electric circuits II	3	-	-	3	EEE 351
	EEE352	Digital Electronics	2	1	-	3	
	EMA302	Engineering Mathematics IV	3	1	-	3	
	EEE362	Logic Design and Digital	2	1	-	3	
	IUITS303	Circuits Igbinedion University Industrial Training Scheme	1	-	-	1	IUITS202

		<b>Second Semester Total</b>				<b>22</b>	
		<b>Total Credits</b>				<b>44</b>	

*COURSE DESCRIPTION FOR ELECTRICAL/ELECTRONICS:*

EEE 311: ELECTRICAL CIRCUIT THEORY I (3 credits)  
 Electric Fields: Fundamental concepts, energy storage. Magnetic fields: fundamental laws, field calculations, and energy storage. Magnetic circuits: simple calculation of magnetic circuits, B-H curves and core losses. Inductance: self and mutual inductance, coupled circuits. Transient and steady state response of circuits: RL, RC, RLC circuits, free and forced oscillation. Network analysis: network theorems; mesh and node analysis. One and two-port network: driving point functions, circuit parameters, interconnection and termination, transformation.

EEE 321: ELECTROMECHANICAL DEVICES AND MACHINES I (3 credits)  
 Review of electromechanical energy conversion, rotating magnetic field; performance and methods of speed control of D.C. Machines, Transformers; construction, operational phasor diagrams and equivalent circuits, determination of parameters from tests, auto-transformer, three phase transformer connections, groupings, tertiary windings. Instrument transformers: current transformers and potential transformers. Power transformers: parallel operation, switching, cooling and protection.

EEE 331: ELECTRICAL AND ELECTRONICS MEASUREMENT (2 credits)  
 Electron dynamics, cathode ray tube, application of the oscilloscope in measurement, a.c. and dc indicating instruments and their dynamic behaviour. DC and ac bridges and potentiometers. Sensors for transducers. Electronic instrument system: analogue instruments, digital instruments, analogue-to-digital and digital-to-analogue conversion technique.

EEE 351: ELECTRONIC CIRCUITS I (2 credits)  
 Free electrons motion in static electric and magnetic fields, electronic structure of matter, Conductivity in crystalline solids, theory of energy bands in conductors, insulators and semi-conductors: electrons in metals and electron emissions; carriers and transport phenomena in semi-conductors, characteristics of some electron and photo devices junction diodes and transistors, FETS, SCR, vacuum tubes, photo resistors, diodes, transistors, photocell and light emitting diodes. Elementary discrete devices-fabrication techniques and IC technology.

EMA 301: ENGINEERING MATHEMATICS III (3 credits)  
 Linear algebra, elements of matrices, determinants, inverse of matrix, theory of linear equations, eigen values and eigenvectors. Analytical geometry. Co-ordinate transformation - solid geometry, polar, cylindrical and spherical co-ordinates. Elements of functions of several variables. Numerical differentiation. Solution of ordinary differential equations curve fitting. Simple linear programming.

CPE 311: BASIC COMPUTER ENGINEERING (3 credits)

Microcomputer construction and manufacture. Minicomputer architecture, advantages and limitations. Type of memory elements, Rom, PROM, EPROM, main and secondary memories. Storage primitives, bits, bytes, word, registers, accumulators.

**GRE 331: RESEARCH METHODS AND TECHNICAL REPORT WRITING**  
(3 credits)

Principle of communication. Parts of technical reports: abstract, introduction, main body, conclusions and recommendation, tables, figures, graphs, illustration, references, appendices. Writing the first draft. Revising the first draft; content and structure. Audiences, scientific technical prose: spelling and scientific terminology using numbers and symbols.

Data: statistical analysis of data and display. Software support for various writing and graphic task. Use of Microsoft Power point

Preparation of curriculum vitae, research grant proposal, short talks and poster, and visibility report. Writing a thesis.

**EEE 312: ELECTRICAL CIRCUIT THEORY II (3 credits)**

Laplace transform methods in circuits analysis, transfer functions, pole-zero analysis, graphical representation. Basic state variable approach. Filters: rectifier filters. L-C filters, K-&M-derived filters, frequency response. Network graphs and topology: basic concepts, application to non-planar networks. Waveforms and harmonics: Fourier analysis, approximate harmonic analysis, circuits with non-sinusoidal excitation. Symmetrical components: basic concepts and simple application.

**EEE 322: ELECTROMECHANICAL DEVICES AND MACHINES II (2 credits)**

Induction motors, universal motors, reluctance motors, hysteresis motors. Magnetically coupled circuits, reluctance torque in rotating machines. Armature windings of electrical machines: Conductors, terms coils, coil-span, single and double layer windings. D.C. armature winding (lap and wave) connections. Principles of action of commutator and brush location, types of A.C. windings, e.m.f. of windings, distribution factor and coil-span factor, different harmonics. Basic rotating machines principles: elementary concepts, e.m.f. of distributed windings, rotating magnetic fields torque and voltage for different types of flux density and fluxes.

**EPS 311: Introduction to Entrepreneurship Studies**

**2 Credits**

This is the practical part of the programme, where students should be exposed to live ventures. This course is in two folds:

[A]. Theoretical bits to prepare students for the basics of the identified micro-business and industries within the university locality or nearby environs. (We propose the first four weeks of the 1<sup>st</sup> Semester).

[B]. The practical bits. This would be done in three different stages:

- I. Demonstrations/Exhibitions.
- II. Excursions for students, to visit owner – operated businesses – within the locality, neighbouring states – including national and international corporations where possible; such as Technology Incubation Centre (TIC) located in Benin City and;
- III. Mentoring scheme, in which mentors from within the university locality and neighbouring communities would be identified, contacted registered as a pool of counselors, to whom graduating students, who wish to participate in the scheme would go

for mentoring. Some of the ventures to be focused upon would be tailored along students' primary courses of studies. These would include, but not limited to:

- Owning/management your clinic/diagnostic laboratory/law firm.
- Soap/detergent/tooth brushes and toothpaste making firm
- Making of sanitary wares
- Glassware production/ceramic production
- Animal husbandry
- Dyeing/textile making
- Brewing
- Table water making factories
- Plumbing
- Vegetable oil and salt extraction factories
- Fisheries

**ELA301: ELECTRICAL LABORATORY I (2 credit)**

**A) ELECTRONICS CIRCUIT LABORATORY**

Three laboratory works designed to illustrate topics covered in electric circuits and physical electronics.

**B) ELECTRICAL ELECTRONICS MEASUREMENT LABORATORY**

Three laboratory works on electrical measurements to illustrate topics covered in Electrical Measurements and Instrumentation.

Two laboratory works on Electrical Circuits designed to illustrate topics covered in electrical circuits.

**ELA302: ELECTRICAL LABORATORY I (2 credit)**

**A) DIGITAL ELECTRONICS LABORATORY**

Three laboratories practical on digital electronic designed to illustrate topics covered in digital electronics.

Logic Gate and Circuit – AND, OR, NAND, NOR and Exclusive-OR.

Simple switching circuit for the OR and AND GATE, AND Gate in Diode – Resistor-logic and OR gate in diode – resistor-logic.

Simple switching circuit for the NAND gate. Diode Transistor-Logic (DTL), NAND gate and diode-transistor logic NOR gate.

Simple switching circuits illustrating the functioning of the NOR gate, exclusive-OR gate and comparator.

**B) ELECTRONIC CIRCUIT LABORATORY**

Three laboratory works designed to illustrate topics covered in electric circuits and physical electronics.

**EEE 332: ELECTROMAGNETIC THEORY I (2 credits)**

Vector analysis, Coulomb's law and electric field intensity; electric flux density. Gauss's law and divergence, energy and potentials, electric field in conductors and dielectrics. Poisson's and Laplace's equations. The steady magnetic field, magnetic force, flux and energy. Ampere's and Farada's law.

Magnetic fields in and around current carrying conductors, time varying magnetic and electric fields; conduction and displacement current.

Maxwell's equations (in rectangular co-ordinates and vector calculus notation)

**EEE 352 DIGITAL ELECTRONICS (3 credits)**

Analysis and design of logic gates of various families – diodes logic, RTL, TTL, ECL, MOS, and MOS of digital integrated circuits. Interfacing between various logic families. Concept of small, medium, large, and very large scale integration and their consequences. Some digital building blocks, flip flops, counters, registers and decoders. Introduction to D/A and A/D conversion principles.

**EMA 302: ENGINEERING MATHEMATICS IV (3 credits)**

Functions of a complex variables. Limits and continuity of functions of a complex variable. Deriving the Cauchy – Riemann equations. Analytic functions. Bilinear transformations, conform, mapping, contour integrals. Cauchy's theorem and its main consequences. Convergence of sequences and series of functions of a complex variables. Power series, Taylor series.

**EEE 362: LOGIC DESIGN AND DIGITAL CIRCUITS (3 credits)**

Digital Representation of information and Binary Arithmetic. Positional number systems, Binary coding of alphanumeric characters in the computer, simple error detecting and correcting codes (paritybits, Hamming codes), Arithmetic in various radio systems, Binary arithmetic in the combination logic. Boolean Algebra; switching function; truth table, Karnaugh maps etc; properties of switching function; canonical form; N and Nar design; don't cares", minimization of single output switching functions; simple combinational circuits design; Encoder, decoder, multiplexer, serial and parallel hold and full-adders, etc. Hazards in combinational circuits and other design problems such as fan-in, fan-out, attenuation, etc. Notion of feedback, state and delay in logic circuits; Basic difference between the synchronous sequential circuits; illustration of the sue of state transition equations, diagrams, table etc, in sequential logic by their use in defining the operation of synchronized on docked flip flops (such as r.s. J.K.T. etc, flop-flops). Edge triggered and Master slave flip-flops.

**EEE372: ELECTRONIC DEVICES AND CIRCUITS (3 Credits)**

Conduction in materials, material classification. Basic treatment of the P-N junction, BJTs, and FETs, I-V characteristics and switching properties. Simple linear and diode wave shaping. D.C biasing, Small signal models at low and high frequencies. Temperature effects. Analysis of single stage amplifiers

**300 LEVEL COMPUTER ENGINEERING OPTION:**

Semester	Course Code	Course Title	Spread			Course Credit	Pre-requisites
			L	T	P		
First	EMA301	Engineering Mathematics III	2	1	-	3	EMA201
	EEE321	Electromechanical Devices & machines	2	-	-	3	EEE212,
	EEE311	Electrical Theory I	2	-	-	3	EEE211
	EEE331	Elect/Elect Measurements	2	1	-	2	
	GRE331	Research Methods & Technical Writing	2	-	-	2	
	EEE351	Electronics Circuits I	2	1	-	3	EEE211,
	CPE311	Basic Computer Engineering	3	-	-	3	EEE212

	EPS311 ELA301	Introduction to Entrepreneurship Studies Electrical Lab. 1	2 -	1 -	- 2	2 2	
		<b>First Semester Total</b>				<b>23</b>	
<b>Second</b>	EMA302	Engineering Mathematics IV	3	1	-	3	
	EEE312	Electric Circuit Theory II	2	1	-	3	EEE311
	EEE332	Electromagnetic Waves	2	1	-	2	EEE321
	EEE352	Digital Electronics	2	1	-	3	EEE351
	EEE362	Logic Design & Digital Circuit	2	1	-	3	
	CPE322	Operating Systems	2	1	-	2	
	CPE302	Computer Programming & Language	1	-	2	2	ECP201
	ELA302	Electrical Lab. II	-	-	2	2	
	IUITS302	Igbinedion University Industrial Training II				1	IUITS202
		<b>Second Semester Total</b>				<b>21</b>	
		<b>Total Credits</b>				<b>44</b>	

### 300 LEVEL COURSE DESCRIPTIONS FOR COMPUTER ENGINEERING

EMA 301: ENGINEERING MATHEMATICS III (3 credits)

Linear algebra, elements of matrices, determinants, inverse of matrix, theory of linear equations, eigen values and eigenvectors. Analytical geometry. Co-ordinate transformation - solid geometry, polar, cylindrical and spherical co-ordinates. Elements of functions of several variables. Numerical differentiation. Solution of ordinary differential equations curve fitting. Simple linear programming.

**EEE311: ELECTRICAL CIRCUIT THEORY 1 3 Credits**

Electric Fields: Fundamental concepts, energy storage. Magnetic fields: fundamental laws, field calculations, energy storage. Magnetic circuits: simple calculation of magnetic circuits, B-H curves and core losses. Inductance: self and mutual inductance, coupled circuits. Transient and steady state response of circuits: RL, RC, RLC circuits, free and forced oscillation. Network analysis: network theorems; mesh and mode analysis. One and two-port network: driving point functions, circuit parameters, interconnection and termination, transformation.

GRE 331: RESEARCH METHODS AND TECHNICAL REPORT WRITING  
(2 credits)

Principle of communication. Parts of technical reports: abstract, introduction, main body, conclusions and recommendation, tables. Figures, graphs, illustration, references, appendices. Writing the first draft. Revising the first draft; content and structure. Audiences, scientific technical prose: spelling and scientific terminology using numbers and symbols.

Data: statistical analysis of data and display. Software support for various writing and graphic task. Use of Microsoft Power point for presentation, defence etc

Preparations of curriculum vitae, research grant proposal, short talks and poster, and visibility report. Writing a thesis.

**EEE321 ELECTROMECHANICAL DEVICES AND MACHINES I  
(3 credits)**

Review of electromechanical energy conversion, rotating magnetic field; performance and methods of speed control of D.C. Machines.

Transformers: construction, operational phase diagrams and equivalent circuits, determination of parameters from tests, Auto transformers, three-phase transformer connections, groupings, tertiary windings. Instrument transformers: Current transformers and potential transformers. Power transformers: Parallel operation, switching, grouping, cooling, protection.

**EEE331: ELECTRICAL AND ELECTRONICS MEASUREMENT (2 credits)**

Electron dynamics, cathode ray tube, application of the oscilloscope in measurement, a.c. and dc indicating instruments and their dynamic behaviour. DC and ac bridges and potentiometers, Sensors for transducers. Electronic instrument system: analogue instruments, digital instruments, analogue-to-digital and digital-to-analogue conversion technique.

**EEE351: ELECTRONIC CIRCUIT 1 (3 credits)**

Free electrons motion in static electric and magnetic fields, electronic structure of matter, Conductivity in crystalline solids, theory of energy bands in conductors, insulators and semi-conductors: electrons in metals and electron emissions; carriers and transport phenomena in semi-conductors, characteristics of some electron and photo devices junction diodes and transistors, FETS, SCR, vacuum tubes, photo resistors, diodes, transistors, photocell and light emitting diodes. Elementary discrete devices-fabrication techniques and IC technology.

**ELA301: ELECTRICAL LABORATORY I (2 credit)**

**A) ELECTRONICS CIRCUIT LABORATORY**

Three laboratory works designed to illustrate topics covered in electric circuits and physical electronics.

**B) ELECTRICAL ELECTRONICS MEASUREMENT LABORATORY**

Three laboratory works on electrical measurements to illustrate topics covered in Electrical Measurements and Instrumentation.

Two laboratory works on Electrical Circuits designed to illustrate topics covered in electrical circuits.

**EMA 302: ENGINEERING MATHEMATICS IV (3 credits)**

Functions of a complex variables. Limits and continuity of functions of a complex variable. Deriving the Cauchy – Riemann equations. Analytic functions. Bilinear transformations, conform, mapping, contour integrals. Cauchy's theorem and its main consequences. Convergence of sequences and series of functions of a complex variables. Power series, Taylor series.

**EEE312: ELECTRICAL THEORY II (3 credits)**

Laplace transform methods in circuits' analysis, transfer functions, pole-zero analysis, graphical representation. Basic state variable approach. Filters: rectifier filters. L-C filters, K-&M-derived filters, frequency response. Network graphs and topology: basic concepts, application to non-planar networks. Waveforms and harmonics: Fourier analysis, approximate harmonic analysis, circuits with non-sinusoidal excitation. Symmetrical components: basic concepts and simple application.

**CPE302: COMPUTER PROGRAMMING AND LANGUAGE I (2 Credits)**

Program organization, characteristics, constants and variables, arithmetic expression, standard functions, arithmetic, assignment, statement, input/output statement and adding of C++ and PL/ programs. Transfer of control (conditional/unconditional transfer). Relational expression, loops, arrays and subscripted variables, functions and subroutine, logical variables and operators, introduction to object oriented programming.

**EEE352: DIGITAL ELECTRONICS (3 credits)**

Analysis and design of logic gates of various families – diodes logic, RTL, TTL, ECL, MOS, and MOS of digital integrated circuits. Interfacing between various logic families. Concept of small, medium, large, and very large scale integration and their consequences. Some digital building blocks, flip flops, counters, registers and decoders. Introduction to D/A conversion principle.

**EEE362: LOGIC DESIGN AND DIGITAL CIRCUIT (3 credits)**

Digital Representation of information and Binary Arithmetic. Positional number systems, Binary coding of alphanumeric characters in the computer, simple error detecting and correcting codes (paritybits, Hamming codes), Arithmetic in various radio systems, Binary arithmetic in the combination logic. Boolean Algebra; switching function; truth table, Karnaugh maps, etc. properties of switching function; canonical form; N and Nar design; don't care; minimization of single output switching function; simple combinational circuit design, Encoder, decoder, multiplexer, serial and parallel hold and full-adders, etc. Hazards in combinational circuits and other design problem such as fan-in, fan, attenuation, etc. Notion of feedback, state and delay in logic circuits; Basic difference between the synchronous sequential circuits; illustration of the use of state transition equations, diagrams, table, etc, in sequential logic by their use in defining the operation of synchronized on docked flip flops (such as R-S,J-K. etc, flip-flops). Edge triggered and Master slave flip-flops.

**EEE 332: ELECTROMAGNETIC THEORY I (3 credits)**

Vector analysis, Coulomb's law and electric field intensity; electric flux density. Gauss's law and divergence, energy and potentials, electric field in conductors and dielectrics. Poisson's and Laplace's equations. The steady magnetic field, magnetic force, flux and energy. Ampere's and Farada's law. Magnetic fiels in and around current carrying conductors, time varying magnetic and electric fields; conduction and displacement current. Maxwell's equations (in rectangular co-ordinates and vector calculus notation)

**CPE322: OPERATING SYSTEMS (2 Credits)**

Sequential access: Processes, Data Structures, Program Structure, Program construction. Concurrent Processing: Concurrency, Disjoin Processes, Time-Dependent Region, Buffers, Readers, Writer deadlock. Processors and store management process multiplexing, timing constraint, semaphore and event implementation, store addressing, placement and algorithms, fetch and execute cycle. Scheduling Algorithms. Emptive/Non-Pre/Emptive scheduling, job shop, sampling and systems. Resource and peripheral devices, privilege/and non-privilege operations, real-time synchronization, conversational access and fire systems. System advantages/disadvantages. Example of operation namely: units, dos (Dos, MS-Dos), Windows 95, 98, Window NT and Limitations.

**ELA302: ELECTRICAL LABORATORY I (2 credit)**

A) DIGITAL ELECTRONICS LABORATORY



Three laboratories practical on digital electronic designed to illustrate topics covered in digital electronics.

Logic Gate and Circuit – AND, OR, NAND, NOR and Exclusive-OR.

Simple switching circuit for the OR and AND GATE, AND Gate in Diode – Resistor-logic and OR gate in diode – resistor-logic.

Simple switching circuit for the NAND gate. Diode Transistor-Logic (DTL), NAND gate and diode-transistor logic NOR gate.

Simple switching circuits illustrating the functioning of the NOR gate, exclusive-OR gate and comparator.

**B) ELECTRONIC CIRCUIT LABORATORY**

Three laboratory works designed to illustrate topics covered in electric circuits and physical electronics.

*400 LEVEL ELECTRICAL/ELECTRONICS OPTION*

SEMESTER	COURSE CODE	COURSE TITLE	SPREAD			COURSE CREDIT	PRE-REQUISITES
			L	T	P		
First	EEE 401	Laboratory III	-	-	6	2	EEE 341/342
	EEE 411	Electromechanical Devices & Machines III	2	1	-	3	EEE 321/322
	EEE 421	Energy Generation & Utilization	2	1	-	3	EEE 351
	EEE 431	Basic Control Theory	2	1	-	3	EEE 333
	EEE 441	Electronic Circuits III	2	1	-	3	EEE351
	EEE 451	Telecommunication Principles	2	1	-	3	EMA 301/302
	EMA401	Engineering Mathematics V	2	1	-	3	EEE 331
	EEE 461	Engineering Mathematics V	2	1	-	3	EEE332
	EEE471	Electrical and Electronic Instrumentation	2	1	-	3	EEE332
First Semester Total		Electromagnetic Theory II				26	
Second	INDUSTRIAL TRAINING (IUIITS 402)		SIX MONTHS			6	
Total Credits					32		

**400 LEVEL COURSE DESCRIPTION FOR ELECTRICAL/ELECTRONICS**

**EMA401: ENGINEERING MATHEMATICS V**

**3 Credits**

- (a) **Complex Variables:** Complex functions of a real variable. Elementary functions of a complex variable. Differentiation of complex variables. Cauchy-Riemann equations. Analytic and Harmonic functions. Integration

- of complex variables. Cauchy's theorem, poles and residues. Simple examples of expansion in Taylor and Laurent series. Conformal mappings.
- (b) **Integral Transforms:** Laplace and Fourier transforms. Application to boundary value problems.
  - (c) **Introduction to Non-Linear Differential Equations:**
  - (d) Stability of Linear systems and the phase portraits.
  - (e) Long time behaviour of the solution of non-linear differential equations deduced from related linear systems.
  - (f) **Calculus of Variation:** Lagrange's equation and applications. Hamilton's principle and Geodesic problems (formal proofs of the related theorems will not be required). Isoperimetric problems:
    - (i) **Probability:** Probability laws, conditional probability and dependence of events. Discrete and continuous probability distribution. The probability function; the density function and the distribution function. Expected values; moments, standard distributions, binomial, Poisson, normal.
    - (ii) **Statistics:** Regression and Correlation: The method of least squares; linear and curvilinear regression. Correlation, total, partial and multiple. Large sampling theory: Sampling distribution of mean, proportion, difference of means and proportion. Confidence interval for mean, proportion, difference of two means and proportions.
  - (g) **Test of Hypotheses:** Types I and II errors. Power of a test. Large sample-test concerning the mean, proportion, difference of two means and proportions.

EEE 411 ELECTROMECHANICAL DEVICES & MACHINES III (3 credits)

**Synchronous Machines: Theory of the cylindrical motor machine, synchronous reactance and voltage regulation by different methods, parallel operation and operation on finite bus bars, faults on machines, methods of starting electrical machines, methods of protection of electrical machines.**

EEE 421:ENERGY GENERATION AND UTILIZATION (3 credits)

**Energy and Mankind: Importance of energy to mankind, Nigerian Energy Resources and Demand, National Energy Policy. Structure of Electric power system; electric power development in Nigeria. Sources of Energy: Conventional sources, fossil-fuel, hydro-power, and nuclear power plants. Unconventional sources, solar, wood, geothermal, tidal and wave, bio-mass and fuel cells. Power plants and their layouts, parallel operation of alternators. Voltage and frequency control. Supply economics. Tariffs. Power factors improvement. Utilization: Energy utilization in lighting, heating, welding, electrolytic and electrometallurgical processes. Lighting design for different purposes. Resistance, induction, eddy-current and dielectric heating. Arc furnaces. Resistance and arc welding. Extraction and refining of metals.**

EEE 431: BASIC CONTROL THEORY (3 credits)

**Introduction: Concept of feedback control, Mathematical models of physical system. Review of Laplace transforms, derivation of system transfer functions. Block Diagrams Reduction Techniques Block diagram algebra. Signal flow graphs. Mason's rule. Analysis and design in S-plane: Steady state and transient response due to step and ramp input. Time response specifications. Effect of external load torques on steady state performance. Use of P+I, P+D lag, lead and positive acceleration feedback. Error rate damping. Stability analysis: System type and error constants. Concept of stability,**

**Routh's stability criterion. Frequency Response Methods: analysis of systems using polar plots. Bode plots, M.N. circles and Nichol's chart. Nyquist compensation. Design of systems with lead, lag and lead-lag.**

**Compensators in frequency domain system identification from experimental data. Analogue computing; Basic computing elements. Solution of linear ordinary differential equations. Magnitude scaling-Equal coefficient rule. Simulation of simple transfer function.**

**D.C. Bias design, analysis and Design of single stage and multiple stage amplifiers at low and high frequencies, Darlington pair, cascade amplifier, Bootstrapping. Negative feedback concepts and design of feedback, amplifiers.**

**EEE401: ELECTRICAL POWER AND MACHINES LABORATORY (2 credits)**

**Three laboratory works on electric machines designed to illustrate topics covered in Electromechanical Devices and Machines.**

**TELECOMMUNICATION LABORATORY (1 credit)**

**Three laboratory practicals on telecommunication designed, to illustrate topics covered in Communication principles as well as topics such as passive filters, tuned circuits and active analogue filters.**

**EEE 441: ELECTRONICS CIRCUITS II (3 credits)**

**D.C. Bias design: analysis and Design of single stage and multiple stage amplifiers at low and high frequencies, Darlington pair, cascade amplifier, Bootstrapping. Negative feedback concepts and design of feedback amplifiers. The differential amplifier and basic analysis of the operational amplifier. Computer aided design of electronic circuits.**

**EEE 451: TELECOMMUNICATION PRINCIPLES I (3 credits)**

**Transmission lines, rectangular wave guide junctions and resonators; Radiation antennas. Electromagnetic propagation in the troposphere and ionosphere. Microwave filters.**

**EEE 461: ELECTRICAL AND ELECTRONICS INSTRUMENTATION (3 credits)**

**Errors in measurements: Classification and functional analysis, performance of instruments systems, calibration. Control system components; Amplifiers, sensing devices, pumps and controllers, error detectors and output elements. Instrumentation methods; Measurement and recording of time, frequency, temperature, pressure, etc; transducers. Instrument transformers, pulse transformers, energy meters and metering, information storage techniques. Electronic instrumentation, digital techniques, Analogue/digital signal processing: survey of modern instrumentation components. Nonlinear computing elements.**

**EEE471: ELECTROMAGNETIC THEORY II 3 Credits**

**Derivation of Maxwell's equations. Electromagnetic potential and waves. Propagation of electromagnetic waves in free space and in materials, dielectrics, conductors and**

ionized media; penetration depth, reflection and transmission at boundaries; poynting vectors and power flow; Fundamentals of transmission.

*400 LEVEL COMPUTER ENGINEERING OPTION*

Semester	Course Code	Course Title	L	T	P	Course Credit
1 <sup>st</sup>	EMA401	Engineering Mathematics V	2	1	-	3
	EEE431	Control Theory	2	-	-	3
	EEE441	Electronics Circuit II	2	1	-	3
	EEE451	Communication Principles	2	1	-	3
	CPE421	Digital Devices&Logic Circuit	2	1	-	3
	CPE431	Switching Theory & Logical Design	1	1	-	2
	CPE441	Introduction To Computer Architecture	2	1	3	3
	EEE461	Instrumentation	2	-	-	3
	CPE401	Control & Computer Lab. III	-	-	1	1
	ELA401	Electrical Lab	-	-	1	1
		<b>First Semester Total</b>				<b>25</b>
<b>2nd</b>	<b>IUITS 401</b>	<b>Industrial Training(6 months)</b>				<b>6</b>
		<b>Second Semester Total</b>				<b>6</b>
		<b>Total Credits</b>				

**400 LEVEL COURSE DESCRIPTIONS FOR COMPUTER ENGINEERING**

**EEE431: CONTROL THEORY (3 credits)**

Introduction: Concept of feedback control, Mathematical models of physical system. Review of Laplace transforms derivation of system transfer functions. Block Diagrams Reduction Techniques. Block diagram algebra. Signal flow graphs. Mason's rule. Analysis and design in S-plane: Steady state and transient response due to step and ramp input. Time response specifications. Effect of external load lorgues on steady state performance. Use of P+I, P+D lag, lead and positive acceleration feedback. Error rate damping. Stability analysis: System type and error constants. Concept of stability, Routh's stability criterion. Frequency Response Methods: analysis of system using polar plots. Bode plots, M.N. circles and Nichol's chart. Nyquist compensation. Design of systems with lead, lag and lead-lag. Compensation in frequency demainystem identification from experimental data. Analogue computing: Basic computing elements. Solution of linear ordinary differential equations. Magnitude scaling-Equal coefficient rule. Simulation of simple transfer function. D.C. Blas design, analysis and Design of single stage and multiple stage amplifiers at low and high frequencies, Darlington pair, cascade amplifier, Bootstrapping. Negative feedback concepts and design of feedback amplifiers.

**EEE411: ELECTRONIC AND TELECOMS LABORATORY III (1 credit)**

Three laboratory practicals on telecommunication designed, to illustrate topics covered in Communication principles as well as topics such as passive filters, turned circuits and active analogue filters.

**CPE401: COMPUTER AND CONTROL LABORATORY III**

Some selected laboratory practicals in computer and control engineering, to illustrate topics covered in digital devices, switching theory and logic circuit and design.

**EEE441: ELECTRONIC CIRCUITS II (3 credits)**

D.C. Bias design: analysis and Design of single stage and multiple stage amplifiers at low and high frequencies, Darlington pair, cascade amplifier, Bootstrapping. Negative feedback concepts and design of feedback amplifiers. The differential amplifier and basic analysis of the operational amplifier. Computer aided electronic circuit design.

**EEE451: TELECOMMUNICATION PRINCIPLES I (3 credits)**

Transmission lines, rectangular wave guide functions and resonators; Radiation antennas. Electromagnetic propagation in the troposphere and ionosphere. Microwave filters.

**EEE461: ELECTRICAL AND ELECTRONICS INSTRUMENTATION  
(3 credits)**

Errors in measurements: Classification and functional analysis, performance of instruments systems, calibration. Control system components; Amplifiers, sensing devices, pumps and controllers, error detectors and output element. Instrumentation methods; Measurement and recording of time, frequency, temperature, pressure, etc., transducers. Instrument transformers, pulse transformers, energy meters and metering, information storage techniques. Electronic instrumentation, digital techniques, Analogue/digital signal processing. Survey of modern instrumentation components. Nonlinear computing elements.

**CPE421: DIGITAL DEVICES AND LOGIC CIRCUITS**

Introduction to Analysis and Design of Digital Systems. Boolean algebra and Karnagh Maps. Implementation of Logic expression using logic base. Introduction to circuit devices. Minimization of Boolean function: by stable or memory circuit; pulse waveforms, IC a stable multi-vibrator, MST waveforms, generator, cloth, fleep-flops, decoding binary-to-decimal numbers, FET gates and CMOS multivibrators. State machine analysis and design; state assignments, redundant stage, sequential counters and synchronous systems, synchronous system approach to digital systems design, top down design, trial and error methods. Von Neumann machines and memory systems.

**CPE431: SWITCHING THEORY AND LOGIC DESIGN**

Switching devices; minimization of Boolean functions. Tabular minimization and multiple-out circuits. Special realization and codes; special realization and codes. Sequential circuits and synthesis of clock mode sequential circuits. Pulse-mode circuits. Level mode sequential circuits. LSI, MSI and threshold logic.

SEMESTER	COURSE CODE	COURSE TITLE				COURSE CREDIT	PRE-REQUISITES
			L	T	P		
First	GRE 501	Engineering Management I	3	-	-	3	EEE 421  EEE 441 EEE 451  IUIITS402 CPE311
	EEE 511	Electrical Energy Transmission and Distribution	3	-	-	3	
	EEE 521	Power System Engineering	2	1	-	3	
	EEE 531	Reliability and Maintainability of				3	
	EEE 541	Electrical and Electronic Equipment	2	1	-	2	
	EEE 551	Equipment	2	1	-	2	
	EEE 561	Electronic Circuit III	2	1	9	3	
	CPE521	Telecommunication Principle II	2	1	-	2	
		Project I					
	Microprocessor Fundamentals and Applications						
<b>First Semester Total</b>						<b>21</b>	
Second	GRE 502	Engineering Management II	3	-	-	3	EEE511/521 EEE441  EEE321/322/411  EEE521
	EEE 562	Project II	-	-	9	3	
	EEE 502	Electrical Services Design	3	-	-	3	
	EEE 522	Industrial Electronic Design	2	1	-	3	
	EEE 542	Telecommunication Systems	2	1	-	3	
	EEE 572	Electric Drives and Power Electronics	2	1	-	3	
	EEE 532	Electronics	2	1	-	3	
	EEE 552	<b>REQUIRED COURSES</b>	2	1	-	3	
	EEE582	Electrical Machine Design (POWER)	2	1	-	3	
	CPE 542	Digital Signal Processing (TELECOMMS)	2	1	-	3	
		<b>FREE ELECTIVES</b>					
	Control Systems Engineering						
	Computer Networking						
<b>Second Semester Total</b>						<b>21</b>	
<b>Total Credits</b>						<b>42</b>	

Note: students can only offer 1 of the required course

*500 LEVEL COURSE DESCRIPTION FOR ELECTRICAL/ELECTRONICS*

**At the 500 level the students are expected to register Electrical/Electronics Engineering courses and a Management course (GRE501 & GRE502) common to all students at this level in the College.**

EEE 511: ELECTRICAL ENERGY TRANSMISSION AND DISTRIBUTION  
(3 credits)

**Modes of power transfer, transmission and distribution parameters, equivalent circuit of a line, transmission line design, overhead line and underground cable system, overhead line construction, voltage drops in lines, conductor design for transmission and distribution lines. Substation layout, neutral earthing, National and International Regulations government overhead lines.**

EEE 521: POWER SYSTEMS ENGINEERING (3 credits)

Representation of Power System. One-line diagram, Per-unit and percent methods. System impedance and reactance diagrams. Reduction of system diagrams. Load flow studies: Load flow equation, load flow solution methods. Fault studies: Calculation of short-circuit KVA for symmetrical and unsymmetrical faults. Phase shifts of PPS and NPS currents in star-delta transformers. ZPS diagrams of generator-transformer units. Power system stability studies: Basic concept and definition, etc. Switch-gear: circuit breakers versus switches. Types of circuit breakers (self-blast, oil, air-blast, SF<sub>6</sub> etc). Current zero interrupting theory. Resistance and capacitance switching. Protection: Types of relays (Buchholz's, non-directional, directional, distance, differential etc).

**Protection of Power System components: Protection circuits using static relays. Saturable reactors. Protection of generators, transformer units, Busbar protection and feeder protection schemes. Impedance protection. Carrier protection. Protection by means of digital computers. Voltage surges in a system with insulated neutral. Protection against surges, Neutral earthing methods. Digital Computers in power system studies.**

EEE 531: **RELIABILITY AND MAINTAINABILITY OF ELECTRICAL AND ELECTRONIC COMPONENTS (3 credits)**

Introduction to reliability, maintainability, availability, Elementary reliability theory, Application to power systems and electronic components; Test characteristics of electrical and electronic components. Types of faults. Designing for higher reliability. Packaging, Mounting, Ventilation, Protection from humidity, dust.

EEE 541: ELECTRONIC CIRCUITS II (2 credits)

The push-pull and power amplifiers. Digital logic circuits (KTL, DTL, TTL, etc), switching characteristics, OP-AMP applications: active filters, comparators, analogue computing etc. Oscillator circuits; switching circuits: Multi-vibrators and flip-flops. Power electronic: Stabilized power supplies, power control.

EEE 551: **TELECOMMUNICATION PRINCIPLES II (2 credits)**

Time and frequency analysis of telecommunication signals; Fourier series and Fourier transforms. Gaussian noise and its statistical representation: signal to noise ratio, noise factors and figure definition and measurements. Introduction to telecommunication systems: Modulation and demodulation principles for A.M. and F.M., simple modulators and

demodulators, pulse modulation principles. Information theory and coding: Shannon and Hartley laws.

EEE 561 AND 562: PROJECT (6 credits)

This course last for one academic session. Each student must undertake a project under the supervision of a Lecturer, submit a comprehensive project report and present a seminar at the end of the year. A project status report is to be presented at the end of the first semester. Each student must attend Engineering seminars.

EEE 502: ELECTRICAL SERVICES DESIGN (3 credits)

Lighting installation, power installation. Energy supply and distribution. Choice of cables and conductor, wiring system and accessories choice of outdoor low voltage cable protection in low voltage applications, low voltage equipment. Earthing and testing of electrical installations. Earth resistance measurement. Illumination. Power supply regulations: national and international. Design concepts of electrical services and the corresponding electrical drawings.

EEE 512: POWER SYSTEMS, PLANNING AND DESIGN (3 credits)

Overall planning of power systems and design: Power system equipment, selection and application. Sub-station Designs: general requirements, electrical layout and specifications, overhead lines and underground cable design, Transmission and distribution system design, Preparation of Bills of Engineering Measurement and Evaluation (BEME). Computer Aided Design of power systems.

EEE 522: INDUSTRIAL ELECTRONIC DESIGN (3 credits)

Characteristics and industrial applications of thyristors and other SCR devices. Transducers and their applications in sensing light, voltage, pressure, motion, current, temperature, etc. Mechanical relays, solid state relays and stepping motors. Real time control and remote control concepts in instrumentation, Microprocessor and microcomputer based systems. Fire alarms, burglar alarms and general home and industrial instrumentation.

EEE 532: ELECTRICAL MACHINES DESIGN (3 credits)

Materials: conducting, insulating and magnetic material use electrical machines. Magnetic circuit of rotating machines: Ampere turn calculations for dc, induction and synchronous machines. Design of transformers: core, and shell types, output equation and specific loading, design of core, yoke, windings and cooling systems, reactance calculations. Design of dc machines: Main dimensions, pole, field winding, armature winding, commutator, Design of induction and synchronous machines: main dimensions, stator and rotor. Design methods for machines; losses, cooling methods, temperature rise, standard ratings.

EEE 542: TELECOMMUNICATION SYSTEMS (3 credits)

Introduction to the following telecommunication systems; telephone, telegraph, Radio and television, radar, sonar and Laser. A detailed study of telephone and television system will be done. Introduction to optical communication.

Introduction to Antenna, Definition of elementary parameter related to radiation patterns, (radiation resistance, gain directive, directive area). Introduction to antenna arrays.



Linear arrays; broadside and end field arrays. Radio propagation in helosphere, troposphere and in stratified media. Principles of scatter propagation applications in general broadcast (television and satellite communication) systems. Radar systems (Nature of radar equations, composition of a radar system, application of different types of radars).

EEE 552: DIGITAL SIGNAL PROCESSING (3 credits)

Discrete signals and Z-transform, digital Fourier Transform, Fast Fourier Transform. The approximation problem in network theory. Synthesis of low-pass filters. Spectral transforms and their application in synthesis of high-pass and band-pass filters. Digital filtering, digital transfer function, one-dimensional recursive and non-recursive filters; Computer techniques in filter synthesis. Realization basic image processing concepts.

EEE 582: CONTROL SYSTEMS ENGINEERING (3 credits)

Review of basic control theory. Analysis and design using root locus. System optimization using error criteria. Non-linear systems: Describing function and phase plane methods. Multivariable system. Advanced analogue and hybrid computing. Control schemes for electric Drives. Practical feedback control loops and their effects on stability; displacement, velocity, power factor and reactive power control sensors; Gain requirements and accuracy, loop transfer function; logic circuits and static switching control applications. Timing and counting circuits.

EEE 572: ELECTRIC DRIVES AND POWER ELECTRONICS (3 credits)

**Electric Drives:**

Individual, group and collective drives; review of starting and running characteristics of electric motors, thermal rating, duty cycle, heating and cooling time constant of motors; dynamic performance and Mechanics of motor-load systems; load fluctuation and load equalization; speed control and speed-time relation of motors; electric braking; energy consumption; selection of motors for specific services.

**Power Electronics:**

Basic characteristics, specification and ratings of thyristors, phase control; thyristor modules and trigger pulse circuits, current limiting device, converters and inverters, choppers and cyclo-converters, speed control of d.c and a.c. motors using thyristors, frequency control of inverters and converters.

EEE 582: COMPUTER NETWORKING (3 credits)

Computer information system. The internet; Internet services, internet address and protocols. Network planning; Classifications and topology. Cabling in LAN, WAN. Network rules and guidelines. Bridges switches, Routers, Routers functions and connections in computer Networking. Design of basic Networks in building complexes.

EEE 592: COMPUTER ENGINEERING (3 credits)

Combinational and synchronous sequential circuits. An overview of computer architecture and organization. Micro-processors: micro-programming, machine and assembly language programming. (Emphasis in this course will be on machine and assembly language programming of, as an example, a microprocessor, basic ideas of programming and data structures will be illustrated through programming assignments), micro-processor applications; Impact IC technology.

*500 LEVEL COMPUTER ENGINEERING OPTION:*

Semester	Course Code	Course Title	L	T	P	Course Credit	
<b>First</b>	GRE501	Engineering Management I	3	-	-	3	
	EEE531	Reliability & Maintainability of Electrical and Electronics Component	1	1	-	2	
	EEE541	Electronics Circuit III	1	1	-	2	
	CPE511	Digital Component & Systems	1	1	-	2	CPE311
	CPE521	Microprocessor Fundamentals and Applications	2	1	-	2	CPE311
	CPE531	Software Engineering	2	1	-	2	
	CPE541	Data Communications and Network	2	1	-	2	
	CPE551	Artificial Intelligence	2	1	-	3	
	CPE561	Project	-	-	9	3	IUITS402
		<b>First Semester Total</b>				<b>21</b>	
<b>Second</b>	GRE502	Engineering Management II	3	-	-	3	
	EEE522	Industrial Electronics Design	2	1	-	3	
	EEE552	Digital Signal Processing	2	1	-	3	EEE321/ 322
	EEE572	Electric Drives and Power Electronics	2	1	-	3	
	CPE542	Computer Networking	2	1	-	3	CPE311
	CPE552	Simulation and Modeling	2	1	-	3	
	CPE562	Project	-	-	9	3	CPE561
			<b>Elective</b>				
	CPE532	Hardware System Studies	2	1	-	3	
	CPE512	Computer Graphics	2	1	-	3	
	CPE513	Management Information System	3	-	-	3	
CPE514	Advanced Programming	2	-	1	3	CPE302	
		<b>Second Semester Total</b>				<b>21</b>	
		<b>Total Credits</b>				<b>42</b>	

*Note: students can only offer 1 of the elective courses*

### **500 LEVEL COURSE DESCRIPTIONS FOR COMPUTER ENGINEERING**

#### **EEE531: RELIABILITY AND MAINTAINABILITY OF ELECTRICAL AND ELECTRONIC COMPONENTS (3 credits)**

Introduction to reliability, maintainability, availability, elementary reliability theory, application to power systems and electronic components Test characteristics of electrical and electronic components. Types of fault. Designing for higher reliability. Packaging Mounting, Ventilation, Protection from humidity, dust.

#### **EEE541: ELECTRONIC CIRCUITS II (3 credits)**

The push-pull and power amplifiers. Digital logic circuits (KTL, DTL, TTL, etc), switching characteristics, OP-AMP applications: active filters, comparators, analogue computing, etc. Oscillator circuits, switching circuits, Multi-vibrators and flip-flops. Power electronic: stabilized power supplies, power control.

**EEE551: TELECOMMUNICATION PRINCIPLES II (3 credits)**

Time and frequency analysis of telecommunication signals; Fourier series and Fourier transforms. Gaussian noise and its statistical representation: signal to noise ratio, noise factors and figure definition and measurements. Introduction to telecommunication systems: Modulation and demodulation principles for A.M. and F.M., simple modulators and demodulators, pulse modulation principles. Information theory and coding. Shannon and Hartley Laws.

**EEE560: PROJECT (6 credits)**

This course last for one academic session. Each student must undertake a project under the supervision of a Lecturer, submit a comprehensive project report and present a seminar at the end of the year. A project status report is to be presented at the end of the first semester. Each student must attend Engineering seminars.

**EEE552: DIGITAL SIGNAL PROCESSING (3 credits)**

Discrete signals and Z-transform, digital Fourier Transform, Fast Fourier Transform. The approximation problem in network theory. Synthesis of low-pass filters. Spectral transforms and their application in synthesis of high-pass and band-pass filters. Digital filtering, digital transfer function, one-dimensional recursive and non-recursive filters; Computer techniques in filter synthesis. Realization basic image processing concepts.

**EEE562: CONTROL ENGINEERING (3 credits)**

Review of basic control theory. Analysis and design using root locus. System optimization using error criteria. Non-linear systems. Describing function and phase plane methods. Multivariable system. Advanced analogue and hybrid computing. Control schemes for electric Drives. Practical feedback control loops and their effects on stability; displacement, velocity, power factor and reactive power control sensors; Gain requirements and accuracy, loop transfer function; logic circuits and static switching control applications. Timing and counting circuits.

**EEE582: COMPUTER NETWORKING (3 credits)**

Computer information system. The internet. Internet services, internet address and protocols Network Planning. Classifications and topology. Cabling in LAN, WAN. Network rules and guidelines. Bridges switches, Routers functions and connections in Computer Networking. Design of basic Networks in building complexes.

**EEE592: COMPUTER ENGINEERING (3 credits)**

Combinational and synchronous sequential circuits. An overview of computer architecture and organization. Micro-processors: micro-programming, machine and assembly language programming. 9Emphasis in this course will be on machine and assembly language programming of, as an example, a microprocessor, basic ideas of programming and data structures will be illustrated through programming assignments), micro-processor applications; Impact IC technology.

**CPE511: DIGITAL COMPONENTS AND SYSTEM (3 credits)**

The memory system – introduction, multiple data registers, register address decoding and selecting and combining register outputs. Random-Access Memory (RAM) a typical RAM

device, mechanical and electrical characteristics, functions characteristics, configuring memory devices to create large memories; address coding and Timing considerations of RAM usage. Read-Only Memory (ROM) – Mask programmable Read-Only Memory (EPROM). The processor-input-output signals and basic functional characteristics. A microprocessor system configuration.

**CPE521: COMPUTER SYSTEMS ANALYSIS (2 credits)**

Operational analysis of scientific business and industrial data processing systems; system-flow-charting and modeling, computer simulation; specification of computer hardware/software systems for effective simulation; cost/benefit analysis of alternative systems, optimal system design. Case studies of typical systems.

**CPE552: ARTIFICIAL INTELLIGENCE (2 credits)**

Introduction: Definition of AI concepts in engineering medical and numerical applications. Intelligent computers, levels of functions, basis of design, unicellular, multi-cellular, APLC concepts and multi-media systems. Missiles and robotics machines and degree of sensitivities. Expert system as are offshoot of AI, knowledge of inference (inference reasoning human – machine – human, machine-human-machine). Knowledge of automated forms. Military controlled equipment and targets (e.g. rockets). Computer aided design (CAD) and introduction to genetic programming. Brain swapping and knowledge programming.

**CPE525: COMPUTER ARCHITECTURE (2 credits)**

Introduction to design techniques and synthesis of digital computers ALU CONTROL, CPU, I/O DEVICES and co-processors. Principles of computer structure and design as applied to major computer component functions. Bus: architecture, plug and play systems. Duplex, double 8888 module and single non-module. Design methodology, processor and CPU design, memory organization, input-output communications and multiple CPU systems.

**CPE531: COMPUTER SOFTWARE ENGINEERING (2 credits)**

Survey and analysis of important programming languages, machine languages and operating systems, compiler construction, bit, word liens compilation syntax and logic, diagnostic check and parity control, debugging and processing techniques. Binary I/O systems (BIOS). ROM and RAM: Level device handlers. Direct Memory Access (DMA) Interrupt Request Acknowledge (IRA) Memory, display generation of points, vector and graphic displays, interactive versus passive displays, analogue and digital storage, scanning of spectral, feature recognition and graphical software.

**CPE541: DIGITAL COMPUTER & COMMUNICATION NETWORKS (2 credits)**

Communication within computer systems addressing and data bases; CPU memory-I/O devices communications. Communication between lost versus parallel communication. Hardware elements of networks; design, terminals, modems, multiplexes and concentrators. Message and package switching, software elements of computer network – host operating systems – Network topology and protocols.

**CPE522: PROCESS AND MACHINE CONTROL (2 credits)**

Digital, Analog and hybrid computer systems of control of industrial and commercial processes, and for the numerical control of machines. Reliability, stability and sensitivity analysis.

**CPE532: ANALOG AND DIGITAL COMPUTERS (2 credits)**

Random Variables, probability, moments and limit theorems. Random processes, stationary, periodicity, correlation functions and power spectra. Sampling theorem, narrow and band processes. Linear systems with random inputs. Filter analog and digital. Noise characteristics. Introduction to statistical decision theory as applied to binary detection and receiver operating characteristics.

**CPE561/562: FINAL YEAR PROJECTS (3 credits)**

A project is selected by each final year student from a list of broad options areas viz: Computers, Telecommunications, Electronics and Applications, etc. A student working under the supervision of an academic staff within the Department is required to submit a report on his findings. He will be required to present these findings at a seminar and undergo oral examination on the project.

**CPE513: COMPUTER GRAPHICS (2 credits)**

Computerized pattern recognition systems; distortion tolerance, resolution and discrimination. "Light pen" and other computer-assisted methods for analysis and synthesis of architectural structures, mechanical systems, electromagnetic and electronic networks.

**CPE512: MACHINE AND ASSEMBLY LANGUAGE**

Utilization of extensive software library for BASIC Computer system. Monitor systems; supervisors, disk utility programs, assemblers, compilers, core load builders, detailed study of compiler for binary Boolean formula translation (BITRAN, FORTRAN, PASCAL, C and C+)

**COURSE DESCRIPTION (ELECTIVE)**

**CPE512: MACHINE AND ASSEMBLY LANGUAGE (2 credits)**

Data and instruction formats; addresses; registers, load store and branch instructions, arithmetic, logic and shift instructions; executive, I/O instructions and the interrupt process. Assembler mnemonics; program control and storage allocation statements; data and symbol definition; calls to subroutines. Debugging technique. and assembly language in mixed language programs.

**CPE 519: MICRO-PROCESSOR FUNDAMENTAL APPLICATIONS  
2 Credits**

- Historical Development and Structure
- Microprocessor systems
- Microprocessor Architecture
- Support Logic for Microprocessor
- Current Development
- Software Considerations and Requirements
- Micro Controllers

**CPE510: MICRO-PROCESSOR SOFTWARE DEVELOPMENT****2****Credits**

Overview of embedded system, software development  
Alternative Development, Environments and Tools  
Recent Trends and Selections criteria  
Assembly programming and Assembler  
Programming with a High level language, compiler specific integration of modules  
Linking and locating of code to the target system  
Programming of EPROM, Loading function.  
Design and implementation of software (using a development system)  
Resident and Remote Debuggers in testing debugging  
Methods and tools for configuration management and coordination.

**EPE520: COMPUTER HARDWARE****2 Credits**

Review of the Computer Systems  
Computer Availability  
Peripherals  
Interface and Inter-connections of Computer Systems  
Memory modes  
Computer reliability.

**3.0 FINAL YEAR PROJECT AND THESIS**

A project is extremely important part of the engineering degree programme. Although lectures and laboratory experiments are designed to improve learning process, project supplements this process by starting the student on to the path of independent thinking. The student will be required to carry out independently a small project which would enable him to develop his thought processes, creativity, problem-solving ability, initiative, and attitude to work.

**3.1 The nature of the project may be one or more of the following:**

- (a) Developing a theory for solving a problem
- (b) Developing computational procedures for solving a problem
- (c) Setting up an experiment for demonstrating an establishing theory.
- (d) Building a working system form established plans and testing the system
- (e) Developing a design routine for a device, constructing it (if required for the project ) and testing it
- (f) Investigating specific problems which may arise in governmental Institution, Industrial firms, and other private bodies of corporation in the country.
- (g) Investigating causes of failure of any specific plant or device and suggesting remedies, if any.

Examination regulation stipulates that “project and thesis” would carry marks equivalent to two 2-hour paper in the final examination. For the purpose of making, an oral examination will be held in which the student will be required to defend his project.

**3.2 How to Select a Project:**

A project should normally be chosen from fields related to the specific subject selected by the student for the final year degree examination.

In selecting a topic for a project, it is expected that the student goes through the subject titles of papers (in the field of interest) published during the last ten years in engineering journals. Some of these journals are present in Appendix.

A student, first of all go through the subject headings as listed in “Civil Engineering Abstracts” or “Applied Science and Technology Index”. The specific journal in which the paper of interest is published is then consulted and all references listed in the paper collected. A likely project or problem if found the student discuss it with his lecturers who will instruct as to whether equipment could be made available for the project and whether any staff member would be willing to act as a supervisor.

The student would then prepare a rough outline of the proposed project listing all references materials and submit it to the supervisor. The supervisor after establishing feasibility of the project, would give final go-ahead or possibly suggest something different, or modification in which the supervisor himself is interested.

The ideal situation is one where the chosen project coincided with a supervisor’s area of interest. For this reason, member of staff are requested to design projects in their areas of research interest. Students can then choose their project from a list of such project topics.

Whenever practicable, students should know their projects long before the beginning of the session.

### **3.3 Basic precepts regarding Engineering Projects:**

Two of the most important aspects of a project work include the preparation and organization. Preparation and organization are of the utmost importance in writing the report on the project if someone else is to understand the work.

Preparation requires a careful reading of the instruction and collateral material (references, manuals etc), a clear understanding of each step involving in the required procedures before the actual execution of the project, and often a written planned programme (rough outline of proposed, degree to be investigated, preliminary calculations, etc).

Organization is a guiding principle to be followed throughout then preparation, execution and reporting of a particular. A good organisation, entails the neat construction or design of the model they may be easily visualized and checked, systematic entering of data with descriptive headings and entering of all relevant information regarding equipment used.

### **3.4 Writing Thesis:**

#### **3.4.1 Allocation of Available Time:**

A student should aim at his project at about the middle of the second semester, and submit the typed and bound copies of the project two weeks to the beginning of second semester examinations.

The time schedule should be roughly as follows:

Initial preparation.....	6 weeks
Practical Work connected with the project.....	10 weeks
Write-up and submission of draft Thesis.....	4 weeks
Supervisor’s and comment on draft project.....	3 weeks
Typing, correction and binding of final thesis.....	4 weeks

#### **3.4.2 Organization of Thesis:**

Before adopting a format for your project, it is necessary to read the information for author of any Civil Engineering journal reference:

Menzel, Jones and Boyd, “Writing a Technical Paper”, McGraw-Hill, 1961.

A formal report on a project may follow below and could include the following:

- (a) Abstract: A concise description of the report including the purpose and most important result in the order in which they occur in the report paper.
- (b) Introduction: A complete statement of the problem an outline of the theory involved in the solution, and a brief statement concerning the expected results.
- (c) Body: of the report should include;
  - (c1) Procedure: a brief outline of the actual constructional experimental, computational, or other methods followed including necessary circuit diagrams.
  - (c2) Presentation: Of Result, an appropriate presentation of the original and processed data- lists, tables, graphs. Sample calculations must be shown.
  - (c3) Conclusion: an interpretation of the results as they apply to the objectives of the project set out in the introduction. Any deviation from the expected or theoretical results is to be accounted for.
  - (c4) Recommendations: any recommendations arising from the project work should be presented.
  - (c5) Limitations of Work: some assumptions made to simplify the work are examined in the light of the results.
- (d) References: Should be to commonly available publications and books. These should be listed at the end of the paper and number 1, 2, 3 etc. All reference should be referred to at least one in the text so as to justify their presence and relevance to the project. It is good practice to refer to a reference by its number (shown as superscript or subscript or written within parenthesis) in the text.
- (e) Appendices (if any): it is normal to set out construction details of a model, complex mathematical derivation of a theory, lengthy computation procedures etc., in appendices. They should be referred to in the text to justify their inclusion.

### 3.4.3 Binding and Number of Copies Required:

A minimum of four copies of the project is required, after typing the top copy (for the Department) and one other copy (for interview panel) should be handed over to the Department after Binding. The student should bind the remaining two copies (at his own expense) one of which should be handed over to the supervisor.

### 3.4.4 Organisation and Display of the Project Work:

Proper organization of a project work may be achieved by making reference to the following publications:

Wilson, E.B.: "An introduction to Scientific Research", McGraw-Hill, 1952.

Baird, DC.: "Experimentation: An Introduction to measurement Theory and Experiment Design" Prentice hall, 1962.

The student should normally display the essentials (short theory, models, input data, desired results, etc) of a project and talk about or demonstrate them to visitors, or discuss his project in a seminar held during the session.

Display materials should therefore be prepared and preserved until the day of the oral examination. These should prove invaluable in explaining the project work to the member of the examination panel or to the external examiner.

### 3.4.5 Project and Thesis Assessment:



Your supervisor is the only other person apart from you who understand the problem as much as you do. Therefore, his opinion about you will count most in assessing your work. In giving his opinion, he should probably consider the following:

- (a) The level of supervision or guidance he has been able to give you;
- (b) The level of achievement you attain during the project with or without his guidance;
- (c) Your ability to solve the problem posed by the project and how much of his was through your own effort;
- (d) Whether you kept a day-to-day record (in the log-book) of the progress made and whether you discussed with him from time to time any problems you been confronted with.

The supervisor's marking of the project will be to the extent of 20%, the remaining 80% being allocated to the panel for the oral Examination (20%) and to a second reviewer/assessor. The members will assess you on the following:

- (a) Your understanding of the subject you investigated
- (b) Your ability to answer questions (and explain points) on the work you have done.
- (c) Your project presentation and layout.

You may further be interviewed by the external examiner, or whenever a review of the grading by the supervisor and the panel become necessary.

#### 4.0 BECOMING A CHARTERED ENGINEER

To become a fully qualified professional engineer, graduates must be registered by the Council for the Regulation of Engineering in Nigeria (COREN). They can then use the letters C.Eng. After their names, indicating that they are a Chartered Engineers. The requirements are: an enhanced degree, i.e. a B.Eng., and a minimum of two years' approved industrial training with an appropriate company. The national youth service year is often counted as one if spent with an appropriate engineering enterprise.

S/N	Name of staff	Rank/Designation	F/T	Qualification, dates obtained and specialization, membership of professional association and number of publications
1	P.B. OSOFISAN	Professor	Full-time	B.Sc(Hons) Electrical Engineering 1969 , ,M.Sc Control Systems Engineering 1973,Ph.D(1979) University of Stuttgart,W.Germany, MNSE (1991), COREN (1994),
2.	N.P. OROBO	Senior Lecturer	Full-time	
3	J.A IGIMOH	Lecturer I	Part-time	M.Sc(Hons) Computer Engineering 1983,Kharkov PolytechnicalInstitute,Ukraine, MNSC (2003)

4	P.I. EZOMO	Lecturer I	Full-time	HND(Electronic/Telecoms)1980, M.Eng (Electronic/Telecommunication) 2000 UNIBEN, MNSE,1995, R.Engr (COREN)1996
5	F.A. IZILIEN	Lecturer I/HOD	Full-time	B.Eng (Elect/Elect) 2001, AAU, M.Eng (Electronic/Telecommunication) UNIBEN, 2008, MNSE(2008), R.Engr (COREN)2010
7	S. UKAGU	Lecturer II	Full-time	B.Eng (Elect/Elect) 2004 UNIBEN M.Eng (Electronic/Telecommunication) 2011 UNIBEN.
8	G. MATHURINE	Lecturer II	Full-time	B.Eng (Elect/Elect) 2006 UNIBEN M.Eng (Electronic/Telecommunication) 2011 UNIBEN.
9	D.O. OKONKWO	Lecturer II	Full-time	B.Eng (Elect/Compt) 1986 UNN,M.Eng (Power and Machines) 2003 UNIBEN, MNSC(1994), COREN(2012)
10	ADESEYE .Y. AKINGBOYE	Technical Officer	Full- Time	B.Tech (Computer Science) LAUTECH 2005, M.Tech. (Computer Sc.) LAUTECH. 2012
11	I.A. ONYEGBADUE	Lecturer II	Full-time	B.ENG Electrical and Electronic Engineering IUO 2011, M.Eng (Electrical Engineering- Power) 2014
12	I. ADELEKE	Graduate Assistant	Full-time	B.TECH Computer Engineering LAUTECH 2006, M.Eng (Computer Engineering) 2014 UNIBEN
13	C.M. UGADA	Graduate Assistant	Full-time	B.Eng (Elect/Elect) 2008, ESUST, Enugu

**Table 1.7: Technical Staff**

S/N	Name of Staff	Rank/Designation	F/P/Time	Qualification and Date obtained
1.	O. OREBANJO	Technical Officer II	Full-Time	B.Eng (Hons), 2000, FUT Bauchi,PGD in Electronic Engineering 2008 LAUTECH,MNSC(2008),M NIEEE,MSESN,MNATE,M NCS,R.Engr.(COREN) 2012
2	N.O. AMASOWOMWAN	Technologist I	Full-Time	Diploma in Computer Engineering,2003UNIBEN, B.ENG(Electrical and

				Electronic Engineering 2008 UNIBEN
3	S.S. UMEOZOR	Technologist II	Full-Time	ND (Elect/Elect) 2010 Federal Polytechnic Mubi, Adamawa State, HND (Elect/Elect) 2013 Federal Polytechnic Mubi, Adamawa State

## **MECHANICAL ENGINEERING**

### **DEPARTMENTAL VISION**

The vision of the department is to become one of the best Mechanical Engineering Departments in any Nigerian University with national and international acclaim. A department where the advancement of engineering and technology is continuously dynamic. Its graduate will become very capable and environmental-friendly engineers who would be very relevant in the public and private sectors of the economy and rapid industrialization and development of Nigeria.

### **DEPARTMENTAL MISSION**

The departmental mission is to develop into a national resource that will continue to support the development of Nigeria, its economic diversification to make it responsive to the needs of government, industry and society. Thus, the department will provide:

- State-of-the-art technological and Engineering training that prepares the graduates for responsibilities of the workplace.
- To produce qualified and competent Mechanical Engineers in such areas of specialization as –metallurgy, fluid, mechanics of machine and Thermodynamics
- Engage in appropriate research activities, and, hence, produce the most sought-after engineers by all employers of labour, post graduate schools and research institutes.
- Establish industry-institution linkages for mutually beneficial relationships

- Strive to become a Centre of Excellence in Engineering and Technology in the West-African sub-region where expertise and facilities to accelerate the pace of industrial development can be provided.

## OBJECTIVE OF PROGRAMME

The objective of this programme is in consonance with the realization of national needs and aspirations vis-à-vis industrial development and technological emancipation. The graduates must therefore be resourceful, creative, knowledgeable and able to perform the following:

- To design Mechanical Engineering projects and supervise their implementation.
- To design and implement components, machines, equipment and systems.
- To design and develop new products and production techniques in industries.
- To install and maintain complex engineering systems so that they can perform optimally in our environment.
- To be able to exercise original thought, have good professional judgment and be able to take responsibility for the direction of important tasks.

## MINIMUM CREDIT LOAD FOR GRADUATION

S/N	NUMBER OF YEARS	MODE OF ENTRY	MINIMUM CREDIT LOAD FOR GRADUATION
1	5	UME	213
2	4	D/E (200 LEVEL)	164
3	3	D/E (300 LEVEL)	118

### 100 Level

Semester	Course Code	Course Title	L	T	P	Credits
First	CHM111	General Chemistry I	2	1		3
	CHM112	Organic Chemistry I	2			2
	MTH111	Algebra & Trigonometry	2	1		3
	MTH112	Calculus/Real Analyses	2	1		3
	PHY111	General Physics I (Mechanical and Properties of Matters)	2	1		2
	PHY112	General Physics II (Fluid Dynamics/Elasticity)	2			2
	PHY113	General Physics III (Thermal Physics)	2			2
	GST111	Communication in English I	2			2

	<b>GST112</b>	Logic, Philosophy and Human Existence	<b>2</b>			<b>2</b>
	<b>GST113</b>	Nigerian Peoples and Culture	<b>2</b>			<b>2</b>
		<b>TOTAL</b>				<b>23</b>

<b>Semester</b>	<b>Course Code</b>	<b>Course Title</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>Credits</b>
<b>Second</b>	<b>CHM121</b>	General Chemistry II	<b>2</b>			<b>2</b>
	<b>CHM122</b>	General Chemistry				<b>2</b>
	<b>CHM123</b>	Organic Chemistry II	<b>2</b>			<b>2</b>
	<b>MTH121</b>	Vectors, Geometry/Statistics	<b>2</b>			<b>3</b>
	<b>MTH122</b>	Differential Equations & Dynamics	<b>2</b>			<b>3</b>
	<b>PHY100</b>	Practical Physics			<b>3</b>	<b>1</b>
	<b>PHY121</b>	Electromagnetism & Modern Physics	<b>2</b>			<b>2</b>
	<b>PHY122</b>	Modern Physics I	<b>2</b>			<b>2</b>
	<b>PHY123</b>	Waves, Vibration & Optics	<b>2</b>			<b>2</b>
	<b>GST121</b>	Use of library, study skills and ICT				<b>2</b>
	<b>GST122</b>	Communication in English II				<b>2</b>
	<b>GST123</b>	Communication in French				<b>2</b>
	<b>IUITS102</b>	Igbinedion University Industrial Training Scheme				<b>1</b>
		<b>TOTAL</b>				<b>26</b>

### **FIRST SEMESTER**

#### **CHM111 – General Chemistry I**

**3 Credits**

Relationship of Chemistry to other sciences. Atoms, subatomic particles, Isotopes, Molecules. Avogadro's Number. Mole concept. Dalton's Theory, Modern concepts of atomic theory. The laws of chemical combination. Relative atomic masses. Nuclear binding energy, fission and fusion.

The states of matter:

- (v) Gases: Gas Law. The general gas equation.
  - (vi) Liquids and Solids – Introduction to lattice structure, Isomorphism. Giant molecules.
- Introduction to the Periodic Table. Hydrogen and hydride Chemistry of Groups 0, I, II elements. Acid-Base properties of oxides.

**CHM112: Organic Chemistry I 2 Credits**

(a) **General Principles of Organic Chemistry:**

- (i) Introduction: Definition of Organic Chemistry. Classification of Organic compounds. Homologous series. Functional groups.
- (ii) General procedure for isolation of purification of organic compounds.
- (iii) Determination of structure of organic compounds. Elemental analysis, percentage composition, empirical and molecular formula, structural formula.
- (iv) Isomerism. Structural isomerism and stereo isomerism.
- (v) Electronic theory in organic chemistry. Atomic models, quantum numbers, atomic orbital. Hybridization leading to formation of carbon-carbon, single, double and triple bonds. Hydrogen bonding, electronegativity. Dipole moment. Polarization, bond energy. Inductive and resonance effects.

(b) **Non-Polar Functional Group Chemistry:**

- (i) Alkenes: Structure and physical properties. Substitution actions including mechanism.
- (ii) Alkenes – Structure and physical properties. Reaction: addition (of  $H_2$ ,  $X_2$ ,  $HX$ ,  $H_2O$ ,  $O_3$ ), etc; Oxidation polymerization. Stereoisomerism – definition, geometrical and optical isomers, conditions for optical isomerism.
- (iii) Alkynes, structure. Acidity of acetylenic hydrogen. Reaction: addition of  $H_2$ ,  $X_2$ ,  $HX$ ,  $H_2$ ,  $H_2$ ,  $O$ , etc. Test for Alkynes.
- (iv) Benzene: Structure and aromaticity of benzene. Introduction to electrophillic.
- (v) Introduction to petro-chemistry. Origin of petroleum importance, fractional distillation of crude oil, components properties and uses. Octane number, cracking.
- (vi) Coal tar chemistry, origin, production, important components and uses.

(c) **Practical Organic Chemistry:**

Experiments in basic techniques in organic chemistry: determination of melting points and boiling points, filtration, distillation, fractional distillation, re-crystallization, tests for functional groups: organic preparations.

**MTH111 – Algebra And Trigonometry 3 Credits**

Real number system: simple definition of integers, rational and irrational numbers. The principle of mathematical induction. Real sequences and series; elementary notions of convergence of geometric, arithmetic and other simple series. Theory of quadratic equations. Simple inequalities: absolute value and the triangle inequality. Identities: partial fractions.

Sets and Subsets, union, intersection, complements, properties of some binary operations of sets; distributive, closure, associative, cumulative laws with examples, relations in a set; equivalence relation. Properties of set functions and inverse set functions, permutations and combinations.

Binomial theorem for integer  $n$  – o index: Circular measure, trigonometric functions of angles of any magnitude. Addition and factor formulae.

Complex numbers; algebra of complex numbers, the Argand diagram, De Moivre's theorem, n-th root of unity.

**MTH112: Calculus/Real Analyses - 3 Credits**

Elementary functions of a single real variable and their graphs, limits and the idea of continuity. Graphs of simple functions; polynomial, rational, trigonometric, etc., rate of change tangent and normal to a curve. Differentiation: as limit of rate of change of elementary functions, product quotient, function of function rules. Implicit differentiation of exponential functions. Logarithmic and parametric differentiation. Use of binomial expansion for any index. Stationary values of simple functions: maxima, minima and points of inflexion, integration by substitution and by parts. Definite integral: Volume of revolution, area of surface of evolution.

**PHY111: Mechanics, Thermal/Physical Properties of Matters - 2 Credits**

**Mechanics:** Scalars and Vectors: Addition and resolution of vectors. Rectilinear motion and Newton's law of motion. Inertial mass and gravitational mass; free fall; projectile motion; deflecting forces and circular motion. Newton's law of gravitation; satellites, escape velocity. Gravitational potential, potential; potential well; special case of circular motion. Momentum and the conservation of a momentum. Work, power energy; units. Potential energy for a gravitational field and elastic bodies; kinetic energy conservation of energy; energy stored in a rotating body. Kinetic energy in elastic and inelastic collisions.

**PHY112 General Physics 2 Credits**

**PHY113 Thermal Physics: 2 Credits**

Temperature, heat, work; heat capacities; second law, Carnot cycle; thermodynamic ideal gas temperature scale. Thermal conductivity; radiation; black body and energy spectrum, Stefan's law.

Kinetic model of a gas: equation of state, concept of diffusion, mean free path, molecular speeds, Avogadro's number, behaviour of real gases. A model for a solid: inter-particle forces in solids, liquids and gases; physical properties of solids.

Crystalline structure: Close packing, orderly arrangements, elastic deformation of an ordered structure; interference patterns and crystals.

Model for Matter: Surface energy and surface tension, plastic deformation; thermal and electrical properties of metals.

**GST111: Communication in English I (2 Credits)**

Effective communication and writing in English, Language skills, writing of essay answers, Comprehension, sentence construction, Outlines and paragraphs, collection and organization of materials and logical presentation, punctuation.

**GST 112: Logic Philosophy and Human Existence (2 Credits)**

A brief survey of the main branches of Philosophy. Symbolic logic, special symbols in symbolic logic-conjunction, negation, affirmation, disjunction.

**GST 113: Nigerian Peoples and Culture (2 Credits)**

Study of Nigerian history, culture and arts in pre-colonial times, Nigerian's perception of his world, culture areas of Nigeria and their characteristics, Evolution of Nigeria as a political unit, Indigene/settler phenomenon, Concepts of trade, economic self-reliance, social justice, Individual and national development, Norms and values, Negative attitudes and conducts (cultism and related vices), Re-orientation of moral environmental problems.

**SECOND SEMESTER**

**CHM121: General Chemistry II 2 Credits**

Acids, Bases and Salts. Quantitative analysis. Theory of volumetric analysis – operations and methods. Calculations: mole, molality, molarity. Behaviour of electrolytes. Water. Colligative properties. Ostwald's dilution law. Arrhenius, Bronsted-Lowery, Lewis concepts and applications. Buffers. Introduction to reaction rates. Equilibria and equilibrium constants. Solubility products. Common ion effects. Precipitation reactions.

**CHM122 Practical Chemistry 2 Credits**

Theory and Practice of quantitative thermal analysis, acid-base oxidation-reduction precipitation and complexometric titrations. Gravimetric analysis. Calculations data analysis and organic analysis for elements in groups IA, IIIA, 11B, IV. Thermal analysis of carboxylic etc.

**CHM123: Organic Chemistry II 2 Credits**

(a) **Polar Functional Group Chemistry:**

- (i) Hydroxyl group – Alcohol and phenols. Classification. Acidity-comparison. Important methods of preparation. Reactions: with metals, bases, alkyl halides. Oxidation, dehydration. Tests for alcohols and phenols., importance.
- (ii) Carbonyl group – Aldehydes and ketones structure: Physical properties. Important methods of preparation. Reactions: Tollen's reagent, Fehling's solution, benedict's solution, Iodoform reaction ; with HCN,  $\text{NaHSO}_3$ ; alcohols, including mechanisms, with ammonia, hydrazines and their derivatives, including mechanisms; aldol condensation. Tests for aldehydes and ketones. Importance.
- (vii) Carboxylic group: Mono-carboxylic acids. Structure. Physical properties. Acidity and resonance. Important methods of preparation, from alcohols, aromatic hydrocarbons, through Grignard's reagent. Reaction with bases. Conversion to esters, amides, halides and anhydrides. Tests for carboxylic acid. Importance.
- (viii) Carboxylic acid derivatives: Anhydrides acid halides esters and amides. Change of reactivity when OH of acid is replaced by  $-\text{OOCOR}-\text{X}$   $-\text{OR}$ ,  $-\text{NR}$ . Reaction with water, alcohols, ammonia and amines.  $\text{LiAlH}_4$ , Test for esters.
- (vi) Amino group – Amines. Structure, Physical properties. Important methods of preparation. Reaction with acids, basicity and salt formation; Alkylation,



acylation, with nitrous acids. Heisenberg method of separation. Tests for amines, importance.

(b) **Miscellaneous Topics:**

- i. Fats and Oils: Definition, importance, Saponification, Soaps and detergents. Modes of cleaning action. Reaction of soap with hard water, mineral acids. Drying oils, mode of action, use in paints and varnishes.
- ii. Amino acids, Proteins: Definition, classification, essential amino acids, special properties and reactions, iso-electric point, tests, importance.
- iii. Carbohydrates: Definition, classification, importance, nomenclature, structure and reactions of glucose.
- iv. Natural Products: Main classes (other than lipids carbohydrates and proteins); Steroids, terpenoids, alkaloids, prostaglandens definition, importance, examples.

**MTH121: Vectors, Geometry And Statistics:**

**3 Credits**

- (a) Vector and Coordinate: Types of vectors; points, line and relative vectors. Geometrical representation of vectors in 1 – 3 dimensions. Addition and vectors and multiplication by scalar; Components of vectors in 1, 3 dimensions; direction cosines. Linear independence of vectors. Point of division of a line. Scalar and vector products of two vectors. Simple applications. Two-dimensional coordinates geometry; straight lines, angle between two lines, distance between points. Equation of circle, tangent and normal to a circle. Properties of parabola, ellipse, hyperbola. Straight lines and planes in space, direction cosines; angle between line and between lines and planes; distance of a point from a plane; distance between two skew lines.
- (b) Statistics: Introduction of statistics. Diagrammatic representation of descriptive data. Measures of location and dispersion for ungrouped data. Grouped distribution measures of location and dispersion for grouped data. Problems of grouping. Associated graphs. Introduction to probability: sample space and events, addition law, use of permutation and combination in evaluating probability. Binomial distribution. Linear correlation; scatter diagram, product-moment and rank correlation. Linear regression.

**MTH122: Differential Equations And Dynamics**

**3 Credits**

- (a) Differential Equations: Formation of differential equation of 1<sup>st</sup> degree and 1<sup>st</sup> order. Variables, separable, exact, homogenous and linear, differential equations of the 2<sup>nd</sup> order with constant coefficients.
- (b) Dynamics: Resume of simple kinematics of a particle. Differentiation and integration of vectors with respect to a scalar variable. Application to radial and transverse, normal and tangential, components of velocity and acceleration of a particle moving in a plane. Force, momentum and laws of motion; law of conservation of linear momentum. Motion under gravity, projectile. Simple cases of resisted vertical motion. Motion in a circle (horizontal and vertical). Law of conservation of angular momentum. Applications of the law of conservation of energy. Work, power and energy. Description of Simple Harmonic Motion (SHM). SHM of a particle attached to an elastic string or spring. The simple pendulum. Impulse and change in momentum. Direct impact of two smooth spheres, and of a sphere on a smooth plane.
- (c) Rigid body motion: Moments of inertia, parallel and perpendicular axes theorems. Motion of a rigid body in plane with one point fixed, the compound pendulum. Reactions at the pivot. Pure rolling motion of a rigid body along a straight line.

**PHY100: Practical Physics****1 Credits**

Students are expected to carry out a minimum of 12 major experiments covering the main aspects of the courses taken in the year. pre-requisites: 0-Level or WASC.

**PHY121: Electromagnetism and Modern Physics****2 Credits**

Electric field: Strength, flux and the inverse square law; electrostatic force between two charged particles; flux model for the electric field. Energy stored in an electric field, electrical potential due to dipole.

Steady direct currents: Simple circuits; potential difference resistance, power, electromotive force, Kirchoffs laws; potential divider, slide-wire potentiometer, bridge circuits, combining resistances.

Capacitors: Capacitance, combination of dielectrics, energy stored, charging/discharging. Electromagnetic effects; electromagnetic forces, electric motors, moving coil galvanometer, ammeter, voltmeter, electromagnetic induction, dynamo.

Alternating currents: Simple A.C. circuits, transformers, motors and alternating currents.

Magnetic field: The field at the center of a current-carrying flat coil of a current carrying solenoid, outside a long solenoid, flux model and magnetic fields. Electromagnetic

induction: Induction in a magnetic field; magnitude and direction of induced e.m.f; energy stored in a magnetic field; self-inductance. Electricity and matter: Current flow in an electrolyte, Millikan experiment; conduction of electricity through passes at low pressure, cathode rays; photo-electricity.

**PHY122 Modern Physics I****2 Credits**

Structure of atom: Atomic theory, X-rays, Planck Quantum theory; Wave-particle nature of matter: scattering experiment of Geigar and Marsuen, Rutherford atom model, Bohr's atom model.

Structure of nucleus: Composition of nucleus, artificial transmutation of an element, natural transmutation of an element; discovery of neutron, particle, emission, isotopes, and gamma radiation.

Prerequisite: O-Level or WASC.

**PHY123: Waves, Vibrations and Optics:****2 Credits**

Periodic motion of an oscillator: Velocity and acceleration of a sinusoidal oscillator, equation of motion of a simple harmonic oscillator: damped oscillations; forced oscillations; resonance; propagation of longitudinal and transverse vibrations.

Wave and light: Mirrors, formation of images, thin lenses in contact, microscope, telescope; chromatic and spherical aberrations and their reduction, Dispersion by prisms; relations between colour and wavelength; spectra.

**GST 121: Use of Library, Study Skills and ICT****(2 Credits)**

Brief history of libraries, library and education, Universities libraries and other types of libraries, study skills (reference services). Types of library materials, using library resources including e-learning, e-materials; etc. Understanding library catalogues (card, OPAC etc) and classification, Copy and its implications, Database resources, Bibliographic citations and referencing. Development of modern ICT, Hardware technology, Software technology, Input

devices, storage devices, Output devices, communication and internet services, word processing skills (typing, etc).

**GST 122      Communication in English II      (2 Credits)**

Logical presentation of papers, Phonetics, Instruction on lexis, art of public speaking and oral communication. Figures of speech, Précis, Report writing.

**GST 123      Communication in French      (2 Credits)**

Introduction to French, Alphabets and numeric for effective communication (written and oral), Conjugation and simple sentence construction based on communication approach, sentence construction, comprehension and reading of simple texts.

**200 Levels**

Semester	Course Code	Course Title	L	T	P	Course Credit	Pre-Requisite
<b>FIRST</b>	MEE 221	Engineering Drawing I	1	-	2	2	
	MEE 231	Strength of Materials	1	1	-	2	
	MEE 251	Thermodynamics I	1	1	-	2	
	MEE 271	Manufacturing Technology/Workshop Practice	1	-	1	2	
	ELA 201	Laboratory	-	-	9	3	
	EMA 201	Engineering Mathematics I	2	1	-	3	
	ECP 201	Computers and Computing	2	1	-	2	
	EEE 211	Electrical Engineering I	2	1	-	2	
	ENS 211	Engineer in Society	1	1	-	1	
	GST 211	History and Philosophy of Science	1	1	-	2	
<b>Total Credits</b>						23	

Semester	Course Code	Course Title	L	T	P	Course Credit	Pre-Requisite
<b>SECOND</b>	MEE 212	Applied Mechanics	2	1	-	3	
	MEE 242	Material Science	1	1	-	2	
	MEE 262	Fluid Mechanics I	1	1	-	2	
	MEE 222	Engineering Drawing II	2	1	-	3	
	ELA 202	Laboratory	-	-	9	3	
	EMA 202	Engineering Mathematics II	2	1	-	3	
	CPE 204	IT in Engineering	1	-	3	2	
	EEE 212	Electrical Engineering II	1	1	-	2	
	GST 221	Peace Studies and Conflict Resolution	1	1	-	2	
	EPS223	Introduction to Entrepreneurial Skills	1	1	-	2	
IUITS 202	Igbinedion University				1		

		Industrial Training Scheme.					
<b>Total Credits</b>						23	

**200 LEVEL:  
FIRST SEMESTER**

**MEE221: Engineering Drawing I (2 Credits)**

- i. Use of draughting instruments, lettering, dimensioning, layout.
- ii. Engineering graphics - Geometrical figures, comics, etc. Graphical calculus and Applications. Development, intersection of curves and solids.
- iii. Projections – Lines, planes and simple solids. Orthographic and isometric projections, simple examples. Threaded fastness.
- iv. Pictorial/Freehand sketching.
- v. Conventional practices.
- vi. Introduction to computer aided drafting: Electronic draughting packages: principle and use in Engineering design. Simulation packages: principle and use in engineering.

**MEE231: Strength of Materials (2 Credits)**

- i. Force equilibrium – free body diagrams.
- ii. Concept of stress, strain, tensile test. Young's modulus and other strength factors.
- iii. Axially loaded bars, composite bars, temperature stresses and simple indeterminate problems. Hoop stresses in cylinders and rings.
- iv. Bending moment, shear force and axial force diagrams for simple cases, simple torsion and applications.

**MEE 251: THERMODYNAMICS I (2 credits)**

- i. Basic concepts, definitions and laws.
- ii. The ideal gas, Heat and Work.
- iii. The first law of thermodynamics, applications to open and closed systems.
- iv. The steady state flow equation (Bernoulli's Equation) and applications.
- v. Second law of thermodynamics and Heat cycles.

**MEE271 Manufacturing Technology/ Workshop practice I (2 Credits)**

Elementary introduction to types and organization of engineering workshops, covering jobbing, batch, mass production.

- i. Engineering materials: their uses and properties.
- ii. Safety in Workshops and general principles of working. Bench work and fittings: hand tools, instruments.
- iii. Carpentry: Hand-tools and working principles. Joints and fastenings: Bolt, rivet, welding, brazing, soldering. Measurement and marking: for uniformity, circularity, concentricity, etc.
- iv. Blacksmith: Hand tools and working principles. Joints and fastenings: Bolt, rivet, welding, brazing, soldering. Measurement and marking: for uniformity, circularity, concentricity, etc.



**GST 211: History and Philosophy of Science (2 Credits)**

Man- his origin and nature, Man and his cosmic environment, scientific methodology, science and technology in the society and service of man. Renewable and non-renewable resources- man and his energy resources. Environmental effects of chemicals, plastics, textiles wastes and other materials, Chemical and radiochemical hazards. Introduction to the various areas of science and technology. Elements of environmental studies.

**SECOND SEMESTER**

**MEE212: Applied Mechanics (3 Credits)**

Statics: Laws of statics, system of forces and their properties. Simple problems, friction.

- i. Particle dynamics – Kinematics of plane motion. Newton's laws – kinetics of particles, momentum and energy methods.
- ii. Kinematics of rigid bodies – velocity and acceleration diagrams for simple problems.
- iii. Kinetics of rigid bodies – Two dimensional motion of rigid bodies, energy and momentum, Mass moment of inertia. Simple problems.
- iv. Simple harmonic motions.

**MEE242: Materials Science (2 Credits)**

Atomic and molecular structure, crystals and amorphous structure. Metallic state. Defects in crystals. Conductors, semi-conductors and insulators.

- i. Alloy Theory – Application to industrial alloys. Steel in particular.
- ii. Engineering properties – Their control, hot and cold working, heat treatment, etc. Creep, fatigue and fracture. Corrosion and corrosion control.
- iii. Non-metallic materials – glass, rubber, concrete, plastics, wood and ceramics.
- iv. Elastic and plastic deformations: Defects in metals.

**MEE 262: FLUID MECHANICS I (2 credits)**

- i. Elements of fluid statics; density, pressure, surface tension, viscosity, compressibility etc.
- ii. Hydrostatic forces on submerged surfaces due to incompressible fluid.
- iii. Introduction to fluid dynamics – conservation laws.
- iv. Introduction to viscous flow.

**ELA 202 Laboratory (3 Credits)**

**EMA202: Engineering Mathematics II (3 Credits)**

- a. Further Integrations: Reduction formulae
- b. Differential Equations –
  - i. General Review: Exact differential equations. Simple applications in geometry, mechanics, chemical reactions and heat flow.
  - ii. Second Order linear differential equations with constant coefficients. Further D-operator method. Solution of second order differential equations by method of change of variables. Introduction to partial differential equations (separation of variables).
- c. Mechanical and Electrical Oscillations: Oscillations of damped and un-damped mechanical systems. Electric circuit theory. Resonance.

- d. Numerical Methods: Introduction to numerical computation. Solution of non-linear equations. Solution of simultaneous linear equations-both direct and iterative schemes. Finite difference operators. Introduction to linear programming (Graphical solution).

**ECP202: IT in Engineering**

**(2 Credits)**

Historical developments of Computers, External Components of computers, Characteristics of a computer, types and classification of hardware and software. Word processing : principle of operation, application, demonstration and practical hand- on exercises in word processing using a popular word processing package. Spread sheet : principle of operation, application, demonstration and practical hand- on exercises in the use of spread sheet to solve problems. Presentation software packages: principle of operation, application, demonstration and practical hand- on exercises in the use of popular report presentation package (such as power point). Mini project to test proficiency in the use of software packages. Database management Package: : principle of operation, application, demonstration and practical hand-on exercises in the use of DBMS package in solving problems. Matlab : principle of operation, application, demonstration and specific functions/toolboxes to solve specific engineering problems.

**EEE212: Electrical Engineering II**

**(2 Credits)**

Physics of Devices: Atomic structure, material classification, electron emission, gas discharge devices, semiconductor materials, p-n junction diode and transistor. Transistor amplifier, D.C. and A.C. analysis of transistor amplifier circuits. Transistor switching characteristics. Rectification and D.C. power supplies, Transformers, Introduction to DC and AC machines.

**CHE 212 Physical Chemistry**

**(2 Credits)**

Thermo-chemistry, electro-chemistry, kinetic theory, gas laws, transition metals, introductory organic and inorganic chemistry.

**GST 222: Peace Studies and Conflict Resolution**

**(2 Credits)**

Basic concepts in peace studies and conflict resolution. Peace as vehicle of unity and development. Conflict issues, Types of conflicts e.g Ethnic/religious/political/economic conflicts. Root causes of conflicts and violence in Africa. Indigene/settler phenomenon, peace-building. Management of conflict and security. Elements of peace studies and conflict resolution. Developing a culture of peace, peace mediation and peace-keeping. Alternative Dispute Resolution(ADR), dialogue/arbitration in conflict resolution. Role of international organisations in conflict resolution, e.g. ECOWAS, African union, United Nations etc.

**IUITS 202 Igbinedion University Industrial Training Scheme (1 Credit)**

**300 Levels**

Semester	Course Code	Course Title	L	T	P	Cours e Credit	Pre- Requisite
	MEE 311	Mechanics of Machine I	1	1	-	2	MEE 211,MEE 212
	MEE 321	Machine Drawing	1	-	1	2	MEE221
	MEE 341	Engineering Metall'gy I	1	1	-	2	

First	MEE 351	Thermodynamics II	1	1	-	2	MEE 251
	<b>CVE 311</b>	<b>Strength of Materials II</b>	<b>1</b>	<b>1</b>	<b>-</b>	<b>2</b>	
	ELA 301	Laboratory Practicals	-	-	9	<b>3</b>	
	EMA 301	Engineering Mathematics III	2	1	-	3	
	EEE 321	Electrical Machines I	2	1	-	<b>2</b>	
	ENS 311	Engineer in Society	1	-	-	1	
	EPS 311	Introduction to Entrepreneurship Studies.	2	-	-	2	
<b>Total Credits</b>						<b>21</b>	

Semester	Course Code	Course Title	L	T	P	Cours e Credit	Pre-Requisite
Second	MEE 302	Control Engineering	2	1	-	3	
	MEE 312	Mechanics of Machines II	1	1	-	2	MEE211,MEE212
	<b>MEE 332</b>	Workshop Practice	1	-	1	2	
	MEE 342	Manufacturing Technology II	1	1	-	2	MEE 271
	MEE 362	Fluid Mechanics II	1	1	-	2	MEE262
	MEE 382	Computers and computing	1	-	1	2	-
	ELA 302	Laboratory Practicals	-	-	9	<b>3</b>	
	EEE 322	Electrical Machines II	2	1	-	<b>2</b>	
	EMA 302	Engineering mathematics IV	2	1	-	3	
	IUITS 302	Igbinedion University Industrial Training Scheme.				1	
<b>Total Credits</b>						<b>22</b>	

### 300 LEVEL:

#### FIRST SEMESTER

#### **MEE 311: MECHANICS OF MACHINES I (2 credits)**

Basic principles of kinematics and motion. Vectoral Kinematics with emphasis on moving co-ordinate systems. Mechanisms of linkages, displacement, motion and instantaneous centres. Link mechanisms; Grashof's law. Grubler's criterion. Relative velocities and accelerations in mechanisms.

Introduction to vibrations: Vibration of free undamped and damped single degree of freedom systems, including torsional vibration. Energy methods; Raleigh's principle. Transient and steady-state responses. Electrical analogy. Forced vibration and harmonic excitation of single degree of freedom systems. Vibration isolation.

#### **MEE 321: MACHINE DRAWING (2 credits)**



Section and conventions. Auxiliary views. Pictorial drawings. Conventions. Practices and standards. Drawing of machine elements. Working drawings. Pipe drawing. Fasteners, welding drawings, Building drawing. An introduction to computer-aided drafting.

**MEE 341: ENGINEERING METALLURGY (2 credits)**

Review of Phase equilibria. Reaction rate theory. Mechanisms for Diffusion. Diffusion-controlled processes. Kinetics of phase transformations. T.T.T Diagrams, Relation between Mechanical properties and micro-structural control.

Metallurgy of Iron and Steel: Production techniques and common types. Plain carbon and Alloy steels. The iron-carbon phase diagram.

**MEE 351: THERMODYNAMICS II (2 credits)**

Thermodynamics of pure substances: Properties of ideal and Real gases, Kinetic theory of gases. Mixtures: Mixtures of perfect gases. Mixtures of gas and saturated vapour, psychrometry applications. Power transfer systems: Introduction to vapour power cycles. Rankine cycle with re-heat.

Second Law topics: Gibb's and Helmholtz free energies. Irreversibility and availability. Principle of minimum work. Thermodynamic potentials.

**ELA 301: LABORATORY PRACTICALS (3 credits)**

Familiarization with engineering hardware. Lectures on experimental reporting techniques. Basic techniques and instruments for engineering measurements; Experiments are conducted in Electrical, Civil, Mechanical and Manufacturing technology. The experiments are designed to supplement and support the lecture courses.

**CVE 311: STRENGTH OF MATERIALS II (2 credits)**

Columns: Short columns (struts); Intermediate columns and slender columns. Fully restrained, partially restrained and unrestrained columns.

- 1.1. Analysis of Columns: By Euler's Theoretical Formulae and Empirical Methods such as: Gordon Rankine's formula; Johnson's Parabolic and Straight line formula.
- 1.2. Loading And Bending of Columns:  
Symmetrical and eccentric loading of columns and bending about one axis (uni-axial bending) and bending about two axes (tri-axial bending).
2. Analysis of Perfect Frames or Statically Determinate Frames:  
Calculation of external support reactions, internal forces (tension and compression) and deformation in bar members, using both analytical methods of joints ( $\sum F_v = 0$ ;  $F_h = 0$ ) and method of sections ( $\sum M = 0$ ) as well as graphical methods.
3. Analysis of Statically Indeterminate Structures using Moment Area Methods, Claypeyron's theorem of three moments, slope deflection equations, etc. consideration of boundary conditions, determination of external support reactions, shear, moments and drawing S.F.D. and B.M.D.
4. Advanced Treatment of Elastic Bending Theory of Beams:  
Shear center; unsymmetrical bending; curved beams.
5. Biaxial and Tri-axial state of stress: transformation of stresses; Mohr's circle; failure theories.
6. Creep, Fatigue, Fracture and Stress concentration. Springs.

**EMA 301: ENGINEERING MATHEMATICS III (3 credits)**

- i. Linear Algebra: n-dimensional vectors, addition and scalar multiplication. Linear dependence and independence of set vectors. Matrices, operations of addition, scalar multiplication and product; determinants and their properties; sub-matrices and rank; inverse of a matrix. Theory of a system of linear equations, linear transformation and matrices, Eigen values and Eigen vectors of a matrix; eigen values of Hermitian, skew Hermitian and unitary matrices; bilinear quadratic forms.
- ii. Analytical geometry: Plane polar coordinates, coordinate transformation. Solid geometry and spheres and quadric surface. Spherical polar and cylindrical polar coordinates.
- iii. Functions of several variables: Mean value theorem for function of several variables, maxima and minima, differentiation under the sign of integration. Jacobians.
- iv. Numerical Analysis: Numerical differentiation and quadratic formulae. Analytic and numerical solution of ordinary differential equations. Curve fitting and least squares. Further on linear programming (simplex method).

**EEE321: ELECTROMECHANICAL DEVICES AND MACHINES I**  
(2 credits)

Review of electromechanical energy conversion, rotating magnetic field; performance and methods of speed control of D.C. Machines.

Transformers: construction, operational phasor diagrams and equivalent circuits, determination of parameters from tests, Auto transformers, three-phase transformer connections, groupings, tertiary windings. Instrument transformers: Current transformers and potential transformers. Power transformers: Parallel operation, switching, grouping, cooling, protection.

**ENS 311: ENGINEER IN SOCIETY (1 CREDIT)**

**EPS 311: Introduction to Entrepreneurship Studies (2 Credits)**

Some of the ventures to be focused upon include the following:

1. Soap/ Detergent, Tooth brushes and tooth paste making
2. Photography
3. Brick, nails, screws making
4. Dyeing/ Textile blocks, paste making
5. Rope making
6. Plumbing
7. Vulcanizing
8. Brewing
9. Glassware production/ Ceramic, production
10. paper production
11. Water treatment/ Conditioning/ Packaging
12. Food processing/ Packaging/ Preservation
13. Metal working/ Fabrication- Steel aluminum door and windows
14. Training Industry
15. Vegetable oil/ Salt extractions
16. Fisheries/ Aquaculture
17. Refrigeration/ Air conditioning
18. Plastic making

19. Crop farming
20. Domestic Electrical wiring
21. Radio/ TV repairs
22. Carving
23. Weaving
24. Brick laying / making
25. Bakery
26. Tailoring
27. Iron Welding
28. Building drawing
29. Carpentry.
30. Leather tanning
31. Interior decoration
32. Printing
33. Animal husbandry ( Poultry, pigry, goat, etc)
34. Metal craft: Blacksmith, Tnsmith, etc.
35. Sanitary wares
36. Vehicle maintenance
37. Book keeping.
38. Computer installation and repairs

## **SECOND SEMESTER**

### **MEE 312: MECHANICS OF MACHINES II (2 credits)**

Kinematics of simple mechanisms: Force analysis of mechanisms: Friction effect. Rolling and sliding contact. Cams. Gear and gearing. Gear trains, Slide-crank chain and its harmonics. Cams by direct analysis and by equivalent mechanisms. Analysis of simple Engineering Mechanisms: Brakes, Clutches, Drives. Simple treatment of sliding and rolling bearings (both journal and thrust). Interacting mechanisms, Time charts. Hooke's joint. Elementary balancing: Static and dynamic balancing. Balancing of masses rotating in the same plane. Balancing of masses rotating in different planes. Graphical and vector analysis. Dynamic forces at bearings. Whirling of rotating shafts. Balancing of engines: in-line, Vee and Radia engines.

### **MEE 332: WORKSHOP PRACTICE (2 Credits)**

Workshop setting: Types of workshop equipment, machines and materials: Use of instruments and tools. Machine operation practice; safety procedures in workshops.

### **MEE 342: MANUFACTURING TECHNOLOGY II (2 credits)**

Working principles, size and specification, classification, principal parts, working holding and driving mechanisms of shaping, slotting, planting machines, turret and capstan lathes. Applications of automatic and semi-automatic lathes. Milling operations and machines: types, cutters, attachments, direct and simple indexing. Grinding machines and wheel characteristics, selection specification, etc. Various methods of grinding processes, speed and feed applied, Welding of ferrous./non-ferrous metals and alloys, cast iron. Uses of brazing and soldering. Powder metallurgy. Casting methods: Basic principles of pattern, mould, core making: their materials, allowances, etc, metal, melting and casting. Investment and Die casting techniques. Forging and extrusion.

### **MEE 362: FLUID MECHANICS II (2 credits)**

Viscous flow theory: Mechanism of viscosity. Equations of motion for viscous Newtonian fluids. Navier-Stokes equation for laminar flows; simplified forms and some exact solution. Laminar velocity distribution. Elementary channel flow. Introduction to turbulence. Some applications of viscous flow theory; the Viscometer, Hydrodynamic lubrication.

Ideal flow theory: Introduction to the concepts of circulation, irrotationality, velocity potential and stream functions. Inviscid equations in general forms; Boundary conditions for inviscid flows. Poisson and Laplace equations and their elementary solutions; Elementary flows and principle of superposition. Lift and drag on cylinders; D'Alembert's paradox. Kutta-Jukowski condition. Introduction to Aerofoil theory.

Power systems: Mechanical power systems; their applications and operations. Drive requirements for mechanical equipments: pumps, fans, machine tool cranes. Thermodynamics. Thermal and hydraulic power system. Operation principles of Air-conditioning and Refrigeration.

**MEE 382: COMPUTER APPLICATIONS IN ENGINEERING (2 credits)**

A computer-driven course to illustrate computer applications in mechanical engineering and mathematics. Computer Aided Design (CAD) and Computer Aided Manufacture (CAM) basics.

**MEE 302: CONTROL ENGINEERING (3 Credits)**

Control Engineering concepts; Transfer functions; Differential equations of control systems; Transducers; Automatic control methods.

*Types of control systems. The Laplace and Inverse Laplace transforms and solution of differential equations. Transfer functions, Block diagrams and Signal flow charts. Proportional, Derivative and Integral control actions. Error analysis, Transient response, Stability and the Root locus technique. Frequency response techniques of Nyquist, Bode and Nichols. Control systems design.*

**ELA 302: MECHANICAL ENGINEERING LABORATORY (3 credits)**

Measurement techniques relevant to Mechanical engineering. Experiments in Mechanics, Vibration, Strength of materials, Metallography and Materials properties. Written engineering reports covering analysis, results and conclusions of experimental investigations. The experiments are designed both to show the behaviour of some engineering material and equipment, and also to encourage critical appreciation of the techniques of measurement which are available.

**EEE 322: ELECTROMECHANICAL DEVICES AND MACHINES II (2 credits)**

Induction motors, universal motors, reluctance motors, hysteresis motors. Magnetically coupled circuits, reluctance torque in rotating machines. Armature windings of electrical machines: Conductors, terms coils, coil-span, single and double layer windings. D.C. armature winding (lap and wave) connections. Principles of action of commutator and brush location, types of A.C. windings, e.m.f. of windings, distribution factor and coil-span factor, different harmonics. Basic rotating machines principles: elementary concepts, e.m.f. of distributed windings, rotating magnetic fields torque and voltage for different types of flux density and fluxes.

**EMA 302: ENGINEERING MATHEMATICS IV (3 credits)**

- i. Fourier Series: Periodic functions. Euler formula for coefficients in Fourier sine/cosine series of a function. Even and odd functions and their Fourier series.

- Half range expansion. Theoretical basic of Fourier series. Application to the solution of partial differential equations.
- ii. Gamma, Beta and probability function (emphasis rather on the applications).
  - iii. Differential Equation: Equations of the form  $y'' = f(x,y')$ . Linear second order equations reducible to linear equation with constant coefficients. Series solution of differential equation. Legendre's differential equation and Legendre polynomials. Bessel's differential equation and Bessel functions of first kind; their properties and introduction to applications.
  - iv. Vector Field Theory. Scalar and vector fields; directional derivative; gradient of a scalar field; divergence and curl of a vector field; del operator. Line, surface and volume integrals. Divergence theorem of Gases and Stoke's theorem. Green's theorem. Line integrals independent of path and irrational vector fields.

**IUITS 302: Igbinedion University Industrial Training Scheme (1 Credit)**

**400 Levels**

Semester	Course Code	Course Title	L	T	P	Course Credit	Pre-Requisite
First	MEE 411	Mechanics of Machine III	2	1	-	2	MEE311,MEE312
	MEE 421	Mechanical Engineering Design I	2	1	-	3	
	MEE 431	Strength of Materials III	1	1	-	2	
	MEE 441	Engineering Statistics	1	1	-	2	
	MEE 451	Thermodynamics III	1	1	-	2	MEE351
	MEE 461	Fluid Mechanics III	1	1	-	2	MEE362
	MEE 481	Automobile Workshop Practice	1	1	-	2	
	GRE 441	Engineering Communications	1	1	-	2	
	ENS 411	Technology Policy and Dev.	1	1	-	2	
	ELA 401	Laboratory Practicals				3	
	EPS 411	Introduction to Entrepreneurship Studies	1	1	-	2	
<b>Total Credits</b>						24	
Second	IUITS 402	Igbinedion University Industrial Training Scheme				6	

## **400 LEVEL**

### **MEE 411: MECHANICS OF MACHINES III (2 credits)**

Electro-mechanical analogies. Electro-mechanical systems and transducers. Operation of two degree of freedom systems. Principal modes orthogonality. Multi-degree of freedom vibrating systems. Lumped parameter systems.

Lubrication: Theory of lubrication. Reynolds equation and its application to a converging-diverging wedge. Pad bearings and Journal bearings. Hydrodynamic bearings. Rolling bearing analysis. Boundary lubrication. Hydrostatic bearings. Bearing materials.

### **MEE 421: ENGINEERING DESIGN I (3 credits)**

Philosophy of design. Design flow charts. Design components, specifications and justification. Detail design (qualitative and quantitative). Materials selection. Stress and deflection analysis. Design against failure. Statistical study of failures and factor of safety. Concepts of adequate, imitative and optimum design. Use of handbooks and standards. Mathematical model o design situations. Component design: Bearing design, Shaft design, Fastenings, Couplings.

### **MEE 431: STRENGTH OF MATERIALS III (2 credits)**

Bending of curved beams; Crane hook problem. Principal stresses in bending. Beams with axial loads. Beam columns. Combined bending and torsion. Elastoplastic bending.

Deflection of Intermediate beams. Continuous beams. Energy methods.

Advanced problems in stress analysis: Thick cylinders and spheres under uniform internal and external stresses. Compound cylinders. Stress concentrations. Contact stresses. Strength of riveted, bolted or bonded joints. Torsion of thin-walled tubes. Three dimensional stress and strain analysis. Generalized stress-strain relations. Experimental stress analysis: Principles and applications of Strain gauges, Photo-elasticity, Stress coats.

### **MEE 441: ENGINEERING STATISTICS (2 Credits)**

**Probability-** Elements of probability, density and distribution functions, moments, standard distributions, e.t.c.

**Statistics-** Regression and correlation, large sampling theory. Test hypothesis and quality control. Introduction to statistical analysis software packages (MS Excel, Statistica, SPSS)

**Design of Experiments-** Statistical methods: measures of central tendency, measures of dispersion. Experimental Design: Significance (levels of significance, tests of significance) Factorial Concept, Analysis of variance (one way designs, two way designs, e.t.c), Means Comparison (Non-parametric, pairwise (LSD, MRT's).

**Applications in Modeling-** Modeling Techniques, modeling procedure, Applied linear regression basics.

### **MEE 451: THERMODYNAMICS III (2 credits)**

Thermodynamic relations: Maxwell relations. Clapeyron equations. Relations involving u, h and s. Joule-Thomas coefficient. Property diagrams, T-S, h-S, p-h, etc. Specific heat relations. Behaviour of real gases. Gas power plants: Joule cycle; Work ratio and efficiency. Improvement of performance; Inter-cooling, Re-heating, Ericsson cycle. International combustion engines: Operation of internal combustion engines. Engine cycles, performance and fuel supply. Heat balance. Combustion phenomena. Reciprocating expanders and compressors: Work and heat transfer; Analysis of compressors. The reciprocating expander. Rotary positive displacement compressors. Steam engine. Refrigeration and feed pump: Reversed Carnot cycle; Performance criteria. Classification of refrigerators.

**MEE 461: FLUID MECHANICS III (2 credits)**

Concepts of compressibility, Isentropic flow relationships. Static, stagnation and reservoir conditions. Isentropic flow through nozzles and diffusers. Sonic, subsonic and supersonic flows; Practical examples. Shock waves; static and moving waves. Relationship between flow properties behind and in front of stationary and moving shock waves. Flows through constant area ducts without friction and heat transfer, with friction only, and with both friction and heat transfer.

Boundary layer thickness: Simplified equations for laminar flows. Turbulent boundary layers. Transition to turbulence and flow separation. Introduction to turbulence; Prandtl mixing length theory. Laminar and turbulent velocity distributions.

Turbulent pipe flows and empirical relations. Moody diagrams, pipe network, surge tanks. Head losses in pipe flows. Pressure drop and velocity relations in gas ducts. Losses in joints and bends of gas ducts.

Theory of Turbo machines. Head-momentum, torque-momentum relations. Dimensional analysis and similarity considerations. Cavitations.

**MEE 471: COMBUSTION AND HEAT TRANSFER (3 credits)**

Fuels and oxidants. Chemical reactions and equation; mass conservation, mass balance, ideal and real reaction. Standardized energy and enthalpy, maximum and adiabatic flame temperature. Dissociation and chemical equilibrium. Introduction to Heat Transfer. Modes of heat transfer, conduction heat transfer. Steady state one-Dimensional conduction equation for plane wall, circular cylindrical and spherical bodies, pipe lagging. Heat electricity analogies. Fluid – solid – fluid systems: Convection transfer, type of convection heat transfer – forced, free, dimensionless groups thermal boundary layer, its development.

**MEE 481: AUTOMOBILE WORKSHOP PRACTICE (2 Credits)**

**GRE 441: RESEARCH METHODS AND TECHNICAL REPORT WRITING (2 credits)**

Principles of communication. Parts of technical reports: Abstract, introduction, Main body. Conclusions and Recommendations, Tables, Figures, Graphs, Illustration, References, Appendices. Writing the first draft. Revising the first draft: Content and structure. Audiences Scientific and Technical Prose: Spelling and Scientific Terminology using numbers and symbols.

Data: Statistical analysis of data and display. Software support for various writing and graphic tasks. Use of Microsoft power point.

Preparation of curricula vitae, research grant proposals, short talks and poster, and feasibility report. Writing a thesis.

**ENS411: TECHNOLOGY, POLICY AND DEVELOPMENT (2 CREDITS)**

Definition and usage of technology; Basic methods of policy analysis and planning; Practical principles for beginning policy analysts; Definition of sustainable development; Distinction between science, engineering and technology; Definition of invention and innovation; Models of technology innovations; Types of technology innovations; Methods for measuring

innovation performance; Examination of national technology policy and development strategy.

**ELA 401: MECHANICAL ENGINEERING LABORATORY (2 credits)**

Experiments in Compression-ignition engines; steam and gas turbines, refrigeration circuits. Examination of liquid fuels and lubrication oils. Measurement of flame speed; Flexibility of flames in moving streams; ignition of liquid fuels, scavenging of two-stroke engines. Experiments in heat transfer and combustion, Turbulence in fluids, Applied mechanics and Heat treatment of steels.

**EPS 411: Introduction to Entrepreneurship studies (2 Credits)**

**SECOND SEMESTER**

**IUITS 402: Igbinedion University Industrial Training Scheme (6 Credit)**

**500 Levels**

Semester	Course Code	Course Title	L	T	P	Course Credit	Pre-Requisite
First	MEE 500	Project	-	-	9	3	
	GRE 501	Law and Management	2	1	-	3	
	MEE 511	Engineering Systems Dynamics	2	1	-	3	
	MEE 521	Mechanical Engineering Design II	2	1	-	4	
	MEE 551	Thermal Power Engineering I	2	1	-	2	
	MEE 571	Combustion and Heat Transfer	1	1	-	2	
	MEE 541	Engineering Metallurgy II	2	1	-	3	
	ELA 501	Laboratory Practicals				3	
	<b>Total Credits</b>						23

Semester	Course Code	Course Title	L	T	P	Course Credit	Pre-Requisite
	MEE 500	Project	-	-	9	3	
	GRE 502	Engineering Management	2	1	-	3	



Second	MEE 512	Engr. Mat'l selection, Economics and Failure analysis	2	1	-	3	
	MEE 552	Thermal Power Engineering II	2	1	-	2	
	MEE 562	Fluid Power Systems and Control	2	1	-	3	
	MEE 572	Refrigeration and Air-conditioning	1	1	-	2	
	MEE582	Advanced CAD/CAM	2	1	-	3	MEE 382
	MEE 592	Case Studies in Mechanical Engineering	1	1	-	3	
<b>Total Credits</b>						22	

### **500 LEVEL:**

#### **FIRST SEMESTER**

#### **MEE 500: PROJECT (3 credits)**

Projects are drawn from a wide variety of different fields to give experience in many aspects of design, manufacture and execution of experiments. They give the students experience in methods of solving problems. Students work in closely-supervised groups or singly on problems which require solutions.

#### **GRE 501: LAW and MANAGEMENT (3 credits)**

The Management Environment – Formation of a company, sources of finance. Money and ..... Insurance, National policies, GNP growth rate and prediction. Balance of payments, legal liabilities under company law, legal and contractual obligations to employees and the public, contractual obligations.

Organization Management: Principles of organization, span of control. Elements of organization. Types. Principles of management. School of thought. Management objectives. Financial Management – Accounting methods. Financial statement. Element of costing. Cost, planning and control. Budget and budgetary control. Cost reduction programmes. Depreciation accounting, valuation of assets.

Personnel Management – Selection, recruitment and training. Job evaluation. Merit rating. Incentive schemes. Trade unions and collective bargaining.

Industrial psychology – Individual and Group behaviour. The learning process. Motivation and morale. Influence of the Industrial Environment.

#### **MEE 511: ENGINEERING SYSTEMS DYNAMICS (3 credits)**

Physical engineering systems, models, modeling distributed and lumped parameter systems. Assumptions in modeling. Governing equations for mechanical, electrical, electro-mechanical and thermal, systems. Fluid transducer components and systems.

System analogues. System response (natural and forced modes) stability. Introduction to non-linear, time-varying systems.

Concepts of noise and vibration control. Loudness, intensity and weighting network. And energy and power; noise-rating curves. Noise measurement and propagation control; Visco elastic damping. Acoustic properties of common materials.

#### **MEE 521: MECHANICAL ENGINEERING DESIGN II (3 credits)**

Introduction to machine design: Dynamic and varying loads. Effect of manufacturing methods on design. Optimum design. Prototype design and testing. Safety issues. Ergonomics. Design of machine members: Bolts, brakes, clutches and coupling gears, springs, rope, belt and chain drive hoists. Design of weldments. Friction and bearings. Pressure cylinders. Motor selection. Vibration and design.

**MEE 551: THERMAL POWER ENGINEERING I (2 credits)**

Thermodynamics, Carnot cycle, Rankine cycle, Regenerative cycle, Binary vapour cycles, Special turbines, the working fluid.

Direct energy conversion, thermionic, Thermoelectric and Magneto-hydrodynamic converters. Fuel cells, other energy sources. Energy management and storage.

**MEE 571: HEAT TRANSFER (2 credits)**

Natural and forced convection; Forced convection in steady two-dimensional laminar boundary. Forced convection in pipes and ducts. Turbulence. Free convection. Two-phase convection.

Thermal radiation: Stefan-Boltzmann law. Black and grey bodies. Net radiation between a solid body and its surroundings. Solar energy. Combined heat transfer. Heat transfer with change of phase.

Extended sources. Heat exchangers; Effectiveness, Analytical relation to capacity-rate ratio and ... number of transfer units in parallel and counter-flow. Selection criteria. Converter applications.

**MEE 541: ENGINEERING METALLURGY II (3 Credits)**

Heat treatment of steels: Annealing, Hardening and Tempering processes. Surface hardening of steels. High strength steel alloys

Non-ferrous metals and alloys. Copper, Aluminum and Titanium alloys. Alloys for special application; High temperature alloys. Bearing alloys. Light weight structural materials. Nuclear materials.

Environmental Stability of Materials: Oxidation and Corrosion mechanisms. Corrosion control principles.

**ELA 501: LABORATORY PRACTICALS (3 Credits)**

**SECOND SEMESTER**

**MEE 500: PROJECT (3 credits)**

Projects are drawn from a wide variety of different fields to give experience in many aspects of design, manufacture and execution of experiments. They give the students experience in methods of solving problems. Students work in closely-supervised groups or singly on problems which require solutions.

**GRE 502: ENGINEERING MANAGEMENT II (3 credits)**

**Resource Management:**

**Materials management.** Purchasing methods. Contracts. Stores and Inventory control. Resource utilization. Time value of money. Interest formulae. Rate of return. Methods of economic evaluation. Selection between alternatives.

Planning Decision Making, Forecasting, planning, scheduling. Production control. Gantt Chart and PERT.

Optimization: Linear programming as an aid to decision-making. Elementary treatment of decision-making policies under risks and uncertainties.

Transport materials Handling Selection of transport media for finished goods, raw materials and equipment. Facility layout and location. Work study and production policies.

Basic principles of work study. Principles of motion economy. Ergonomics in the design of workplace and processes. An introduction to computer softwares used in management.

**MEE 512: MATERIALS SELECTION & FAILURE ANALYSIS (2 credits)**

Review of industrial metals & alloys regarding the factors that govern selection for particular service conditions. Cost, availability, ease of fabrication, comparison of major alloy groups, specification and their use, mechanical testing and prediction of service behaviour. Component Failure Analysis: Review of common causes of industrial failure and methods of investigation. Non-destructive testing techniques. Failure distributions. Maintenance and Reliability analysis. Types and principles of maintenance. Maintainability. Concepts of reliability and availability. Reliability analysis. Mean life.

**MEE 552: THERMAL POWER ENGINEERING II (2 credits)**

Turbo-machine. Axial flow turbines and compressors. Radial flow turbines and compressors. Performance parameters and curves for steam and gas turbines, compressors.

Jet propulsion engines: Features and principles, Energy transfers, Design of jet nozzles.

**MEE 562: FLUID POWER SYSTEMS & CONTROL (Optional course)  
(3 credits)**

Fluids for power transmission. Basic fluid power components – pumps, relief valves, non-return valves, fixed and variable area restrictors, actuators, etc. Automatic control systems. Fluidics: Coats effect, Logic theory and Boolean Algebra. Fluid amplifiers. Block and signal flow diagrams.

Unsteady Oscillatory flow in manometers, reservoirs. Propagation of elastic waves. Water hammer. Surge tanks and Cavitation. Aerofoil and Crew theory. Hydraulic turbines and pumps.

**MEE 572: REFRIGERATION & AIR-CONDITIONING (2 credits)**

Refrigeration: properties and characteristics of refrigerants. Multi-pressure vapour compression refrigeration systems. Absorption refrigeration.

Air-condition: Fundamental properties of moist air. The psychometry of air-conditioning. Process estimation of cooling load. The analysis of various HVAC systems and equipment.

**MEE 582: ADVANCED CAD/CAM (3 Credits)**

Transformations and Projections. Free- Form Curve Design. Surface Patch Modelling. Solid Modelling. Reverse Engineering. Finite Element Methods. Optimization. Computer Aided Manufacturing (CAM).

**MEE 592: CASES STUDIES IN MECHANICAL ENGINEERING (2 credits)**

The course aims to show the basis for decision making in engineering on the grounds of technical merit, manufacturing aspects and economics. Case studies of successful designs will be analyzed. The course will show some of the interactions between the various courses in mechanical engineering and enables the students to partake in seminars. Topics to be discussed include: Computer applications in mechanical engineering; Value engineering and

selection of manufacturing processes for different classes of components; batches; application of basic principles to varying situations, etc.

**MEE 531: ELASTICITY AND PLASTICITY (3 credits) (Optional course)**

Two dimensional problems in linear elasticity the stress function and the bi-harmonic equation. Problems in Cartesian and cylindrical co-ordinates. Rotating disks and cylinders. Bending in two dimensions; thin circular plates, axi-symmetric bending of cylindrical components. Plastic theory of bending: Simple non-work, hardening solutions using the yield criterion and equilibrium elastic-plastic solutions. Residual stresses. Autofrettage in cylindrical components. Finite deformations and Work hardening. Levy-Mises equation. Plastic instability.

**MEE 561: BUILDING SERVICES ENGINEERING (Optional course)  
(3 credits)**

Control of inner environment (temperature, humidity, air quality and movement). Electrical and plumbing services. Fire protection and smoke control. Fire service system lifts and Escalator services. Piping and water storage systems. Fans and air distribution systems. Fan performance selection and installation. Design of ducts and Distribution systems. Lighting sources and their design and applications. Basic principles of sound control for HVAC system.

**MEE 542: MATERIALS TECHNOLOGY (Optional course) (3 credits)**

Polymer engineering: Molecular structure and basic types of polymers. Main classes of plastics and their uses. Polymer processing; extrusion, transfer, blow, injection and rotational moulding techniques. Mechanical properties creep and impact. Visco-elasticity; spring-dashpot models. Electrical and Optical properties. Thermal properties. Polymer degradation.

**Rubbers and Adhesives:**

Ceramic technology; Structure and properties of ceramic materials, fabrication and shaping of ceramics, Mechanical properties, Electrical properties.

**Composite Materials:**

Assessment of toughness in different types of materials. Effect of composition and processing variables. Control of yield stress and toughness in steels. Design of alloy steels, pressure vessel steels, pipeline steels.

**Failure mechanisms:**

Creep principles and parameters. Creep relaxation. Creep resistance. Theories of fatigue failure; Cumulative damage laws. Factors affecting fatigue resistance, Ductile and Brittle fracture; Cleavage, transition temperature, effects of stress concentration and strain rate. Introduction to fracture mechanics.

**STAFF LIST (ACADEMIC)**

S/N	NAME	QUALIFICATION	STATUS	
1	MR. ERAMEH, A.A.	M.Eng. M.Sc, B.Eng. (Mech)	L I/ Ag. Head	F/T
2	Mr. EDORE, F. O.	M.Sc, B.Eng (Mech)	L I	F/T
3	MR. ISERU, E.	M.Sc, B.Sc (Mech)	L II	F/T
4	MR. AREGBE, O.	M.Eng, B.Eng. (Mech)	L II	F/T
5	MR. EMIFONIYE, E. U.	M.Eng	L II	F/T

**TECHNICAL STAFF**

NAME	RANK	
1. Mr. L. Odejimi	Chief Tech	
2. Mr. Onwuzor IN	Chief Tech	
3. Mr. Imafidon P.G.A	Technologist	
4. Mr. Okotie Emeke A.	Technologist II	HND (MECH) 2011
5. Mr Nekwu Jonathan	Machinist	

**COLLEGE OF HEALTH SCIENCES**  
*Medical & Dental Council of Nigeria*

**PRINCIPAL OFFICERS OF THE COLLEGE OF HEALTH SCIENCES**

*Provost*

Prof. J. A. Unuigbo

MBBS, FRCOG, FWACS

*Ag. Dean, School of Basic Medical Sciences*

Dr. S.J. Josiah

B.Sc., M.Sc., Ph.D

*Dean, School of Clinical Medicine*

Prof L.C. Chiedozi

B.A. (Hons.), MD, FACS, FWACS

*College Secretary*

Mr O. O. Olaoke

B.Sc. Ed. (Hons); MBA

**THE LAW ESTABLISHING THE COLLEGE OF HEALTH SCIENCES**

The Education (National Minimum Standards and Establishment of Institutions) (amendment) Decree 1993, otherwise known as Decree No 9 of 1<sup>st</sup> January 1993 is the law under which Certificate No. 0001 of 24<sup>th</sup> April 1999 was issued by the Honourable Minister of Education on behalf of the Federal Military Government.

**Objectives of the College**

- a. To organize and offer courses of instructions leading to degree, diplomas, certificates and other university qualifications and distinctions in medical studies and such related studies as may be prescribed by the Senate.
- b. To organize and provide training and courses whether leading to university qualifications or not for such persons as may be prescribed by Senate
- c. To arrange and organize conferences, seminars, studies in the interest of public erudition.
- d. To tackle the problem of acute shortage of medical personnel in Nigeria, Africa and the world at large.
- e. To fill the gap created by brain drain of medical personnel in Nigeria.
- f. To encourage medical research in all fields of medical endeavor.
- g. To ensure maintenance of quality and standards in Medical Education both at graduate and postgraduate levels.
- h. To give qualitative medical education both at graduate and postgraduate levels in order to produce efficient and highly skilful doctors dedicated to the Primary Health Care delivery; and to the teaching of Medical Sciences.
- i. To produce doctors who will uphold the highest ethical standard of the profession.
- j. To perform any other function as shall be prescribed by the senate of the University.

**THE ADMINISTRATIVE STRUCTURE OF THE COLLEGE**

The College administrative structure consists of:

1. The office of the Provost
2. Offices of Deans of Schools

3. Academic Departments and
4. Administrative / service departments

#### **THE COLLEGE CONSIST OF**

- a. The School of Basic Medical Sciences
- b. The School of Clinical Medicine
- c. Such other Schools, institutes, research and teaching units as may from time to time be prescribed or established as part thereof.

#### **POWERS AND DUTIES OF THE COLLEGE.**

- a. The College shall be responsible to the Senate in respect of academic and other matters and to the Council for financial and other staff welfare matters.
- b. The College shall have right to discuss any matter relating to its stated functions as well as any other matter referred to it by appropriate organs of the University.
  - i) Co-ordinate the academic and administration of the constituent departments
  - ii) Approve staff for appointments and promotion within the College
  - iii) Make recommendations on staff and student discipline.
  - iv) Collate and shortlist students for admission purposes

#### **Principal Officers of the College**

1. The Provost
2. The Dean, School of Basic Medical Sciences
3. The Dean, School of Clinical Medicine
4. The College Secretary
5. The College Accountant

#### **TENURE AND POWERS OF THE PROVOST AND OTHER PRINCIPAL OFFICERS OF THE COLLEGE.**

1. (a) The Provost shall be the academic Head of the College. He / she shall be responsible to the Vice Chancellor for the effective coordination and performance of the work and administration of the various schools, institutes, and other units of the College.
  - (b) The Provost shall be appointed from among Professors of the College by the Vice Chancellor.
  - (c) The Provost shall preside at all meetings of the academic Board at which he is present and by his representative if he is absent.
  - (d) The Provost shall hold office for a period to be fixed by the Vice Chancellor on recommendation of the Senate.
2. (a) The academic head of a School within the College shall be the Dean who shall be appointed by the Vice Chancellor.
  - (b) The Dean shall be responsible to the Provost for the effective administration of the School including the coordination of the work

of the various departments and other units of the School.

3. There shall be a College Secretary, of the rank of a Deputy Registrar who shall be Chief administrative and financial Officer of College. He / she shall be responsible to the Provost for the day-to-day administrative work of the College.

### **Organizational and Administrative Bodies in the College**

To facilitate the smooth organization, development, and coordination of academic, research, administrative activities in the College, the following Committees and Boards shall be set up.

### **PRINCIPAL COMMITTEES AND BOARDS OF THE COLLEGE**

1. College Board
2. Board of studies of each School
3. Admissions and transfer Committee
4. Examination Committee
5. Students welfare Committee
6. Appraisal Committee
7. Time table Committee
8. Scholarship, research grants, prizes, experimentation ethics committee
9. Joint planning (College & IUTH) Committee.

### **1. COLLEGE BOARD**

- a. Provost who shall be Chairman
- b. Deans of the Schools within the College
- c. All Professors of the College
- d. All HODS within the College
- e. Representative of the Vice Chancellor
- f. One representative each from other Colleges / Faculties and Units
- g. One representative from the Library
- h. One representative from the Registry
- i. All full time academic staff of the College
- j. The college Secretary as Secretary

**Quorum:** One quarter of members (1/4)

### **Duties of the College Board**

- a) To advertise, receive, and process applications for appointments within the College, and subject to the authorities of the Senate in respect of academic posts, and of council in respect of administrative posts, professional and technical and such related posts respectively.
- b) To equip and maintain medical Libraries and Laboratories as may be necessary for training, research and other activities of the College.
- c) With approval of the Senate and Council to receive gifts etc but without obligation to accept the same for a particular purpose provided that the terms attaching thereto are consistent with goals of the College.



**NOTE: Meeting should be held one week before the Senate meets.**

**2. BOARD OF STUDIES OF THE SCHOOLS OF THE COLLEGE**

There shall be established for each School within the College a Board to be called the Board of studies of the School.

**Membership are:-**

- a. The Dean of the School (Chairman)
- b. Deans of other Schools within the College
- c. All Academic staff of the School
- d. 1 appointee of the Vice Chancellor on recommendation of the Senate
- e. One representative of the University Teaching Hospital.

**Terms of reference**

- a. To advise and report to the Senate through the Academic Board all matters relating to the organization of education, teaching, research, and associated matters of the school.
- b. To consider the progress and conduct of students within the School
- c. To recommend to the Senate through the Academic Board persons for appointment as examiners.
- d. To deal with all academic matters referred to it by the Senate or the Academic Board.

**3. ADMISSION AND TRANSFER COMMITTEE MEMBERSHIP**

- i) Provost or his nominees as Chairman
- ii) Committee of Deans in the College as members

**Duties**

- a) To consider all aspects of Admissions / Transfers for Admission / Transfer of students in the College of Health Sciences
- b) To advise the Academic Board on matters relating to the Admission / Transfer of the students to the College of Medical Sciences.

**4. EXAMINATION / TIME TABLE COMMITTEE MEMBERSHIP**

- a. Provost or his nominee as Chairman
- b. Dean / representative of the School of Clinical Medicine
- c. Dean / representative of the School of Basic Medical Sciences
- d. Dean / representative of the School of Pharmacy

**Duties**

- i) To draw up examination Timetable for all programmes run by the College.
- ii) Provide and circulate examination regulations
- iii) To liaise with examination Officers of the University to see that examinations are handled properly.
- iv) To see to the provision / allocation of venues for examinations.
- v) To draw up lecture time table for the various Schools of the College
- vi) To allocate space for students lecture

**5. STUDENTS WELFARE COMMITTEE MEMBERSHIP.**

- a. Provost nominee ----- Chairman
- b. Two representatives of the College Board
- c. A student from each of the Schools of the College
- d. Secretary—College Secretary

**Duties**

- i) To advise the Provost on all matter relating to the College’s Students affair
- ii) To make recommendation about the general well being of students in the College.

**6. APPOINTMENTS AND PROMOTIONS COMMITTEE.**

- a. The Provost ----- Chairman
- b. All Deans in the College
- c. One Professor to be elected by each Dean in the School
- d. Two senior staff( not below senior lecturer and not above associate professor) to be elected by the College Board
- e. Two nominees of the Vice Chancellor
- f. HODS (to be in attendance only when issues affecting their Departments are being considered- no voting right)
- g. College secretary – as secretary

**Duties**

1. To consider confirmation, appointments and promotions of all academic and non academic staff and report to A&PC.
2. To receive and determine applications for Study leave, Leave of absence, Sabbatical leave and make recommendations to the appropriate University Committee.

**7. SCHOLARSHIP, PRIZES, ETHICAL RESEARCH GRANTS, EXPERIMENTATION, ETHICS COMMITTEE.**

- a. Provost ----- Chairman
- b. Deans of all schools in the College
- c. 3 other professors elected by the Academic Board
- d. Dean School of Postgraduate studies.
- e. Secretary: College Secretary or his/ her representative.

**8. JOINT PLANNING COMMITTEE COLLEGE OF HEALTH SCIENCES AND IUTH MEMBERSHIP**

- a. Provost ----- Chairman
- b. CMD, IUTH
- c. Chairman, Medical Advisory Committee, IUTH
- d. College Secretary, CHS
- e. Bursar Igbinedion University
- f. Director of administration, IUTH
- g. Chief Engineer, IUTH
- h. Chief Engineer, Igbinedion University
- i. Secretary: provided by IUTH

### **Duties**

1. To meet periodically to discuss matters of common interest with particular reference to staff projection and physical planning.
2. To integrate the planning efforts of both Hospital and the College and make suggestions regarding priorities.
3. To discuss and lay down procedures for operating all joint services in the College and IUTH.

**NOTE: This Committee should serve only in advisory capacity**

### **OTHER COMMITTEES THAT MAY BE CONSTITUTED**

1. Curriculum Committee
2. Development Committee
3. Finance Committee
4. Library Committee
5. Community Health Programme Management Committee

### ***Staff List of The College of Health Sciences – October 2012***

#### ***Office of the Provost***

<b>S/N</b>	<b>NAME</b>	<b>QUALIFICATION</b>	<b>RANK</b>	<b>STATUS</b>
1	Prof. Jacob Aghomon Unuigbe	MBBS (Ibadan) 1972; MRCOG (UK) 1980; FWACS 1984; FICS 1986; FRCOG 1994	Professor (Provost)	FT
2.	Mr. Olaoke Olasoji Oluwole	BSc Ed, P.E (Uniben) 1996; MBA Business Mgt. (USA)	Assistant Registrar/College Secretary	FT
3.	Mr. Victor Nkwuka-Ekwemalor	ND 1986 HND 1988 (Sec.Admin) Diploma in Computer 1994 ADPA (2000)	Assistant Chief Confidential Secretary	FT
4.	Okena Joy	First School Leaving Certificate	Cleaner	FT

#### ***School of Basic Medical Sciences*** ***Office of Dean, Basic Medical Sciences.***

<b>S/N</b>	<b>NAME</b>	<b>QUALIFICATION</b>	<b>RANK</b>	<b>STATUS</b>
1.	Mr. S. J. Josiah	B.Sc., (ABU) 1986; M.Sc. (Ibadan) (1995)	Associate Professor Ag. Dean	FT
2.	Marvellous I. Oaikhena	Dip COTEC (Comp. Prog.) 1996; B.Sc. Govt/Pub. Admin. (IMSU); M.Sc. Pol. Sc. (Pub. Admin.) 2009 (IUO).	College Officer	FT
3.	Sarah Alohan E.	OND & HND (Sec. Studies)	Snr. Confidential	FT

		1995-1995. Cert. in Computer World Processing (1999) B.Sc (Ed) Bus. Admin. (Secretarial Opt.) 2010.	Secretary	
4.	Okundaye Anthonia	FSLC	Cleaner	FT
5.	Hammed Yetunde	FSLC	Cleaner	FT

### **DEPARTMENT OF ANATOMY**

S/NO	NAME	QUALIFICATION	RANK	STATUS
1.	Dr. O. Adagbonyin	MBBS (Benin), 2003.	Ag. HOD/Lect. II	FT
2.	Dr. O. P. Ogundigie	B.Sc., (Metu) 1983; M.Sc., Biol (Metu) 1985; PhD Med. Sc. (Hiroshima) 1995.	(HOD) Reader	FT
3.	Prof. D. L. Baxter Grillo	LRCP, LRCSI; LLN; (1955) D.C.H(Dublin) FMC Surgery (Nigeria) Ph.D.(Ibadan): FASN, (2006)	Professor	PT
4.	Prof. Uche Nwachi	L.R.C.P.; L.R.C.S.; LMDCH, Ph.D.	Professor	FT
5.	Dr. S. S, Adebisi	B.Sc.Anatomy (Calabar), 1997. M.Sc. (2006), PhD	Reader	PT
6.	Dr. G.I Eze	MBBS, M.Sc (Anatomy); FWACP	Snr. Lecturer	PT
7.	Miss Uche Okwuonu	B.Sc. Anatomy (Calabar) 1997; M.Sc. 2006	Lecturer I	FT
8.	Mr. Omotoso Dayo Rotimi	B.Sc., (UNILORIN) 2005; M.Sc. (UNIBEN) 2010.	Asst. Lecturer	FT
9.	Dr. I. Imosemi	B.Sc., (Hons) Human Anatomy 1995 M.Sc. Human Anatomy 2006; Ph.D 2011	Associate Lecturer	PT
10.	Bienonwu Emmanuel O.	B.Sc. Anatomy (Ilorin) 2004, M.Sc. Anatomy (UNIPOINT) 2010	Asst. Lecturer	FT
11.	Miss M. Igemokhai	OND Secretarial Studies	Departmental Secretary	FT

### **TECHNICAL STAFF – ANATOMY**

S/NO	NAME	QUALIFICATION	RANK	STATUS
1.	Mr. E. O. Woghiren	FIMLS (1972); (London), ANIM (1986); (Nig).	Chief Med. Lab. Scientist	FT
2.	Mr. Samuel Airhumwunde. Izekor	First School Leaving Certificate Proficiency.	Laboratory Supervisor	FT
3.	Mr. Emmanuel Salami Akpata	First School Leaving Certificate	Snr Mortuary Attdt	FT
4.	Mr. Eghosa. Omorogiuwa	WASC	Snr. Lab Asst.	FT
5.	Miss Joan Odion Omoregie	SSCE	Snr. Lab. Asst.	FT

6.	Mr. Omos Eriamiatoe	WASC	Lab. Asst	FT
7.	Mr. Anietie E. John	SSCE	Lab. Asst	FT
8.	Mr. Victor Omogiade	First School Leaving Cert.	Lab. Asst	FT

#### DEPARTMENT OF BIOCHEMISTRY

S/NO	NAME	QUALIFICATION	RANK	STATUS
1.	Prof. G. O. Emerole	B.Sc, Ph.D. (Ibadan)	Professor	FT
2.	Prof. A. U. Osagie	BSc. Ibadan (1970), MSc. (1972); Ph.D. Manchester (1974).	Professor	PT
3.	Mr. S. J. Josiah	B.Sc., (ABU) 1986; M.Sc. (Ibadan) (1995)	Senior Lecturer Ag. HOD	FT
4.	Dr. Digban K.A.	AIMLS 1999;FMLSCN 2001; MSc 2003; PhD 2008	Lecturer I	FT
5.	Mr. S. E. Uhunmwangho	B.Sc. (Ibadan) 1998); M.Sc. 2000.	Lecturer I	FT
6.	Dr. Asuk, Atamgba Agbor	M.Sc. Biochem. (Donetsk,Ukscine)1996, Ph.D. Nutrition & Food Sciences (Unical Calabar)	Lecturer II	FT
7.	Mr. Nwangwu Spencer	B.Sc. (1999) Awka M.Sc. (2004)	Lecturer I	FT
8.	Helen K. Njoya	B.Sc.1995 M.Sc. 1997	Lecturer II	FT
9.	Erifeta Georgina O.O.	B.Sc. Biochem. (1999) M.Sc. 2007	Lecturer II	FT
10.	Mr. Kingsley Oimage	B.Sc. (Ekpoma)2003 M.Sc. (Benin) 2007	Lecturer II	FT
11.	Ivie Omogiade	Computer/Economics Education (College of Education, Ekiadolor, B/City) 2008.	Departmental Secretary	FT

#### TECHNICAL STAFF

S/NO	NAME	QUALIFICATION	RANK	STATUS
1.	Mr. Chukwu Anene Benedict	OND 1978, HND Food Sciences & Technology 1982, (ANIST) 1984 (MNIST) 1990, P.GD 1999	Chief Technologist	FT
2.	Aderoju Omolora Favour	B.Sc. Biochemistry	Technologist II	FT
3.	Mr. Nelson Asogu	SSC	Snr. Lab. Asst.	FT
4.	Mr. Adebisi Kayode A.	SSCE, GII	Animal House Attdt.	FT
5.	Mr. Nya Eyibio Nya	Junior School Certificate 1991	Lab. Attendant	FT

**DEPARTMENT OF PHYSIOLOGY**

<b>S/NO</b>	<b>NAME</b>	<b>QUALIFICATION</b>	<b>RANK</b>	<b>STATUS</b>
1.	Prof. V.I. Iyawé	MBBS 1978; Dip Sport Med (Edin) 1984;, Ph.D Physiol (London) 1985	Professor (Visiting)	PT
2.	Dr. Ifedayo Ajayi	AIMLS 1991; FIMLS 1997; M.Sc (Benin) 2000; Ph.D Benin 2009.	Senior Lecturer	PT
3.	Mr. Ajeigbe Kazeem O.	B.Sc. 2001, M.Sc. (Physiology) 2006,	Lecturer I	FT
4.	Adeniran Akinola	BSc Physiol (Ilorin) 2003; MSc Physiol (Ibadan) 2009	Assistant Lecturer	FT
5.	Miss O. I. Adedotun	B.Sc. AAU (2007); M.Sc. Ibadan (2011) Physiology.	Asst. Lecturer	FT
6.	Akpan Ogechi	Dip Sec. Admin.	Departmental Secretary	FT

**LIST OF TECHNICAL STAFF**

<b>S/NO.</b>	<b>NAME</b>	<b>QUALIFICATION</b>	<b>RANK</b>	<b>STATUS</b>
1.	Bielu Michael	HND (SLT) 2006; Pharm/Physiol (SLT) 2009	Technologist I	FT
2.	Enitan Samsion	BMLS AAU (2006)	Medical Laboratory Scientist II	FT
3.	Mr. Enyidedie Samuel	B.Sc Physiology	Technologist II	FT
4.	Mr. Matthew Idemudia	SSCE / NECO	Snr. Lab Assistant	FT

## *School of Clinical Medicine*

### **OFFICE OF THE DEAN**

<b>S/NO</b>	<b>NAME</b>	<b>QUALIFICATION</b>	<b>RANK</b>	<b>STATUS</b>
1	Professor Bazuaye G.N.	MB.BS (1993); FMCPATH (2002). Cert. Stem Cell Transplant (Basel Switzerland) 2010	Professor, Dean	FT
2	Dr. A.A. Uduoise	MB.BS; (1992) FWACS (2004)	Lecturer I Sub-Dean	FT
3	Miss. Joy Pearl Idehen	Dip. Bus. Mgt (AAU) 1998; BSc. Bus. Admin (AAU) 2002		FT
4	John Ohiokhuaobo Aigbokhaode	HND, Business Admin. 1994; PGD Bus. Admin 1997; 50/100 WPM Typewriting/Shorthand 1994; Computer Literate Certificate 2000	Principal Confidential Secretary II	FT
5	Ujeh Williams Dele	FSLC. SSCE, Trade Test Cert, Grade I, II&III	Driver	FT
6	Miss. Omale Mary	FSLC	Cleaner	FT
7.	Owie Felix	FSLC	Driver	FT

### **HEADS OF DEPARTMENT**

- |                                       |                     |
|---------------------------------------|---------------------|
| 1. Anaesthesia                        | Dr. G.O. Iyasere    |
| 2. Community Medicine                 | Dr. A Labiran       |
| 3. Medicine                           | Prof. V.A Josephs   |
| 4. Obstetrics &Gynaecology            | Prof. J.A. Unuigbe  |
| 5. Paediatrics                        | Dr. D.O. Osaghae    |
| 6. Surgery                            | Prof. L.C. Chiedozi |
| 7. Pharmacology                       | Dr. J.C. Nwanze     |
| 8. Morbid Anatomy                     | Dr. F. Nwachokor    |
| 9. Chemical Pathology                 |                     |
| 10. Haematology and Blood Transfusion | Prof. Bazuaye G.N.  |
| 11. Radiology                         | Prof. T.T. Marchie  |
| 12. Medical Microbiology              | Prof. M.I. Agba     |

**DEPARTMENT OF ANAESTHESIOLOGY**

S/NO	NAME	QUALIFICATION	RANK	STATUS
1	Dr. Iyasere G.O.	MBBS (Ibadan) 1972; FFRARCS 1982, FWACS	Senior Lecturer HOD	FT
2	Dr. S. Ukpomwan	MBBS (Ibadan) 1969; FFARCS 1974; FMCS, 1980, FWACS 1980	Senior Lecturer	FT
3	Dr. I.K. Iweagwu	MBBS (Calabar) 1995; FWAC 2011	Lecturer I	FT
4	Dr. (Mrs) N. Aivboraye:	MD; DA (1992)	Lecturer II	FT
5	Dr. (Mrs.) B.A. Okonofua	B.Sc BM, BCH, DA.	Lecturer II	FT
6	Igemokhai Martina	HND Secretarial Studies	Secretary	FT

**DEPARTMENT OF COMMUNITY HEALTH**

S/NO	NAME	QUALIFICATION	RANK	STATUS
1	Dr. Adetunji Labiran	MBBS, MPH, FMCPH	Senior Lecturer/HOD	FT
2	Dr. P.W. Okogie	MBBS; MPH. FMCPH	Lecturer I	FT
3	Dr. Ewemade Igbinedion	MBBS, MPH	Lecturer II	FT
4	Mr. Emmanuel Olukoya	MBBS MPH	Lecturer II	FT

**DEPARTMENT OF MEDICINE**

S/NO	NAME	QUALIFICATION	RANK	STATUS
1	Professor Veronica Adaku Josephs	MBBS (1981); FWACP(1992)	Professor/HOD	Sabbatical
2	Dr. O. Osarenkhoe	MBBS (1992) Part I FWACP 2008	Lecturer II	FT
3	Dr. (Mrs.) Ugiagbe R.A.	MBBS (Uniben) 2000; FMCP 2010	Senior Lecturer	FT
4	Dr. E.K. Iyasere	MBBS (Ibadan) 1972; FFARCS 1982, FWACS	Lecturer I	FT
5	Dr. C. E. Eigbe	MBBS (Benin) 1990; FWACP 2005	Lecturer I	FT
6	Dr. Agbonile O.A.	MBBS (Benin) FWAC Psych	Lecturer I	FT
7	Dr. S.O. Olotu	MBBS (Benin) FWAC Psych	Lecturer I	FT
8	Akpan Ogechi (Mrs)	Diploma Secretarial Studies	Departmental Secretary	FT

**DEPARTMENT OF OBSTETRICS AND GYNAECOLOGY**



S/NO	NAME	QUALIFICATION	RANK	STATUS
1	Professor Jacob Aghomon	MBBS (Ibadan) 1972; MRCOG (UK) 1980; FWACS 1984; FICS 1986 FRCOG	Professor/HOD	FT
2	Professor A.O. Ilesanmi	MBBS (Benin); FWACS FICS FMCS	Professor	PT
3	Dr. Erhatimwomon A.R.	BSc (Hon) 1981 Ofo; MB:CHB; 1984 (Ife) FWACS 2004	LecturerI	FT
4	Dr. J.O. Uwaifo	MBBS FMCS	Senior Lecturer	PT
5	Dr. G.E. Agbon-Ojeme	MBBS (Ibadan) 1982; FWACS 2001; FMCS 2006	Lecturer I	FT
6	Dr. M.O. Imologhomhe	MBBS (Benin) 1985; FWACS 2003	Lecturer I	FT
7	Mrs. Doris Oseh	HND Secretarial Studies	Departmental Secretary	FT

#### DEPARTMENT OF PAEDIATRICS

S/NO	NAME	QUALIFICATION	RANK	STATUS
1	Dr. D.O. Osaghaemni	MBBS (Benin) 1978 FWAC Paed 1987	Senior Lecturer(HOD)	FT
2	Dr. D.C. Amiebenomon	FMC (Paed) 1986; MBBS (Ibadan) 1978	Senior Lecturer	FT
3	Dr. N.O. Asemota	MD. (1978) FMC Paed (1984)	Senior Lecturer	FT
4	Professor O.O. Oviawe	MBBS (1972); FMC Paed (1981); FWACP (1986)	Professor	FT
5	Dr. O.W. Osarogiagbon		Lecturer I	FT
6	Dr. (Mrs.) I.A. Mbarie	MBBS (Benin) 2000; FWCPaed 2009	Lecturer I	FT
7	Dr. E.I.O. Woghiren	MBBS (Ibadan) 1979; FWACS 1984; FMCPaed	Lecturer I	FT
8	Mrs. T.O.N. Ekwemalor	SSCE;GCE Confidential Secretary III	Departmental Secretary	FT

#### DEPARTMENT OF SURGERY

S/NO	NAME	QUALIFICATION	RANK	STATUS
1	Prof. L.C. Chiedozi	BA Hon. (1964); MD (1969); DABS (1975); FICS (1976); FACS (1981); FMCS (1982); FWACS (1982); Cert BLap. Surg (1994)	Professor Gen.Surg/Oncology HOD	FT
2	Dr. J. A.A. Awe	MBBS (Ibadan) 1974; FRCS (Ireland) 1981; Cert BLapSurg 1994; FWACS 1997; FICS 2000	Professor Gastroenterology	FT
3	Dr. A.A. Uduoise	MBBS (Benin) 1992; FWACS 2004	Lecturer I Ophthalmology	FT
4	Dr. I.Z. Asogun	MBBS, FWACS (2000)	Senior Lecturer	PT
5	Dr. B.O. Uwadiae	MBBS (Benin) 1990. FRCSI 1999; Dip, Ortho, Rehab (Dundee) 2004; Dip Sports Injury (Dublin) 2005	Lecturer I Orthopedics	PT
6	Dr. Okundia P.O.	MBBS 1994; FWACS 2009	Lecturer I ENT Surgery	PT
7	Prof. I. Evbuomwan	MBBS (India) FRCS 1976, FWACS 1982, FICS 1987	Lecturer I	FT
8	Mrs. Ogbeide Ivie	Computer/Economics Edu (2008)	Departmental Secretary	FT

#### DEPARTMENT OF PHARMACOLOGY

S/NO	NAME	QUALIFICATION	RANK	STATUS
1	Dr. J.C Nwanze	MB.BS. (1983); M. Sc. (Pharm.) (1999)	Senior Lecturer HOD	FT
2	Prof. N.G. Osifo.	BSc Hon. (Ibadan) 1973; MBBS (Ibadan) 1975; MD 1983; DABCP (USA) 1994.	Professor	FT
3	Dr. Asalu A. F	MB.BS (Ilorin) 1990; MS.C (Lagos Pharmacology 2000; MPH (Lagos)2002; FMCP 2006	Senior Lecturer	FT
4	Dr. M. Ojezele	DVM (Ibadan) 1977; M.Sc Pharmacology 2004, PhD Pharm, (Ibadan) 2013	Lecturer I	FT
5	Miss. Ekun Victoria	SSCE; Diploma in	Departmental	FT

		Computer word processing	Secretary	
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#### DEPARTMENT OF MORBID ANATOMY

S/NO	NAME	QUALIFICATION	RANK	STATUS
1	Dr. F. Nwachokor	MBBS (Ibadan) 1980; FMC Path. 1999	Senior Lecturer HOD	FT
2	Dr. A.N. Olu-Eddo	MBBS (Ibadan) 1985; FWACP 1999	Senior Lecturer	PT
3	Dr. MAC Odike	MBBS. (1983); Med Parasitology, FMCPATH	Reader	PT
4	Dr. W. Akhiwu	MBBS (1983); M.Sc.Bioch. (1994)	Senior Lecturer	PT
5	Dr. A.P. Igbe	MBBS (UNN) 1997; FWACP 2008	Lecturer I	FT
6	Miss. Dinah Ibrahim	SSCE; Diploma Computer Word Processing	Departmental Secretary	FT

#### DEPARTMENT OF CHEMICAL PATHOLOGY

S/NO	NAME	QUALIFICATION	RANK	STATUS
1	Dr. J.O. Idemudia	BSc Hons Zoo (Benin) 1989; MBBS (Benin) 1999; FMC Path 2008	Lecturer I	PT
2	Dr. B.O. Akinshipe	BSc (Hon) 1975 ASCP 1976 PG Dip Bact 1976 AIMLS 1976 m.Sc 1982; PhD (Immunology) 1990	Senior Lecturer	FT
3	Mr. Oyewole A. Awoniyi	Dip In Computer word processing, BSc Computer Science	Departmental Secretary	FT

#### DEPARTMENT OF HAEMATOLOGY

S/NO	NAME	QUALIFICATION	RANK	STATUS
1	Professor Bazuaye G.N.	MBBS (1983) FMCPATH (2002) Cert. stem cell Transplant (Basel Switzerland 2010)	Professor HOD	FT
2	Dr. (Mrs.) A.I. Ikusemoro	MBBS (Ahmadu Bello) 2003; FMC	Lecturer I	PT

		Path 2012		
3	Dr. M.U. Nwangu	MBBS (Benin) 1997; FMC Path 2006	Lecturer I	PT
4	Mr. Okeke G. Ifeanyi	SSCE; GCE; Conf Sec. Cert III	Departmental Secretary	FT

#### **DEPARTMENT OF MEDICAL MICROBIOLOGY**

S/NO	NAME	QUALIFICATION	RANK	STATUS
1	Professor M.I. Agba	Dip. Vet. Sci. (1967), BSc MCB (UNN) 1973; M.Sc (Med, MCB) UWI 1979, PhD Mcb/Immunology (1988) FBSN (1977).	Professor	FT
2	Prof. T. Okorie	BSc (Ibadan) 1969; PhD Virology) 1976	Professor	FT
3	Dr. S.O. Samuel	MBBS (Ibadan) 1994; FMCPATH 2004	Senior Lecturer	FT
4	Mrs. Rita Attamah	WASC; Dip. In Computer Word	Departmental Secretary	FT

#### **DEPARTMENT OF RADIOLOGY**

S/NO	NAME	QUALIFICATION	RANK	STATUS
1	Professor T.T. Marchie	MBBS 1986; FWACS 2008	Professor HOD	FT
2	Dr. Igbinovia, O.J.	MBBS 2004; FMCR 2011	Lecturer I	FT
3	Dr. Omorogbe D.M.	MBBS (Uniben) 1988; FWACS 1997	Senior Lecturer	PT
4	Dr. Abubakar, M.M.	MBBS;FWACP 2014	Lecturer I	PT

#### **LIST OF TECHNICAL STAFF**

S/NO	NAME	QUALIFICATION	POSITION	DEPARTMENT
1	Mr., B.H. Oladeinde	AIMLS (Microbiology) 1999	Lab Scientist I	Med. Micro
2	Mr. Misan Olley	HND 1994; AIMLS (med. Micro.) 1998	Lab Scientist I	Med. Micro
3	Mr. Christopher Aye Egbe	AIMLS (Med. Micro) 1998; MSc 2000	Lab Scientist I	Med Micro
4	Mrs. Faith Ilenikena Olley	NABTEB	Lab Attendant	Med. Micro

5	Mr. S.M. Etikerentse	AIMLS (inter) 1962, AIMLS (histo) 1967 HNC (Haematology) 1970; FIMLS (Bacteriology) 1981, M.Sc Microbiology (1990)	Chief Lab Technologist	Haematology
6	Ehiaghe Friday Alfred	BMLS; AMLS	Lab Scientist II	Haematology
7	Ubong-Kingsley Sunday	SSCE	Lab Attendant	Haematology
8	Mr. Felix Osaiyuwu	AIMLS (NIG) 2001	Lab Scientist I	Chemical Pathology
9	Nicholas Uwaifo	AIMLS 2001	Med Lab. Scientist I	Chem Pathology
10	Mr. A. Aluyi	OND Science Lab. Tech. (Ibadan) 1972; HND Comp. Data Processing (1978) Adv. Dip. Computer Studies (1979)	Principal Technologist	Pharmacology
11	Mr. E.O. Woghiren	FIMLS (1972) (London) ANIM (1986) Nig.	Chief Med. Lab. Scientist	Morbid Anatomy
12	Mr. Uwagbor Victor Sola	B.Tech (2010) Anatomy	Technologist II	Morbid Anatomy
13	Innocent Iyare	BMLS (Histopath)	Lab Scientist	

*Curriculum of School of Basic Medical Sciences*

**Office of Dean, School of Basic Medical Sciences.**

<b>S/NO</b>	<b>NAMES</b>	<b>POSITION</b>	<b>QUALIFICATION</b>	<b>STATUS</b>
1.	Dr. S.J. Josiah	Ag. Dean	B.Sc.,(ABU) 1986;M.Sc. (Ibadan) (1995)	FT
2.	Marvellous I. E. Oaikhena	College Officer	B.Sc. Govt/Pub. Admin. (IMSU); M.Sc. Political Science (2010) (IUO)	FT
3.	Mrs. Attamah Rita	Typist II	SSCE with Typewriting	FT
4.	Esquire Evelyn	Cleaner	FSLC	FT
5.	Hammed Yetunde	Cleaner	FSLC	FT

### **Heads of Departments**

Anatomy	Dr. U. C. Okwuonu
Biochemistry	Dr. S. J. Josiah
Physiology	Mr. K. O. Ajeigbe.

**DEPARTMENT OF ANATOMY  
SCHOOL OF BASIC MEDICAL SCIENCES  
COLLEGE OF HEALTH SCIENCES**

### **BRIEF HISTORY OF ANATOMY DEPARTMENT:**

The Department of Anatomy was established as one of the major Departments of the School of Basic Medical sciences in October 2000 for the primary purpose of training students on the MBBS programme. Later in the year 2002, it was accredited by the Medical and Dental Council of Nigeria prior to the conduction of our maiden Part 1 MBBS examination. Furthermore, the Department was given approval to function as a Degree (BSc.) awarding Department in 2008 and eventually started off in 2010. So far the Department have had four sets of graduants and have awarded degrees to fifty three graduates.

### **PHILOSOPHY:**

The philosophy of the department of Anatomy of the School of Basic Medical Sciences of Igbinedion University, Okada is in consonance with the philosophy of education in Nigeria and that of the Igbinedion University.

1. The School of Basic Medical Sciences believes that the Department should produce graduates who will be of high academic standing with adequate practical exposure who can function adequately in medical education processes, research, industrial and clinical relevancies.
2. The Department believes that the students should be trained in theoretical, practical and applied Anatomy and to make them suitable to utilize the knowledge to solve future problems and other applications like practice of medicine, nursing, pharmacy, physiotherapy etc.
3. The Department believes that our graduates should be able to do things as entrepreneurs whether in public service or self-employed.

### **OBJECTIVES:**

The programme will be broad-based in order to produce graduates who will be able to:

1. Train students to acquire basic knowledge of Anatomical Principles.
2. Promote Anatomy as a subject through research that will lead to the acquisition of higher qualification e.g. M.Sc and Ph.D degrees.
3. Teach Anatomy to Medical, Dental, Nursing, Physiotherapy, Pharmacy, Medical Laboratory Science students and other allied disciplines.
4. Be capable of functioning in applied Anatomy.
5. Acquire scientific competence in the use of basic laboratory equipments and practical skill in experimental Anatomy.
6. To train students who can apply the knowledge of Anatomy to life situations.
7. To inculcate the knowledge of Anatomy sufficient for our Students to proceed for further studies in relevant fields of specialization.
8. To train students who can adapt themselves after schooling to various life situation including entrepreneurship.
9. To train students to have knowledge of applied Anatomy as used in Medicine, Pharmacy, Nursing, Veterinary Medicine, Medical and Science Laboratory programmes, Radiography, Physiotherapy, Human nutrition and other related health sciences.

### **ADMISSION REQUIREMENTS:**

Candidates are admitted into the B.Sc degree programmes of the Department in any of the following three ways – through University Matriculation Examination (UME), by Direct Entry, or through Inter- University Transfer.

**(1) University Matriculation Examination (UME) Entry into 100 Level:**

Candidates must have five credits at the Senior Secondary School Certificate Examination or National Examination Council (SSCE or O/L GCE or NECO) in English Language, Mathematics, Chemistry, Physics and Biology at not more than 2 sittings. In addition, the students must pass the University Matriculation Examination (UME). The university reserves the right to further screen the students for admission by oral interview or examination.

**(2) Direct Entry into 200 Level:**

Candidates must have passed at least 3 relevant subjects at the advanced level in the General Certificate of Examination. The subjects include Biology, Chemistry and Physics. However the students must also have satisfied the requirements for matriculation with five credit passes of GCE/SSCE.

**(3) Transfer:**

Transfer students from other departments within the school after completion of 100 level may be considered for admission into 200 level of the B.Sc degree of this university. However the students must have also satisfied the senate requirements to proceed to 200 level which is a  $GPA \geq 1.50$ .

**COURSE CONTENT SPECIFICATIONS/SYLLABUS OF ALL COURSES IN THE PROGRAMME**

**YEAR ONE (100 Level)**

**FIRST SEMESTER**

CODE	COURSE TITLE	UNITS	STATUS
GST 111	Communication in English	2	Compulsory
GST 112	Logic, Philosophy & Human existence	2	Compulsory
GST 113	Nigerian peoples and Culture	2	Compulsory
CHM 111	General Physical chemistry	3	compulsory
CHM 112	General Organic Chemistry	2	compulsory
PHY 111	Mechanics and Principle of Matter, Unit and Dimensions	2	compulsory
PHY 112	General Physics	2	Required
PHY 113	Thermal Physics	2	Required
ZOO 111	Introductory Zoology	3	Required
BOT 111	Introduction to plant science	3	Required
EPS 111	Group Work	0	Compulsory
	TOTAL	23	

**SECOND SEMESTER**



CODE	COURSE WORK	UNITS	STATUS
GST 121	Use of Library study skills and ICT	2	Compulsory
GST 122	Communication in English II	2	Compulsory
GST 123	Communication in french	2	Compulsory
ZOO 121	Functional Zoology	3	Required
CHM 121	General Inorganic Chemistry 1	3	Required
CHM 122	General Laboratory Chemistry	2	Required
CHM 123	General Organic Chemistry 11	2	Required
PHY 121	Electromagnetism 1	2	Required
PHY 122	Modern Physics 1	2	Required
PHY 123	Vibrations, Waves and Optics	2	Required
PHY 100	Practical Physics	1	Required
CSC 123	Computer Application 11	2	Elective
BOT 121	Plants Structure & Function	3	Required
EPS 121	Effective Learning & Examination Technique	0	Compulsory
	TOTAL	28	

## YEAR TWO (200 LEVEL)

### FIRST SEMESTER

CODE	COURSE	UNIT	STATUS
ANA 211	Gross Anatomy of Upper & Lower Limbs	3	Compulsory
ANA 212	General histology and cytology	3	Compulsory
ANA 213	General embryology	3	Compulsory
BCH 211	Introduction to Biochemistry	2	Required
BCH 312	Analytical Biochemistry	2	Required
PHS211	Introductory and General physiology	2	Required
PHS 212	Blood and body fluid physiology	2	Required
PHS 213	Cardiovascular physiology	2	Required
CSC 114	Data processing& file management	2	Elective
GST 211	History and Philosophy of Science	2	Required
	TOTAL	23	

### SECOND SEMESTER

CODE	COURSE	UNITS	STATUS
ANA 221	Gross Anatomy of Thorax &Abdomen	3	Compulsory
ANA 222	Systemic Histology I	3	Compulsory
ANA 223	Systemic Embryology I	3	Compulsory
BCH 222	Carbohydrate Chemistry & Metabolism	2	Required
PHS 221	Renal Physiology	2	Required
PHS 222	Respiratory Physiology	2	Required
PHS 233	NeuroscienceI	2	Required
GST 221	Peace Studies and Conflict Resolution	2	Required
EPS 221	Entrepreneurial studies	2	Required
	TOTAL	21	

## YEAR THREE (300 LEVEL)

**FIRST SEMESTER**

CODE	COURSE	UNITS	STATUS
ANA 311	Gross Anatomy of Pelvis & Perineum	3	Compulsory
ANA 312	Systemic Histology II	3	Compulsory
ANA 313	Systemic Embryology II	3	Compulsory
ANA 314	Relevant Laboratory Techniques	3	Compulsory
PHS 311	Gastrointestinal Physiology I	2	Required
PHS 312	Endocrine and Reproductive Physiology	2	Required
BCH 313	Amino Acid, Lipids and Protein Metabolism	2	Required
BCH 316	Enzymology	2	Required
EPS 311	Entrepreneurial studies	2	Required
BIO 310	Biostatistics	2	Required
	TOTAL	24	

**SECOND SEMESTER**

INDUSTRIAL TRAINING (SIWES PROGRAMME)

6 CREDITS

**YEAR FOUR (400 LEVEL)****FIRST SEMESTER**

CODE	COURSE	UNITS	STATUS
ANA 411	Gross anatomy of head & Neck	3	Compulsory
ANA 412	History of Anatomy and medical genetics	3	Compulsory
ANA 413	Neuroanatomy I	3	Compulsory
ANA 414	Histochemistry I	3	Compulsory
ANA 415	Cell Biology	3	Compulsory
ANA 416	Seminar	3	Compulsory
ANA 417	Comparative Anatomy	3	Compulsory
PHM 310	Introductory Pharmacology	3	Compulsory
	TOTAL	24	

**SECOND SEMESTER**

CODE	COURSE	UNITS	STATUS
ANA 421	Surface and Living anatomy	3	Compulsory
ANA 422	Anatomical & Museum Techniques	3	Compulsory
ANA 423	Neuroanatomy II	3	Compulsory
ANA 424	Histochemistry II	3	Compulsory
ANA 424	Electron Microscopic Technique and Ultrastructure	3	Compulsory
ANA 425	Research Project	6	Compulsory
	TOTAL	21	

**DETAILED COURSE CONTENTS**

## 100 LEVEL:

- ZOO 111: INTRODUCTION ZOOLOGY 3 UNITS  
Man population growth and impact on the biosphere, Faunal biodiversity, invertebrata: Protozoa, coelenterate, platyhelminthesannelida, mollusca, arthropoda, Vertebrata, cephalochordate, pisces, amphibian, repilia, aves, mammalian, Mammalian anatomy, anatomy of *Rattusrattus*.
- CHM 111: GENERAL PHYSICAL CHEMISTRY 3 UNITS  
Atoms, Dalton's atomic theory, atomic masses, Fundamental particles of atom, Atomic structure, Modern electrone theory of atoms Periodicity of the elements, Mole concepts Chemical formulas, equation and calculations. States of matter: gas, liquids and solids. Energetics and thermochemistry, Chemical Kinetics equilibrium and electronicchemistry.
- CHM 112: GENERAL ORGANIC CHEMISTRY 1 2 UNITS  
History survey of the development and importance of organic chemistry, Nomenclature and classes of organic compounds, Homologous series. Functional groups, isolation and purification of organic compounds. Qualitative and quantitative organic chemistry, Resonance and inductive effects Stereochemistry.
- PHY 111: MECHANICS AND PROPERTIES OF MATTERS UNIT AND DIMENSIONS 3 UNITS  
Elements of statistics Vectors and Sealers, simple Vector algebra Linear and circular motion: laws of mechanics keepers' laws, free fall, projects Escape velocity, satellites, weightlessness simple harmonic motion: of rigid bodies, Moments and energy of relation moment of Inertia.
- PHY 112: GENERAL PHYSICS 3 UNITS  
Work Power, momentum, conservation laws- conversation of energy and momentum periodic motion of an oscillatory velocity acceleration of a sinusoidal oscillator Equation of motion of a simple harmonic oscillator, damped oscillator forced oscillation Elastic properties of solids module of Elasticity, fluid mechanic and drodynamis.
- PHY 113: THERMAL PHYSICS 3 UNITS  
Heat and temperature, Thermometers and scales of temperature changes of state, latent heats, critical points calorimetric, specific heats isothermal and adiabatic changes. Gas laws, Kinetics theory of gases Heat transfer: Conduction, Convection and radiation Black body radiation, energy spectrum Stefan's law, Wein's law.
- GST 111: COMMUNICATION IN ENGLISH I 2 UNITS  
Effective communication and writing in English Language skills, writing of essay answers, comprehension, sentence construction, outlines and paragraphs, collection and organization of materials and logical presentation, punctuation.
- GST 112: LOGIC, PHILOSOPHY AND HUMAN EXISTENCE 2 UNITS  
A brief survey of the main branches of philosophy. Symbolic Logic, Special symbols in symbolic logic-conjunction, negation, affirmation, disjunction.
- GST 113: NIGERIAN PEOPLES AND CULTURE 2 UNITS

Study of Nigerian history, culture and arts in pre-colonial times, Nigerian's perception of his world, culture areas of Nigeria and their characteristics, Evolution of Nigeria as a political unit, Indigene/settler phenomenon, Concepts of trade, economic self-reliance, social justice, Individual and national development, Norms and values, Negative attitudes and conducts (cultism and related vices), Re-orientation of moral environmental problems.

**BOT 111: INTRODUCTORY BOTANY 3 UNITS**

Introduction to plant science: diversity of living organism, habitats, life forms, mode of nutrition, size shape et., element of ecology and common features of living organisms; nomenclature and classification. Plant cell, functions of organelles: Brief survey of viruses, bacteria PPLO, General survey of plants in the five kingdoms, highlighting their life cycles and evolutionary relationship.

**CSC 113: COMPUTER APPLICATION 1 3 UNITS**

General introduction to Computer Science, Computer hardware (History of computer, generation of computer, evolution & types of computers, classification of computers, architecture, data representation in memory, typical computer configuration Computer Software (History & Generation, software types programming Languages and feature, introduction to Window & DOS operating system). Programming steps. Organization chart of computer centre, categories of computer application, use of computer advantaged & disadvantages of computers, introduction to word processing, Data communication (Basic concept & methods, Computer networks, Internet & E-mail concept). Data processing (Properties, Type of processing, batch processing). Number representation (Binary mathematics, Number conversion). Computer Viruses and protections. Practical Session. Physical Computer operation, hardware study.

**BOT 121: PLANT STRUCTURE AND FUNCTIONS 3 UNITS**

The flowering plant structure and functions, similarities and differences in plant features. Plant in action including respiration, photosynthesis, water relations, translocation and mineral nutrition plant reproduction, seed production and germination.

**ZOO 121: FUNCTIONAL ZOOLOGY 3 UNITS**

Embryology; Gametogenesis, fertilization and cleavage as demonstrated by amphioxus, Genetics: The Cell and distribution of genetic material, mitosis, meiosis, inheritance, sex determination and sex linked inheritance. History; Cell tissues, organ formation and main features. physiology; Function of mammalian skin, muscles/skeletons, alimentary system/nutritional requirements and deficiencies.

**CHM 121: GENERAL INORGANIC CHEMISTRY 3 UNITS**

Periodic table and periodic properties, chemical bonding and theory, Hybridization. Structure of solids. The chemistry of selected representative elements. Qualitative Analysis.

**CHM 122: GENERAL LABORATORY CHEMISTRY 2 UNITS**

Theory and practice of qualitative chemical analysis acid- bases, oxidation-reduction, precipitation and complexometric titrations, Gravimetric analysis. Calculations, data analysis and organic analysis for elements in Group II, IIIA IIIB, IV- Chemical analysis etc.

**CHM 123: GENERAL ORGANIC CHEMISTRY 2 UNITS**

Polar functional group chemistry, Alcohols and phenols Aldehydes and ketones, Carboxylic acid and derivatives (anhydrides and acid halids amides) Amino acids, fats and oils, carbohydrates and natural products.

PHY 121: ELECTROMAGNETISM I 3 UNITS

Electrostatics, Electric field, strength flux inverse square law- Coxcomb law of force Gauss law, simple applications to electric fields and potentials; fields due to simple charge distribution; energy in electric field; capacitance; combination of Capacitance dielectrics; polarization energy stored in capacitors; changing and discharging of capacitor (time constant). Electric dipoles electric fields and potential due to dipoles, in electric fields work done due to dipoles.

Steady current, simple circuits, potential difference holmic law power: electromotive force; internal resistances combination of resistance combination of cells, Kerchoffs, Laws: measurement of electrical qualities; potentiometer, heat Sore bridge: potential dowdier (General of circuit theory) Magnetic effect of currents. Magnetic fields due to simple electric circuits Electromagnetic forces; moving coil galvanometer, ammeters Voltmeters.

PHY 122: MODERN PHYSICS I 2 UNITS

Atomic nature of mater, discovery of the electron quantization of electricity (Milikans experiment) cathodes rays, Measurement of electric charge; specific charge (e/m).Structure of the atom, atomic model, Thomson's model; Rutherford's nuclear model.Bohis model; the hydrogen atom. The nuclear ; Structure of the nuclear; size binding energy of the nuclear binding fraction packing fraction x –rays production of X –Rays Properties of X –Rays, Application. Of X- Ray diffraction; Braggs equation, X-ray spectra (continuous and line spectra) Mosely's equation and application.

Planck quantum theory,; de-Brag lies hypothesis wave particle duality Radioactivity-natural and artificial radio activity  $\alpha$   $\beta$   $\gamma$  decays.

Detection of radiations.

PHY 123: VIBRATIONS, WAVES AND OPTICS I 3 UNITS

Waves –types of waves Characteristics of waves propagation of waves in material media. Vibrations in solids, propagation of sounds in solids, liquids and gases, Sound wave, wave theory of light; polarization of light Rectilinear propagation of light reflection Refractions; mirrors, lenses, lens combinations; optical instruments

Doppler effect , Echo, sound ranging Ultrasonic and application of these.

PHY 100: PRACTICAL PHYSICS 1 UNIT

Selected Experiments related to the course

GST 121: USE OF LIBRARY, STUDY SKILLS AND ICT 2 UNITS

Brief history of libraries, library and education, University libraries and other types of libraries, study skills (reference services. Types of library materials, using library resources including e-learning, e-materials, etc, understanding library catalogues (card, OPAC, etc) and classification, copyright and its implications, Database resources, Bibliographic citations and referencing, Development of modern ICT, Hardware technology, software technology, Input devices, storage devices, Output devices, communication and internet services, word processing skills (typing, etc).

GST 122: COMMUNICATION IN ENGLISH II 2 UNITS

Logical presentation of papers, Phonetics, Instruction on lexis, art of public speaking and oral communication, figures of speech, precise report writing.

GST 123: COMMUNICATION IN FRENCH 2 UNITS

Introduction to French, Alphabets and numeric for effective communication (written and oral), Conjugation and simple sentence construction based on communication approach, sentence construction, comprehension and reading of simple texts.

CSC 123: COMPUTER APPLICATION 3 UNITS

Aim and objectives of package, Structure of packages, Difference between packages and conventional programming languages, capabilities and limitation of packages; Types/Class of packages (word processor, spreadsheet, graphic animation, 3D, Utilities, database), Study and practical use of Windows. Word, Excel Power point, and Access Practical Session. Students shall be expected to study and practice heavily on their own five current software packages.

200 LEVEL

FIRST SEMESTER

ANA 211: INTRODUCTORY ANATOMY AND GROSS ANATOMY OF UPPER LIMB AND LOWER LIMBS 3 UNITS

Introductory Anatomy:

Descriptive terms, planes and terms of relationship of the human body, terms of comparison, attachment of muscles, types of muscles, movements of joints, osteology, principles of kinesiology, general organization of body systems.

Upper Limb:

Pectoral region and mammary gland; axilla and brachial plexus, back deltoid and scapular regions, arm, forearm, hand, bones and joints.

Lower Limb:

Front and medial sides of the thigh, gluteal region, back of the thigh and popliteal fossa, leg, sole of foot, bones and joints. Surface Anatomy, Applied and Reagiological Anatomy of Upper and Lower Limbs.

ANA 212: HISTOLOGY OF BASIC TISSUES 3 UNITS

Components of the cell, cell cycle, chromosomes, protein secretion and transcription of DNA. Introduction to light microscopy, electron microscopy and units of measurement. Basic tissues of the body, the epithelial, connective tissues and nervous tissue. Lymphoid Organs.

ANA 213: GENERAL EMBRYOLOGY 3 UNITS

Gametogenesis, cyclic changes in the female genital tract, fertilization, blastocyst, gastrulation and formation of germ layers, segmentation of mesoderm, folding of embryo, fetal membranes, umbilical cord and placentation. Development of limbs and teratology. Developmental anomalies and clinical syndromes.

## SECOND SEMESTER

ANA221: GROSS ANATOMY OF THORAX, AND ABDOMEN, 3 UNITS

THORAX: Thoracic wall, pleura, lungs, heart, and coronary vessels mediastinum and diaphragm.

ABDOMEN: Anterior abdominal wall and hernia, external genitalia, peritoneum, stomach and intestines, blood supply, gut. Liver, pancreas, spleen, kidney and supra-renals.

ANA 222: SYSTEMIC HISTOLOGY (ORGANOLOGY) 3 UNITS

Cardiovascular system, skin, gland of the skin, structure of nails and hair. Respiratory system. Digestive system, urinary and genital systems. Electron micrographs studies of each organ.

ANA 223: SYSTEMIC EMBRYOLOGY (ORGANOGENESIS) 3 UNITS

Development of cardiovascular system, integumentary system, respiratory system, digestive system, urogenital system. Developmental anomalies and clinical syndromes.

## YEAR THREE

### FIRST SEMESTER

ANA 311: GROSS ANATOMY OF PELVIS AND PERINEUM. 3units

Male and female perineum, pelvis wall and floor, pelvic peritoneum, viscera nerves and vessels. Surface anatomy.

ANA 312: SYSTEMIC HISTOLOGY II 3 UNITS

Spinal cord, brain stem, cerebrum, cerebellum, sensory receptors, eye, ear, and nose. Histology of endocrine organs.

ANA 313: SYSTEMIC EMBRYOLOGY II 3 UNITS

Development of face, pharyngeal derivatives and teratology. Development of nervous system, and sense organs. Developmental anomalies and clinical syndromes

ANA 314: RELEVANT LABORATORY TECHNIQUES 3 UNITS

The principal step by step methods of tissue processing for light microscopy to be taught and demonstrated. The principles and techniques for the use of advance light microscopes will be taught and where possible demonstrated ie. Polarizing microscope, phase contrast, interference microscope, dark field microscope and ultraviolet microscope.

## YEAR FOUR

### FIRST SEMESTER

ANA 411: GROSS ANATOMY OF HEAD AND NECK 3 UNITS

Face, scalp, back and spinal cord, cranial cavity, orbit, parotid, temporal and infratemporal regions, triangles of the neck, submandibular region, nerves and vessels in deep dissection of the neck. Thyroid and parathyroid glands, prevertebral region and joints of the neck, mouth, tongue, pharynx, palate, nasal cavity and sinuses, larynx, ear and eye.

ANA 412: HUMAN GENETICS 3 UNITS

Fundamental human genetic principles, variation in gene expression in man, patterns of inheritances in families (autosomal dominant, autosomal recessive, X-linked dominant, X-linked recessive, Y-linked and sex influenced). Cytogenetics, types and classification of human chromosomes, methods of preparations of human chromosomes and

karyotyping. Types of numerical and structural chromosomes, aberrations and causes. Gene hybridization and human genome studies.

ANA 413: NEUROANATOMY 3 UNITS

Meninges, base of brain and blood supply, hindbrain, medulla, pons, cerebellum and 4<sup>th</sup> ventricle, midbrain, diencephalons and 3<sup>rd</sup> ventricle, cerebral hemispheres, sulci and gyri, internal structure of cerebrum and lateral ventricle, basal nuclei, thalamus, and hypothalamus, synapses and reflex arcs. Sensory and ascending pathways, motor and descending pathways, cerebellar connections- pathways for hearing, smell and vision. Autonomic nervous system.

ANA 414/424: HISTOCHEMISTRY I & II 3/3 UNITS

Principles and techniques of histochemistry including immunocytochemistry.

## SECOND SEMESTER

ANA 421: SURFACE AND LIVING ANATOMY 3 UNITS

Practical cum demonstration exercises to map out surface representations of major internal organs of the body. Recognition and demonstration of major visible anatomical features of the living human subject.

ANA 422: ANATOMICAL AND MUSEUM TECHNIQUES 3 UNITS

Techniques for preservation of gross anatomical tissues for teaching and research. These will include embalming and Cadaver preservation. Wet and dry specimen preparation techniques for the museum set –up and maintenance.

ANA 424: INTRODUCTION TO ELECTRON MICROSCOPY ELECTRON MICROSCOPIC TECHNIQUES AND ULTRASTRUCTURE 3 UNITS

History of electron microscope. Types of electron microscope. Basic principle of the structure and function of electron microscope. Tissue sample acquisition techniques, tissue processing and examination, photographic recording of ultra-structural images shall be taught. Where possible, practical aspects should be demonstrated.

ANA 425: RESEARCH PROJECT 6 UNITS

Students will undertake research projects on simple problems in areas of their interest and guided by their Supervisors. In addition to experimental work, the students will be required to learn how to search and complete the literature review, collect, arrange and present bibliography.

## LIST OF ACADEMIC STAFF

S/N	NAMES	QUALIFICATIONS	RANK	STATUS
1.	Prof. D.L. Baxter Grillo	LRCP, LRCSI: LLN: (1955) D.C.H(Dublin) FMC Surgery (Nigeria) ph.D. (Ibadan): FASN, (2006)	Professor	FT
2.	Dr. Okwuonu U. C	B.Sc. Anatomy(Calabar) 1998; M.Sc. 2006, Ph.D 2016	Lecturer/Ag. HOD	FT
3.	Dr. Adelosoye A	MBBS(Uniben) 2003., M.Sc.,Anatomy (Uniben) 2012, FWACP(2014).	Lecturer	PT
4.	Dr. Adagbonyin	MBBS (Uniben) 2003.	Lecturer II	FT
5.	Mr. Omotoso	B.Sc.(Ilorin) 2005; M.Sc. (Uniben) 2010.	Lecturer II	FT
6.	Mr. Bienonwu	B.Sc. (Ilorin) 2004; M.Sc. (Uniport) 2010.	Lecturer II	FT



**LIST OF TECHNICAL/NON-ACADEMIC STAFF**

<b>S/N</b>	<b>NAMES</b>	<b>RANK</b>	<b>QUALIFICATIONS</b>	<b>STATUS</b>
1	Uwagbor V.S.	Technologist II	B-TECH	FT
2	Izekor .S. O	Laboratory Supervisor.	School leaving cert, Modern 3 Certificate.	FT
3	Akpata .E. S	Snr. Mortuary attendant	Primary six certificate	FT
4	Eriamiatoe .O	Laboratory assistant	Primary six certificate	FT
5	Omorogiuwa E. F	Snr. Laboratory Assistant	SSCE	FT
6	Omogiade V	Laboratory Assistant	Primary Six certificate	FT

**DEPARTMENT OF BIOCHEMISTRY  
SCHOOL OF BASIC MEDICAL SCIENCES  
COLLEGE OF HEALTH SCIENCES  
IGBINEDION UNIVERSITY, OKADA**

### **HISTORY OF BIOCHEMISTRY PROGRAMME**

The Department of Biochemistry in the College of Health Sciences, Igbinedion University, Okada was established in 2000 sequel to the approval and establishment of the University in 1999. The Igbinedion University is the first private University that started Medicine as a course of study. The Department of Biochemistry was established on the 25<sup>th</sup> September, 2000, in the School of Basic Medical Sciences to cater for the medical biochemistry programme required to satisfy the Basic Medical Sciences requirements for MBBS degree programme. The B.Sc. degree programme was introduced in the year 2000.

The Department of Biochemistry today run full B.Sc. degree programme and teaches Biochemistry courses to students in the Basic Medical Sciences (Anatomy, Biochemistry, Physiology and Medical laboratory sciences), Nursing, Biological Sciences and College of Pharmacy. The curriculum is broad-based and the scope gives a solid background to the students.

This will enable those that are Biochemistry majors to play a significant role in a variety of areas namely health, environment and agriculture.

### **PHILOSOPHY AND OBJECTIVES OF BIOCHEMISTRY PROGRAMME**

**Philosophy:** The philosophy of the Department of Biochemistry of Igbinedion University, Okada is in accordance with the philosophy of Education in Nigeria and that of the Igbinedion University, thus:

1. The Department should produce graduates who will be of high academic standing with adequate practical exposure that can function adequately in the improvement of medical education processes, research, industrial and agricultural.
2. The Department believes that the students should be trained in theoretical, practical and applied Biochemistry, which will make them suitable tools capable of utilizing the knowledge to solve future problems in medicine, agriculture, industry, environment etc.
3. The Department believes that our graduates should be able to do things as entrepreneur whether self-employed or in public service.

### **Objectives of the B.Sc. degree programme in BIOCHEMISTRY**

1. To inculcate into the students a broad-scientific discipline.
2. To provide students with a broad and balanced foundation of biochemical knowledge and practical skills.
3. To develop in students the ability to apply knowledge and skills to solving theoretical and practical problems in biochemistry.
4. To develop in students, a range of transferable skills that are of value in biochemical and non-biochemical employment.
5. To provide student with knowledge and skills base, from which they can proceed to further studies in specialized areas of biochemistry or multidisciplinary areas involving biochemistry.

6. To provide thorough training and orientation, an appreciation of the solitary rewards of inter-and multidisciplinary approach to the solution of complex life problems.
7. To generate in students, an appreciation of the importance of biochemistry in industrial, economy, environment, technology and social development.
8. To instill in students a sense enthusiasm for biochemistry, in appreciation of its application in different contexts and to involve them in an intellectually stimulating and satisfying experience of learning and studying.
9. To provide a solid academic background upon which to build more advanced degrees in (M.Sc., PhD).

**Objectives of the Biochemistry programme for Pre-clinical Medicine.**

1. To provide a sound and all round education in the basic science of biochemistry to the medical students
2. To create better awareness of the relevance of biochemistry to medicine in particular and in other ways help to meet the manpower need of the country.
3. To provide specialized training in biochemistry to students
4. To instill in medical students the research skills in biochemistry relevant to the improvement of their medical studies.

**STAFF LIST**

**A ACADEMIC STAFF**

S/ N	NAME	ACADEMIC QUALIFICATION	RANK
1	Dr. Nwangwu, S.C.O	B.Sc. Biochem (1999), M.Sc. Biochem (2004), PhD Biochem (2014)	Senior Lecturer
2	Dr. Josiah,S.J	B.Sc. Biochem (1986), M.Sc. Biochem (1995), PhD Biochem (2014)	Associate Professor
3	Dr. Omage Kingsley	B.Sc. Biochem (2003), M.Sc. Biochem (2007), PhD Biochem (2014)	Lecturer I
4	Dr. Helen K. Njoya	B.Sc. Biochem (1995), M.Sc. Biochem (1997), PhD Biochem (2015)	Lecturer I
5	Dr. Georgina Erifeta	B.Sc. Biochem (1999), M.Sc. Biochem (2007), PhD Biochem (2015)	Lecturer I

## B. TECHNICAL STAFF

S/NO	NAME	QUALIFICATION	RANK
6.	Mr. Chukwu Anene Benedict	OND 1978, HND Food Sciences & Technology 1982, (ANIST) 1984 (MNIST) 1990, P.GD 1999	Chief Technologist
7.	Mr. Umoru A.P.	(a) City & Guilds ) O/L Certificate Intermediate (1968), (b) City & Guilds Advanced Certificate pt. II (1979), AMLIST & AMNIST (1980).	Asst. Chief Tech.
8.	Mr. Osagiede Ehi Paul	B.Sc. Biochemistry (1990)	Technologist II
	Mr. Nelson Asogu	SSC	Snr. Lab. Asst.
9.	Mr. Adebisi Kayode A.	SSCE, GII	Animal House Attendant.
10.	Mr. Nya Eyibio Nya	Junior School Certificate 1991	Lab. Attendant

### ADMISSION REQUIREMENTS INTO THE BACHELOR OF SCIENCES (B.Sc.) BIOCHEMISTRY PROGRAMME

The admission of candidates into the Bachelor of Science Biochemistry programme is done in one of the three ways:

#### **Through University Tertiary Matriculation Examination (UTME)**

In addition to an acceptable pass in UMTE, candidate seeking admission into B.Sc. Degree programme in Biochemistry must have not less than ordinary level credit passes in at least five (5) SSCE /GCE, SSCE /NECO (or acceptable equivalents) subjects including English Language, Mathematics, Physics, Chemistry and Biology in not more than two sittings.

Candidates are, in addition, required to submit themselves for a written examination and oral interview before admission is finally offered to deserving candidates.

#### **By Direct Entry**

Candidates seeking direct entry admission into the Biochemistry programme must in addition to satisfying the University matriculation requirements, have a minimum of two GCE Advanced level passes in relevant Science subjects including Biology, Chemistry and Physics.

Candidates who possess good Diploma Certificate in relevant field of study can be offered direct entry into the Biochemistry Programme.

#### **Inter-University Transfer**

Candidates wishing to transfer into the Department (Biochemistry) from other Universities must obtain and fill the Inter-University Transfer form from the University Admission's Officer.

Each application for transfer will be treated on its own merit. No candidate will be admitted from other Universities unless the College and the Department are satisfied that the candidate has met the minimum academic standard required for each level.

### **EXAMINATION REGULATIONS**

All courses taught during each semester shall be examined at the end of that semester.

Only students who are duly registered for courses in a given semester and have met their financial obligations to the university shall be eligible to sit for examination in those courses.

Students shall report at the stipulated examination halls fifteen minutes before the start of the examination.

No candidate shall be allowed into the examination hall after 30 minutes of the start of the examination or leave within 30 minutes of the conclusion of the examination.

Candidates must not bring into the examination hall any handset, computer, textbooks or notes, or involved in any other form of exam malpractices.

Any candidate caught cheating during examinations must be made to complete the examination malpractice form, which shall be handed over to the Dean for further action.

Candidates shall comply with instructions given by the Chief Invigilator as to the submission of their answer booklet at the conclusion of the examination.

### **COURSE LISTING**

Courses are listed in the hand book in the following categories:

**REQUIRED COURSES OR MANDATORY COURSES (R):** These are courses which the department requires the student to take and pass but may not be used in computing the final degree result.

**CORE COURSES (C):** Courses the students must take and pass and must be used in computing the final result.

**ELECTIVE COURSES (E):** These are courses chosen by the student according to his interest in addition to those he/she must take to complete his degree requirements. The student needs to be guided by his course adviser.

### **PRE-REQUISITE COURSES**

These are courses the knowledge of which is necessary prior to the taking of other specified (usually higher level) courses. A student is deemed to have obtained the pre-requisite knowledge if he obtains a mark not less than 30% but will not be credited with any grade point unless he scores a minimum mark of 45%.

Pre-requisite courses must be reflected where applicable. As much as possible no course shall be a pre-requisite for a course at the same level.

### **QUANTIFICATION OF COURSES**

Courses shall be quantified and evaluated according to credit units. A credit unit refers to lecture/tutorial contact hour per week (i.e. fifteen hours of lecture /tutorial per semester) or three hours of laboratory practical class per week (i.e. forty-five (45) hours per semester).

No course shall be less than two (2) units and no lecture course shall normally be more than four (4) units

### **REGISTRATION FOR COURSES**

In every academic session, the first week of the first semester is usually the period for course registration. The period shall be lecture –free to ensure that the students are fully attended to.

Registration time will be from 8.00am to 4.00pm daily during this period.

Students in every level will be assigned lecturers to register them in the department during the exercise

All the core and required or mandatory courses failed in the previous year/session must be registered first before proceeding with new courses.

Late registration (i.e. beyond the stipulated duration) usually attracts penalty.

Any student who fails to register within two (2) months from the beginning of a session shall forfeit the benefit of taking any examinations in a semester of that session. Such a student shall be deemed to have voluntarily withdrawn from the university and may be readmitted only with the approval of senate.

### **CHANGE OF COURSES**

Intra-University transfer of students into Department (e.g. changing from Pharmacy to Biochemistry etc.) must be completed within one (1) month after lectures begin at the commencement of each semester.

Students wishing to add or drop a subject in any semester may do so using “add and delete” forms. This will be done within two (2) weeks of commencement of lectures in each semester.

### **WORK LOAD**

A student is allowed to register for and take a minimum of thirty (30) credits and a maximum of fifty (50) credits each session (i.e. 15 credit units per semester, minimum, and 25 credit units, maximum).

A graduating student who has less than thirty (30) credits may register for only the number of credits he requires to graduate.

A student desiring to carry more than the maximum prescribed course load must apply to the Dean through the Head of Department.

### **COURSE ADVISER**

A Course Adviser is a member of Academic staff who checks and recommends the approval of students’ registration forms. He guides, advises students and ensures that they make

choices consistent with the degree regulations and requirements. The department appoints course advisers for level of the students.

### **ATTENDANCE TO LECTURES**

Student's attendance to lectures is controlled by an attendance list. This record is kept from the commencement of lectures at the beginning of every semester until lectures have been completed. A student must have attained up to 75% minimum contact hours before he is allowed to take the examination in the particular course. The attendance register shall be used by the course lecturer(s) for the submission of the students' score/grade in that course.

### **EVALUATION OF STUDENTS IN THE UNIVERSITY COURSE WORK**

The students' course work will be evaluated using the following:

- Continuous assessment
- Laboratory practical reports
- Students Industrial Work Experience scheme (SIWES)
- Written examination.

### **GRADING OF EXAMINATIONS**

The final grading of a taught course will consist of continuous assessment (30%) and examination (70%). Continuous assessment comprises assignments, tests and/or practical. The pass mark for every course is 45%.

Students' results are prepared after the examinations every semester. This reflects raw scores, grades, total unit taken, total units passed and total units failed

At the end of a session, a summary of students results is prepared for each level showing the credits taken and the credits passed during the session, the Grade Point Average (GPA), the courses failed, the cumulative unit taken, the cumulative unit passed, the Cumulative Grade Point Average (CGPA) and remarks of proceed, probation (repeat) or withdrawal from the degree programme.

At the end of the degree programme, students results are prepared reflecting details of the session's performance including list of courses failed for the session as well as the cumulative performance and the degree classification (where applicable).

Both the session GPA and CGPA are calculated using the weighted grade point. The weighted graded point of the course is the product of the point and units for the course. Thus a student who scores 80% in a three unit course has a grade point of 5 and a weighted grade point of  $3 \times 5 = 15$  for that course

GPA is calculated from the formula

$$\text{GPA} = \frac{\text{Total Weighted points for all courses in the semester}}{\text{Total Credit Units taken for the semester}}$$

CGPA is calculated from the formula;

$$\text{CGPA} = \frac{\text{Total Weighted Points for the session.}}{\text{Total Credits taken for the session}}$$

Provided that all courses taken are relevant and used in the computation of the averages  
The inclusion of the column for cumulative taken in each of the formats for presentation of result to Senate and to the College Board enables one to keep track record of weighted grade points being carried forward to the next session (being products expressed to the nearest integer of the CGPA and the cumulative units taken) where applicable.

### **PROBATION**

A student who makes a CGPA of 1.50 or more at the end of the session will proceed to the next level of degree programme for which he is registered.

A student at 300 level or below who makes a CGPA of less than 1.50 at the end of the session will be on probation for the following session to enable him improve on the CGPA. During that session he must register for the appropriate core courses and the other courses he has as pre-requisites.

A student on probation during a session who makes a CGPA of less than 1.50 in the following academic session must withdraw from the degree program for which he is registered.

If a student changes to a new degree programme and obtains a CGPA of less than 1.5 in the new programme, he/she will again be on probation. If however he, obtains a CGPA of less than 1.5 a second time in the new programme he will be asked to withdraw from the University.

### **TRANSFER**

Every student seeking transfer from one degree programme to another must complete the necessary form within the stipulated time.

All courses taken in the previous degree programme that are relevant to the new degree programme by the offering department will be used for the computation of CGPA for the new degree programme.

All regulations in respect of the new programme concerning core courses, required courses etc. must be met before graduation.

### **HONOURS CLASSIFICATION**

No student shall qualify for award of an honours degree of the University if he spends more than two sessions (four semester) beyond the normal period allowed for the degree programme

No student who has transferred more than twice will be qualified for an honours degree.

### **AWARD OF DEGREE**

At the end of the degree programme, students' results are prepared reflecting details of the session's performance. This includes list of courses failed for the session as well as the cumulative performance and the degree classification according to the following scheme.

CGPA	CLASS OF DEGREE
4.50-5.00	First Class Honours
3.50-4.49	Second Class Honours (Upper Div.)
2.40 -3.49	Second Class Honours (Lower Div.)



**CONFERMENT OF DEGREE**

After the recommended examination results from the College Board had been approved by the university senate, successful candidates shall be admitted either in person or in absentia to the degree of the university at the convocation for the award of degrees. There after the candidates shall be issued with certificates under the common seal of the university.

**ACADEMIC PROGRAMMES OFFERED IN THE DEPARTMENT OF BIOCHEMISTRY****100 LEVEL****First Semester**

<b>Course code</b>	<b>Course Title</b>	<b>Credit units</b>
BOT 111	Introduction to plant science	3
CHM 111	General Chemistry I (Physical)	3
CHM 112	General Chemistry (Organic)	2
EPS 111	Group Work	0
GST 111	Communication in English Language	2
GST 112	Logic, philosophy & Human existence	2
GST 113	Nigeria People and culture	2
PHY 111	General Physics I	2
PHY 112	General physics II	2
PHY 113	General physics III	2
ZOO 111	General Zoology	3
<b>TOTAL CREDITS</b>		<b><u>23</u></b>

**100 LEVEL****Second Semester**

<b>Course code</b>	<b>Course Title</b>	<b>Credit units</b>
BOT 121	Plant structure & function	3
CHM 121	Inorganic Chemistry II	2
CHM 122	General laboratory Chemistry	2
CHM 123	Organic Chemistry II	2
GST 121	Use of Library, study skills & ICT	2
GST 122	Communication in English Language II	2
GST 123	Communication in French	2
EPS 121	Entrepreneurial Studies	0
PHY 100	Practical Physics	2
PHY 122	Modern Physics I	2
PHY 123	Optics, vibration and waves	2
ZOO 121	Functional Zoology	3
<b>TOTAL CREDITS</b>		<b><u>24</u></b>

**200 LEVEL**

## First Semester

Course code	Course Title	Credit units
BCH 211	General Biochemistry 1	4
MCB 211	General Microbiology 1	3
CHM 211	Organic Chemistry II	3
CHM 212	Physical Chemistry II	3
CHM 214	Analytical Chemistry	3
MTH112	Calculus	3
BIO 210	Introductory Genetics	3
GST 211	History & Philosophy of Science	2
EPS 211	Entrepreneurial Studies	0
<b>TOTAL CREDITS</b>		<b><u>24</u></b>

## 200 LEVEL

### Second Semester

Course code	Course Title	Credit units
BCH 221	General Biochemistry 11	4
BCH 222	Metabolism of Carbohydrates	3
MTH122	Ordinary Differential Equation	3
CHM 221	Inorganic Chemistry II	3
GST 221	Peace studies & conflict resolution	2
CSP 221	Community Service Programme	0

### Elective

CHM 224	Introduction to Environmental Chemistry	<u>3</u>
<b>TOTAL CREDITS</b>		<b><u>17</u></b>

## 300 LEVEL

### First Semester

Course code	Course Title	Credit units
BCH 311	Metabolism of Lipids	3
BCH 312	Methods in Biochemistry	3
BCH 313	Metabolism of Amino Acids & Protein	3
BCH 314	Membrane Biochemistry	2
BCH 315	General Biochemistry Lab. I	2
BCH 316	Enzymology	2
BCH 317	Bioenergetics	2
CHM 311	Organic Chemistry III	3
CHM 316	Physical Chemistry III	3
MCB 311	Immunology	3
BIO 310	Statistics for Biologist	3
BIO 312	Biological Techniques	3
EPS 311	Entrepreneurial Studies II	<u>0</u>
<b>TOTAL CREDITS</b>		<b><u>32</u></b>

### Electives

MCB 313	Microbial Physiology & Metabolism	3
MCB 316	Microbial Genetics/Molecular Biology	3
CHM 324	Instrumental Methods of Analysis	3

**300 LEVEL**  
**Second Semester**

<b>Course code</b>	<b>Course Title</b>	<b>Credit units</b>
BCH 324	Student Industrial Work Experience	<u>6</u>
<b>TOTAL CREDITS</b>		<b>6</b>

**400 LEVEL**  
**First Semester**

<b>Course code</b>	<b>Course Title</b>	<b>Credit units</b>
BCH 410	Plant Biochemistry	3
BCH 411	Metabolic Regulation	2
BCH 412	Advanced Enzymology	2
BCH 413	Industrial Biochemistry	3
BCH 414	Seminar	2
BCH 415	Metabolism of Nucleic acid	3
BCH 417	Biotechnology & Genetic Engineering	3
BCH 418	Advanced biochemical Methods	2
BCH 419	Biochemical Reasoning	<u>1</u>
<b>TOTAL CREDITS</b>		<b><u>21</u></b>

**400 LEVEL**  
**Second Semester**

<b>Course code</b>	<b>Course Title</b>	<b>Credit units</b>
BCH 421	Food & Nutrition Biochemistry	3
BCH 422	Biosynthesis of Macromolecules	2
BCH 425	Clinical & Forensic Biochemistry	2
BCH 426	Tissue Biochemistry	2
BCH 427	Bioinorganic chemistry	3
BCH 428	Pharmaceutical Biochemistry	2
BCH 499	Research Project	<u>6</u>
<b>TOTAL CREDITS</b>		<b><u>20</u></b>

**Elective**

BCH 423	Special Topics in Biochemistry	<u>3</u>
<b>TOTAL CREDITS</b>		<b><u>23</u></b>

**BCH 211 (3) General Biochemistry I**

Importance of Biochemistry to other scientific disciplines. Solutions, Osmotic pressure, Acids, Bases, pH, pOH, pka values and their effects on cellular activities, buffer systems, Henderson Hasselbatch equations. Origin of the building units of molecular/structure and function of major cell components, cell organelles, Hierarchy of molecular organization in cells. Introduction to Biochemical Taxonomy of prokaryotic and eukaryotic organisms. Chemical Kinetics Principles of Nutrition, importance of protein in diet, Nitrogen balance, metabolic rate, calorie deficiency states, Vitamins (structure and functions) Coenzymes and minerals.

### **BCH 221 (3) General Biochemistry II**

Chemistry and structure of carbohydrates, protein, Lipids and Nucleic acids, Blood Lipids and the Lipoprotein System, Nomenclature of Nucleic Acids and Nucleotides, Structure of DNA and significance of different classes of RNA, chemistry of amino acids, proteins and their derivatives, Essential and Non-essential amino acids, methods of Isolation and identification, acidity and alkalinity, primary, tertiary and quaternary structures of proteins and their biochemical significance. Structure/function relationship, hemoglobin and myoglobin

### **BCH 222 (3) Metabolism of Carbohydrates**

Degradation and digestion of carbohydrates i.e. sugars, storage polysaccharides and cell walls. Glycolysis and the tricarboxylic acid (TCA) cycle. electron transport chain and Oxidative phosphorylation, cori cycle. The phosphogluconate pathway and the Glyoxylate pathway, Glycogenolysis and Glycogenesis, Gluconeogenesis, Disorders of Carbohydrate Metabolism.

## **300 LEVEL**

### **BCH 311 (3) Lipid Metabolism**

Review classification of lipids. Lipid micelles, Monolayer and bilayers. Lipoprotein systems. Oxidation and synthesis of fatty acids, cholesterol synthesis. Formation of ketone bodies. Integration of lipid metabolism. Acetyl CoA as a central precursor for biosynthesis of lipids. Disorders of lipid metabolism. Metabolism steroids. Disorders of steroids metabolism. Methods of extraction and purification of lipids. Structure determination. Metabolism of phospholipids and glycolipids. Calmodulin in lipid metabolism. Distribution function, clinical application and biosynthesis of glycolipids, prostaglandins leukotrienes, thromboxanes etc.

### **BCH 312 (3) Methods in Biochemistry**

Principles of Instrumentation and analytical techniques. Principles, methodology and application of electrophoresis, manometry, chromatography, spectroscopy. Centrifugation and isotopic techniques. Ultracentrifugation, Dialysis. X-ray diffraction, viscosity measurement Autoradiography and techniques of Radio labeling. Review of modern techniques in the biochemical laboratory (gene cloning site direction mutagenesis, radiochemical methods)

### **BCH 313 (3) Metabolism of Amino acids and Proteins**

Amino acids and building blocks of proteins. Covalent back bone of proteins, amino acids sequence of proteins. Protein isolations fractionation, purification and characterization Biological functions of proteins. Biosynthesis of amino acids and some derivatives. Ketogenicity and glucogenicity Oxidative degradation of amino acids and metabolism of one carbon unit. Formation and excretion of nitrogenous matter, the urea cycle. Disorders of amino acid metabolism. Protein synthesis and degradation

### **BCH 314 (2) Membrane Biochemistry**

Structure and functions of biochemical membrane, Isolation, characterization and classification of membrane, Chemistry and biosynthesis of membrane, Molecular organization of membrane components, Natural and artificial membrane bilayers, The unit membrane hypothesis, Transport systems - passive, facilitated and active transport of macromolecules and inorganic ions, Ionophores, Roles of biochemical membranes and immunogenicity and immunity, Membranes malfunction and associated diseases:

malfunction of transport system diabetes, sickle cell, jaundice etc: inactivity of membrane enzymes; spherocytosis, elliptocytosis etc; role of membrane malfunction in cancer.

### **BCH 315 (2) General Biochemistry Lab. (Practical)**

Appropriate experiments based on General Biochemistry I and II viz chemistry of amino acids and proteins, carbohydrate, nucleic acids, and lipids enzyme studies. Use of spectrophotometer, correlation between optical densities and yeast cell concentration. Appropriate experiments selected from Metabolic pathways, Food biochemistry, Nutritional biochemistry, Bioenergetics, Drug metabolism, Immunology/ immunochemistry etc.

### **BCH 316 (2) Enzymology**

Revision of chemical kinetics, Classification and Nomenclature of enzymes, Mechanism of enzyme catalyzed reaction. Effects of temperature, pH, ions and inhibitors on Enzyme-catalyzed reactions, Michaelis Menten equation, Allosteric/ Regulatory enzymes, Active sites Estimation of kinetic parameters- enzyme activity,  $K_m$ ,  $V_{max}$ ,  $K_i$ , Zymogen activation Digestive enzymes, Enzymes in Diagnosis.

### **BCH 317 (2) Bioenergetics**

Chemical thermodynamics, Reaction orders, First, Second, Third and Zero order reactions. High energy compounds, Chemical potentials and electrochemical potentials, Redox reactions. Electron transport system and oxidative phosphorylation. Regulation of ATP production, Biochemical oxidation-reduction reactions, Catalysis and activation energy,

### **BCH 324 (6) Students Industrial Work Experience**

Students will be attached to some industrial organization for 6 months from March to August. The organization so attached must bear relevance to the student's area of specialty emphasizing biochemical knowledge and scientific principles. Lecturers should visit the students at least once. At the end of the industrial attachment, three copies of a written report of the student's experiences should be submitted to the department in hard bound cover.

## **400 LEVEL**

### **BCH 410 (3) Plant Biochemistry**

Organization of plant cells, The plant cell wall structure, Nitrogen metabolism i.e pathways of amino acids and protein biosynthesis in plants. Biosynthesis of pyrimidines, purines and nucleotides in plants. Transport and storage nitrogen, seed and leaf protein. Cyanogenic Glycosides and detoxification processes. Biosynthesis and functions of porphyrins, metalloporphyrins, chlorophylls and tetrapyrroles. Photosynthesis, light and dark phases of photosynthesis. The  $C_3$  and  $C_4$  plants and their pathways Crassulacean Acid Metabolism (CAM) plants, Alkaloids – Biosynthesis and functions, Plant – Phenolics: phenylacetic acids, hydroxyl- coumarines, biosynthesis and functions, Biosynthesis and functions of quinines, xanthenes Stilbenes, flavones lignins and tannins. Regulation of synthesis of phenolics, Phytohormones and related compounds, Auxins, cytokinins, Abscisic acid. Ethylene and other plant regulators.

### **BCH 411 (2) Metabolic Regulation**

The relationship of krebs' cycle to protein, carbohydrate, lipid and nucleic acids metabolism. Integration of metabolic pathways. Metabolic control mechanisms Turnover rates and metabolic pools. Regulations of enzymes of metabolic pathways (feedback inhibition. Versus enzymes synthesis. Catabolite repressions end product repression the lactose operon and

arabinose operon). Regulation of protein and amino acid synthesis. Identification of different regulatory mechanism in metabolic pathways.

### **BCH 412 (2) Advanced Enzymology**

Production, Isolation. Purification and Characterization of enzymes Enzyme assays. Criteria for determining purity of enzymes Steady state enzyme kinetics. Transient kinetic methods. Chemistry of enzymes catalysis Regulatory enzymes, Multienzymes complexes Molecular methods for allosterism, Regulation of enzymes activity and synthesis, Enzymes reconstitution, recent advances in enzymology

### **BCH 413 (3) Industrial Biochemistry**

Continuous culture methods, principle and applications. The chemostat and its application in industrial fermentation, Fermentation –Alcoholic, amino acids, antibiotics and other secondary metabolites. Primary and secondary metabolism. Fermentation Biotechnology – beer, wine and spirit production. Garri, malt, wort and beer analyses and visits to local breweries. Over production of metabolites - amino acids, taste enhancers vitamins, Methods for screening and selecting microorganisms and plants for the purpose of over production. Strain selection/development and enhancement. Gene dosage and its application in industrial processes. The biochemistry, chemistry and physiology of cereal germination process with particular reference to barley to barley, sorghum and millet.

### **BCH 414 (2) Seminar**

Topics should address contemporary issues in biochemistry. They may be topics taught in the class or seminar topics given by academic staff, Topics are to be presented orally in a presence of guided studies made of departmental academic staff, students and the interested populace. Three copies of such well – articulated work should be bound and presented to the department for the award of Bachelor of Science (B.Sc.) degree of biochemistry.

### **BCH 415 (3) Metabolism of Nucleic Acids**

Genome organization, Metabolism of purines and pyrimidines. Metabolism of nucleosides and nucleotides. Abnormalities in nucleic acid metabolism, Xeroderma pigmentation and skin cancer.

### **BCH 417 (3) Biotechnology and Genetic Engineering**

A brief review of replication, transcription and translation. Gene expression in prokaryotes and viruses. The genetic code and its relation to cellular function Genetic transformation, transduction and conjugation, DNA replication in cell – free system, Human genome project-prospects and consequences. Recombinant DNA Technology. Application in food industries, Agriculture and medicine. Ethical issues associated with gene manipulation

### **BCH 418 (2) Advanced Biochemical Methods and Use of Library**

Familiarization with operation of latest biochemical equipment. Methods of research, assimilation and dissemination of information, Effective use of library Preparation of dissertation or theses, papers for journal publications and conference.

### **BCH 419 (1) Biochemical Reasoning**

Logical basis of experiments, Evaluation and design of experimental biochemistry from available information and data, Analysis, interpretation and inference – drawing from biochemical research data.

### **BCH 421 (3) Food & Nutrition Biochemistry**

Food classes; Carbohydrates, Fats, Protein, Vitamins, Minerals, water and fiber. Food nutrients energy values of foods and energy expenditure by mammals. Methods for determining the constitution of foods. Biochemistry of food processing, preservation and storage, Food pigments, Confectioneries - Configuration and conformation of sugar. Food contaminants - Toxic substances in food. Food poisoning and intoxication- prevention and cure. Deterioration and spoilage agents of foods, novel sources of proteins. Nutritional disorders prevention and therapy. Nutritional status and nutritional requirements. Recommended dietary allowances. Assessment of nutritional status.

Nutritional requirements in relation to Physiological stress, ageing, pregnancy and athletics (Nutrition of the vulnerable groups), Diet and disease, obesity and under nutrition, Principles of food technology formulations and Practice of food standards.

### **BCH 422 (2) Biosynthesis of Macromolecules**

Structure and functions of macromolecules, storage and structural polysaccharides, mucopolysaccharides glycoproteins, synthesis of complex lipids, lipo – derived antibiotics, dextrans, Ascorbic acids, Lipoprotein. Cell wall structures and related biological macromolecules, Biosynthesis of DNA and RNA, Immunoglobulin, Ascorbic acids

### **BCH 423 (3) Special Topics in Biochemistry**

Hormones, Oncology, Immunochemistry, Brain biochemistry, Monoclonal antibodies. Biochemistry of somatic diseases. Biochemistry of Ageing and senescence

### **BCH 425 (2) Clinical & Forensic Biochemistry**

In born-errors of amino acid metabolism, Pathological urines, Diagnostic enzyme. Cancer and Chemotherapy, Abnormal haemoglobins. Collection, preservation and biochemical analysis of materials of forensic interest. The public analyst in forensic practice.

### **BCH 426 (2) Tissue Biochemistry**

Biochemistry of muscle, Kidney, Liver and adipose tissue. Neurobiochemistry, Nerves, synapses, neurotransmitters. Biochemistry of vision, Blood, cellular components, plasma proteins.

### **BCH 427 (2) Bioinorganic chemistry**

Relationship between the physiochemical properties and biological functions of inorganic ions., Ligand complexes and their biochemical significance. Electrolyte metabolism, Nitrogen fixation and sulphur cycle, Trace elements in biology B.Si, Se, As, Br, F, Cl. Incorporation of Nitrogen and Sulphur, Metals in Biological processes  $\text{Na}^+$   $\text{Mg}^{2+}$ , ionic gradients, mineralization, blood clotting. Metalloproteins including Zn, Pb, Co, Cu and Mo

### **BCH 428 (2) Pharmaceutical Biochemistry**

Cellular metabolism in infected cell, Biochemical aspects of host-parasite relationships. Metabolic factors affecting chemotherapeutic agents. Theories of the mechanism of drug action.

Drug resistance or factors affecting drug efficacy, Physiological and Biochemical action of selected drugs. Traditional medicinal plants, the management and therapy of common ailments malaria, sickle cell anemia, common cold, hepatitis etc., General toxicology.

### **BCH 499 (6) Research Project**

Independent research finding undertaken by students into selected areas of biochemistry. Students will be required to carry out research on a particular topic and produce a written report at the end of the session. Students will be examined on the project undertaken, orally. Project embarked upon should emphasize biochemical principles and mechanisms.

## **BIOCHEMISTRY PROGRAMME FOR BASIC MEDICAL SCIENCES**

### **METHOD OF INSTRUCTION AND ASSESSMENT**

Instructions will be based on lectures, tutorials and practicals for three semesters of 17 weeks each. The allocated teaching periods for lectures, practicals tutorial/demonstration and occasionally, student's seminar is 3 hours of practical and 7 hours of lectures/Tutorials/Demonstration per week. Students will be assessed on a continuous basis with two in-course examinations and the Part I MBBS degree examination will be examined in three parts comprising Essay, multichoice questions (MCQ) and practical as paper I, II, III, respectively. All in-course and end of semester examinations shall contribute 30% while the part I MBBS degree examination shall contribute the remaining 70% of the total score for determining the final grade of the part I MBBS examination.

As a way of ensuring conformity with the set standard for medical education programme, an External Examiner appointed by the academic board of the college moderate all papers of the part I professional degree examination in Biochemistry. Oral examination shall also be organized for all students at the end of the programme and the viva voce score shall be part of the 70% contribution to the final grade of the part I MBBS degree examination.

### **PRE-CLINICAL MEDICINE BIOCHEMISTRY SCHEDULE**

The medical biochemistry courses offered by medical students at both 200 and 300 levels are all compulsory in accordance to the MDCN guide lines.

#### **200 LEVEL MEDICINE FIRST SEMESTER**

##### **BCH 211: Introduction To Biochemistry**

Importance of Biochemistry to other scientific disciplines. Solutions, Osmotic pressure, Acid - base chemistry , pH and buffers. Elementary Thermodynamics, Chemical kinetics and order of reactions, Organic reactions.

**Analytical techniques in Biochemistry:** Cell fractionation, centrifugation, chromatography electrophoresis and spectrophotometry.

##### **BCH 212: Chemistry of Biological Molecules**

**Structural organization of biopolymers:** Biomolecules, supramolecular structures. Structures of cell, cell organelles, cell types (Eukaryotic cells and prokaryotic cells), Integration of cellular function.

##### **Chemistry of fatty acids and lipids**

Classes of lipids, fatty acid and their derivatives, common saturated fatty acids, common unsaturated fatty acids, physical properties of fatty acids, chemical properties of fatty acids, Triacylglycerols. Glycerol phospholipids, sphingolipids, waxes, isoprenoids, steroids, eicosanoids Blood lipids and the lipoprotein systems. Membranes and membrane structure.

##### **Chemistry of Amino acids and proteins**



Amino acids, structures, physical properties, stereochemistry, chemical reactions, peptide bond theory, chemical synthesis of peptides, ionic properties of amino acid (titration curve of glycine), isoelectric points. Protein classification, orders of protein structure, forces stabilizing protein structures.

### **Chemistry of Nucleotides and Nucleic acids**

Structure of purine and pyrimidine bases, structure of D-ribose and 2-deoxyribose sugar, phosphoric acid, nomenclature of nucleotides and nucleosides, physical properties of nucleotides, primary structure of RNA and DNA, Hydrolysis of nucleic acids, isolation of nucleic acids.

### **Recombinant DNA Technology & Genetic Engineering**

Isolation and manipulation of DNA to produce chimeric molecules. Restriction enzymes, DNA ligases, cloning, plasmids, phages, and cosmids. Polymerase chain reactions Practical applications of Recombinant DNA Technology.

## **200 LEVEL MEDICINE SECOND SEMESTER**

### **BCH 221: Metabolism of Biological Molecules and Bioenergetics**

#### **Enzymology**

General properties of enzymes, coenzymes and cofactors, classification of enzymes , kinetics of enzyme catalyzed reactions, factors that affect the rate of an enzyme catalyzed reaction. Mechanism of enzyme catalysis. Regulation of enzyme activities. Allosteric enzymes, isozymes, multienzymes, importance of enzymology in medicine.

#### **Carbohydrate Metabolism.**

Glycogen metabolism - Glycogen synthesis (Glycogenesis), glycogen degradation (glycogenolysis). Glycolysis, regulation of glycolysis. Glyconeogenesis, pentose phosphate pathway, TCA cycle, Glyoxylate cycle, metabolism of fructose, mannose, galactose. Electron transport chain (energy metabolism), Bioenergetics, metabolic rate.

#### **Lipid Metabolism**

Oxidation and biosynthesis of fatty acids, biosynthesis and degradation of acylglycerols, phospholipids.

#### **Lipid Metabolism**

Essential fatty acids and eicosanoids. Clinical applications of eicosanoids and glycolipids. Cholesterol metabolism, steroids, ketosis. Lipoproteins and Sphingolipids in Health and Diseases.

Lipid storage diseases and their inheritance patterns, sulphatides, globosides, gangliosides and sphingolipids.

#### **Protein/Amino Acid metabolism**

Amino acid biosynthesis and catabolism, urea cycle, ketogenic and glycolytic amino acids. Creatinine and creatinine metabolism. Biosynthesis of proteins, inhibitors of protein biosynthesis.

#### **Nucleic Acid metabolism**

Biosynthesis of purine and pyrimidine nucleotides, catabolism of purine, and pyrimidine nucleotides , metabolic disorders of purine metabolism. Genome structure

and organization. Replication and Transcription of DNA, Repair of DNA, mutation, Abnormalities in Nucleic acid metabolism. xeroderma pigmentosum and skin cancer.

### **300 LEVEL MEDICINE THIRD SEMESTER**

#### **BCH 311: Nutritional Biochemistry**

Principles of nutrition, Nutritional requirements and disorder of the three major classes of food. Vitamins and minerals in clinical practice. Kwashiorkor and marasmus. Nutritional and biochemical basis of the diseases.

Principles of management in clinical practice. Nutritional value of local foodstuffs in the management of diseases.

Structure and function of the water-soluble vitamins, structure and function of lipid-soluble vitamins, characteristics of deficiency symptoms. Coenzyme, structure and functions, minerals – macroelements and microelement.

#### **BCH 312: Special Topics in Biochemistry**

##### **Biochemistry of Hormones and Prostaglandins**

Biochemical aspects of endocrinology, hormones, structures and functions. Molecular mechanisms of action of steroids, thyroid and polypeptide hormones. Hormonal deficiency diseases and their detection, methods of hormone assays. Prostaglandins.

##### **Immunochemistry**

Molecular mechanism of immune reactions. structure and functions of immunoglobulins. Antigen-antibody interactions. Mechanism of nerve transmission. Immunological laboratory methods.

##### **Neurobiochemistry**

Properties of neurotransmitters. Properties of synapses. Degradation of some selected neurotransmitters. Ion-channels in the brain.

##### **Xenobiochemistry and metabolism of drugs**

Phase I and II reactions. Cytochrome P450 system. Biotransformation of selected exogenous molecules, phenacetin, phenobarbitol. Benzo (a) pyrene. Cocaine, alcohol (ethanol).

Biotransformation of selected endogenous molecules, steroid, Heme and induction of microsomal enzymes.

Drug resistance: Types, origin. Drug resistance or factors affecting drug efficacy, examples of drug resistance to some diseases.

##### **Forensic Biochemistry**

Diagnostic enzymes. Pathological urines. Cancer and chemotherapy. Abnormal haemoglobins. Collection, preservation and biochemical analysis of materials of forensic interest. The public analyst in forensic practice.

### **Biochemistry of blood and other body fluids**

Components of blood and functions. Homeostasis and thrombosis, types of thrombi, pathway for the formation of thrombi Blood clotting pathway, red and white blood cells, and blood group system. Porphyrins, synthesis and degradation of Heme.

### **In-born Errors of metabolism :Molecular basis of metabolic diseases**

Identifying precise biochemical abnormalities that leads to the development of disease. Case of disease from a biochemical perspectives and to emphasize that diseases result from changes of either the structures, functions or amount of certain molecules. Major classes of genetic diseases. Methods of isolating disease genes. Treatment of some genetic diseases. In-born error of amino acid metabolism, lipid metabolism and of glycogen metabolism, biochemical derangement in G-6-PD deficiency, sickle cell anemia.

### **Biochemistry of body organs**

Biochemistry of muscles, the ultra structure of skeletal muscle, thick and thin filament & their proteins. Actomyosin complex. Mechanism of contraction, role G-protein,  $Ca^{2+}$  ion in regulation of muscle contraction. Source of energy for contraction. Biochemistry of vision.

**DEPARTMENT OF PHYSIOLOGY  
SCHOOL OF BASIC MEDICAL SCIENCES  
OBA OKUNADE SIJUADE COLLEGE OF HEALTH SCIENCES**

**Year One (100 Level)**

**First Semester**

S/ N	COURSE CODE	COURSE TITLE	CREDIT UNIT	STATUS
1	BOT111	Diversity of Plant	3	Compulsory
2	ZOO111	Introductory Zoology I	3	Compulsory
3	CHM111	General Physical Chemistry	3	Compulsory
4	CHM112	General Organic Chemistry I	3	Compulsory
5	PHY111	Mechanics, Principles Of Matter	2	Compulsory
6	PHY 112	General Physics	2	Compulsory
7	PHY 113	Thermal Physics	2	Compulsory
8	GST 111	Communication in English I	2	Compulsory
9	GST 112	Logic Philosophy & Human Existence	2	Compulsory
10	GST113	Nigerian Peoples And Culture	2	Compulsory
<b>TOTAL SEMESTER CREDIT UNIT</b>			<b>24</b>	

**Second Semester**

S/ N	COURSE CODE	COURSE TITLE	CREDIT UNIT	STATUS
1	BOT121	Plant Structure & Function	3	Compulsory
2	ZOO121	Functional Zoology II	3	Compulsory
3	CHM121	General Inorganic Chemistry I	3	Compulsory
4	CHM 122	General Laboratory Chemistry	2	Compulsory
5	CHM123	General Organic Chemistry Ii	3	Compulsory
6	PHY100	Practical Physics	1	Compulsory
7	PHY121	Electromagnetism I	2	Compulsory
8	PHY122	Modern Physics I	2	Compulsory
9	PHY123	Vibration, Waves & Optics	2	Compulsory
10	GST121	Use Of Library Studies, Skills & Info Technology	2	Compulsory
11	GST122	Communication in English II	2	Compulsory
12	GST123	Communication in French	2	Compulsory
<b>TOTAL SEMESTER CREDIT UNIT</b>			<b>27</b>	
<b>TOTAL SESSIONAL CREDIT UNIT</b>			<b>51</b>	

**Year Two (200 Level)****First Semester**

S/N	COURSE CODE	COURSE TITLE	CREDIT UNIT	STATUS
1	PHS211	Introductory Physiology	2	Compulsory
2	PHS212	Blood and Body Fluids	3	Compulsory
3	PHS213	Cardiovascular System	3	Compulsory
4	GST 211	History & Philosophy Of Science	2	Compulsory
5	ANA211	Gross Anatomy	3	Required
6	ANA212	General Histology	2	Required
7	ANA213	General Embryology	2	Required
8	BCH211	Introduction to Chemistry of Biochemical Compounds	2	Required
9	CHM211	Basic Organic Chemistry	3	Required
10	BIO211	Genetics	3	Elective
		<b>TOTAL SEMESTER CREDIT UNIT</b>	<b>25</b>	
		<b>CUMULATIVE CREDIT UNIT</b>	<b>76</b>	

**Second Semester**

S/N	COURSE CODE	COURSE TITLE	CREDIT UNIT	
1	PHS221	Renal Physiology, Skin & Temperature Regulation	3	Compulsory
2	PHS222	Respiratory System	3	Compulsory
3	PHS223	Neuroscience I	2	Compulsory
4	GST 221	Peace Studies And Conflict Resolution	2	Compulsory
5	ANA221	Gross Anatomy of Thorax and Abdomen	3	Required
6	ANA222	Systemic Histology	3	Required
7	ANA223	Systemic Embryology	3	Required
8	BCH 222	Carbohydrate Chemistry And Metabolism	2	Required
9	EPS 221	Entrepreneurial Studies	2	Required
10	CSP221	Community Service	0	Required
11	ZOO 222	Animal Physiology	2	Elective
		<b>TOTAL SEMESTER CREDIT UNIT</b>	<b>25</b>	
		<b>TOTAL SESSIONAL CREDIT UNIT</b>	<b>50</b>	
		<b>CUMULATIVE CREDIT UNIT</b>	<b>101</b>	

**Year Three (300 Level)****First Semester**

S/N	COURSE CODE	COURSE TITLE	CREDIT UNIT	STATUS
1	PHS311	Digestive/Gastrointestinal Physiology	3	Compulsory
2	PHS312	Endocrine and Reproduction	3	Compulsory
3	PHS 313	Neuroscience II and Special Senses	3	Compulsory
4	PHS321	Selected Topics in Neurophysiology	3	Required

5	ANA311	Pelvic and Perineum	3	Required
6	ANA312	Systemic Histology	3	Required
7	ANA314	Neuroanatomy	3	Required
8	BCH 313	Lipid Chemistry and Metabolism	2	Required
9	BCH313	Protein, Nucleotide Chemistry & Metabolism	3	Required
10	BCH316	Enzymology	2	Required
11	PCO312	General Principles Of Pharmacology	2	Required
12	BIO310	Biostatistics	3	Required
13	EPS311	Introduction To Entrepreneurial Skills	2	Required
		<b>TOTAL SEMESTER CREDIT UNIT</b>	<b>35</b>	
		<b>CUMULATIVE CREDIT UNIT</b>	<b>136</b>	

S/ N	COURSE CODE	COURSE TITLE	CREDIT UNIT	STATUS
1	PHS 300	INDUSTRIAL ATTACHMENT	6	Required
		<b>TOTAL SEMESTER CREDIT UNIT</b>	<b>6</b>	
		<b>TOTAL SESSIONAL CREDIT UNIT</b>	<b>41</b>	
		<b>CUMULATIVE CREDIT UNIT</b>	<b>142</b>	

#### Year Four (400 Level)

##### First Semester

S/ N	COURSE CODE	COURSE TITLE	CREDIT UNIT	STATUS
1	PHS322	Laboratory Teaching and Instrumentation	3	Required
2	PHS323	Animal Experimentation	3	Compulsory
3	PHS411	Neuroendocrinology	2	Required
4	PHS412	Nutrition and Metabolism	2	Required
5	PHS413	Environmental Physiology	2	Required
6	PHS 414	Research Methodology and Statistics	2	Required
7	PHS415	Seminar Presentation	2	Required
		<b>TOTAL SEMESTER CREDIT UNIT</b>	<b>16</b>	
		<b>CUMULATIVE CREDIT UNIT</b>	<b>158</b>	

##### Second Semester

S/ N	COURSE CODE	COURSE TITLE	CREDIT UNIT	STATUS
1	PHS491	Project Seminar	1	Compulsory
2	PHS 492	Project	6	Compulsory
3	PHS 493	Comprehensive Examination	4	Compulsory
4	PHS 421	Special Topics	2	Required
5	PHY327	Biophysics	3	Required
		<b>TOTAL SEMESTER CREDIT UNIT</b>	<b>16</b>	
		<b>TOTAL SESSIONAL CREDIT UNIT</b>	<b>32</b>	
		<b>CUMMULATIVE CREDIT UNIT</b>	<b>174</b>	







Nonparametric techniques, Relative Risk and Measures of strength of Association.  
Computers: An overview.

## **SECOND SEMESTER**

**PHS 300 Industrial Training**

**6 units (C)**

## **400 LEVEL**

### **FIRST SEMESTER**

**PHS 322 Laboratory Teaching and instrumentation 3 units (R)**

Opportunity for students to review the physiological concept of systems taught and understand them so thoroughly as to enable them demonstrate the concept using available equipment to medical or more junior Physiology Students.

**PHS 323 Animal Experimentation 3 units (R)**

Laboratory animal handling. *In vivo* and *in vitro* preparations. Choice of animals and/or isolated tissue. Introduction to laboratory methods and design in physiological experimentation. Biological assay techniques.

**PHS 411 Neuroendocrinology 2 units (C)**

Historical origins of a Neuro-endocrine connection. A review of the physiologic anatomy of hypothalamo-pituitary link. Current concepts of channels of communication between the hypothalamus and the pituitary. Hypothalamic neurosecretions. The “master gland” of the endocrine system. Pituitary secretions and their current concepts of the servomechanisms between the hypothalamus, the pituitary and other endocrine organs.

**PHS 412 Nutrition and Metabolism 2 units (R)**

Principles of nutrition, vitamins and minerals, energy metabolism and metabolic rate, calorie deficiency states. Current concepts on the control of energy balance. Brief review of intermediary metabolism of specific organs: brain, renal, pulmonary and cardiac metabolism. Abnormal metabolism: Diabetes mellitus, specific in-born errors of metabolism. Malnutrition.

**PHS 413 Environmental Physiology 2 units (R)**

Global warming/Physiologic response, pollution: air, water and noise; Adverse weather conditions: heat stroke, frostbite, Human response to environmental factor- virus, bacteria, etc, Transport stress- motion sickness, sea sickness, weightlessness, jetlag.

**PHS 414 Research Methodology and Statistics 2 units (R)**

What to expect in introduction of research work, Literature review and literature search, Sampling methods in physiological work, Ethical considerations, Test of probability, statistical analysis and interpretation of results, Discussion of research work, Referencing styles.

**PHS 415 Seminar 2 units (R)**  
Literature review of different areas of physiology presented at seminars.

**SECOND SEMESTER**

**PHS 491 Project Seminar 1 unit (C)**  
**PHS 492 Project 6 units (C)**

Independent research finding undertaken by students into selected area of physiology. Students will be required to carry out research on a particular topic and produce a written report at the end of the session. Students will be examined orally on the project undertaken.

**PHS493 Comprehensive examination 4 units (C)**  
Examination on general and specific areas in physiology.

**PHS 421 Special Topics 2 units (R)**  
Aerospace physiology. Exercise Physiology. Comparative Physiology. Neonatal and Geriatric Physiology.

**PHY327 Biophysics 3 units (R)**  
Biomechanics. Elastic and electrical properties of bone and its component tissues. Bone fracture, friction and lubrication. Diffusion, transport across membranes. Biophysical techniques. X-ray diffraction, microscopy, spectroscopy, electron spin, resonance and nuclear magnetic resonance. Ultrasonic: production and physical effects, pulse and continuous wave ultrasound. Biological and industrial applications. Power measurements.

**SCHOOL OF MEDICAL LABORATORY SCIENCE  
BACHELOR OF MEDICAL LABORATORY SCIENCE (BMLS)  
PROGRAMME**

**LIST OF STAFF**

**ACADEMIC STAFF**

<b>NAME OF STAFF</b>	<b>QUALIFICATIONS</b>	<b>RANK/ DESIGNATION</b>	<b>STATUS</b>
Prof. M. I. Agba	B.Sc., M.Sc., Ph.D., Dip. Vet. Sc. FBSN,	Professor	FT
Dr. J. S. Josiah	B.Sc., M.Sc., PhD	Associate Professor	FT
Dr. K. A. Digban	M.Sc., MPH, Ph.D., FMLSCN	Ag. HOD/ Senior Lecturer	FT
Dr. H. O. Okpala	M.Sc., Ph.D., FMLSCN	Senior Lecturer	FT
Dr. D. J. Jemikalajah	AMLSCN., M.Sc., Ph.D.,	Senior Lecturer	PT
Dr. O. F. Emelike	M.Sc., Ph.D., FMLSCN	Senior Lecturer	PT
Dr. B. O. Akinshipe	B.Sc., M.Sc., Ph.D., AMLSCN.	Senior Lecturer	FT
Dr. S.C.O Nwangwu	B.Sc., M.Sc., PhD	Senior Lecturer	FT
Dr. Ogundige O. P.	B.Sc., M.Sc., PhD	Senior Lecturer	FT
Dr. K. Oimage	B.Sc., M.Sc., PhD	Lecturer I	FT
Dr. K. O. Ajeigbe	B.Sc., M.Sc., M.Phil., PhD	Lecturer I	FT
Dr (Mrs). H. K. Njoya	B.Sc., M.Sc., PhD	Lecturer I	FT
Dr. (Mrs). G. Erifeta	B.Sc., M.Sc., PhD	Lecturer I	FT
Mr. K. E. Aghatise	AMLSCN., M.Sc.,	Lecturer I	FT
Mrs. U. Okwonu	B.Sc., M.Sc	Lecturer I	FT
Mr T. Eramah	BMLS., M.Sc., AMLSCN	Lecturer II	FT
Miss. Imarhiage Ivie	BMLS., AMLSCN	Assistant Lecturer	FT

**LABORATORY STAFF**

<b>NAME OF STAFF</b>	<b>QUALIFICATIONS</b>	<b>RANK/ DESIGNATION</b>	<b>STATUS</b>
Mr. M. Olley	M.Sc., AMLSCN	Principal MLS	FT
Mr. C. O.Osaiyuwu	M.Sc., AMLSCN	Senior MLS	FT
Mr. F. A. Ehiaghe	PGDE, M.Sc., BMLS, AMLSCN	Med. Lab. Scientist I	FT
Mr. U. Igiebor	BMLS, AMLSCN	Med. Lab. Scientist I	FT
Mr. I. Iyare	BMLS, AMLSCN	Med. Lab. Scientist I	FT
Mr. E. O. Osakue	PGDE, MHPM, BMLS, AMLSCN	Med. Lab. Scientist I	FT
Mrs. C. B. Enitan	CGHP, MLT, Diploma in Comp. Sc.	Med. Lab. Technician	FT

**SECRETARIAT STAFF**

<b>NAME OF STAFF</b>	<b>QUALIFICATIONS OBTAINED</b>	<b>RANK/DESIGNATION</b>	<b>STATUS</b>
Mrs. S. Ikolo	M.Sc., B.Sc.	College Officer	FT
Mr. B. Adeyemo	SSCE with type writing	Secretary	FT

## **Foreword**

I welcome you all to our department of Medical Laboratory Science which was established in September, 2005 in the Oba Okunade Sijuwade College of Health Sciences. The department undertakes programmes for Bachelor of Medical Laboratory Science (BMLS) in Medical Microbiology, Chemical Pathology, Histopathology, Haematology and Blood Transfusion Science.

This handbook provides detailed information about the department of Medical Laboratory Science in line with the mission of Igbinedion University, Okada. The programmes have been expanded and updated to facilitate easier studying and understanding.

You must endeavour to be familiar with all the rules and regulations of the department and University so as to avoid problems. Please be reminded that the University will confer degree only on those students who are found worthy in character and learning, as such, avoid any misconducts or social vices tantamount to suspension or expulsion from the programme and University.

Thank you.

Dr. K. A. Digban

Ag. Head: Department of Medical Laboratory Science

## **INTRODUCTION**

In line with the mission of the University which is to develop the human mind to be creative, innovative, research oriented, competent in areas of specialization, knowledgeable in entrepreneurship and dedicated to service, the Medical Laboratory Science Department offers courses leading to the award of bachelor of Medical Laboratory Science (BMLS) Honours degree.

Medical Laboratory Science is a promising and dynamic profession that is designed to provide broad bases of fundamental scientific knowledge and its application such that the graduates are well prepared to meet with changing needs of modern scientific knowledge considering their pivotal role in the Health care delivery system. The training exposes students to application of Medical Laboratory Science in key areas such as clinical diagnostic services, food and beverages, pharmaceutical industries, Breweries, utility departments e.g. Water Corporation, academic and research institutions.

The training also exposes students to Basic Medical Sciences and to core areas like Clinical Chemistry, Haematology/Blood Transfusion Science, Medical Microbiology/Parasitology, Histopathology, Immunology/Immunochemistry, as well as Laboratory Management and Instrumentation. Mode of admission is by UME (5- year program) and by direct entry (4-year program). Students accepted for the BMLS program are expected to register with the Medical Laboratory Science Council of Nigeria (MLSCN) and be indexed as student Members soon after admission into the program. On successful completion of the BMLS programme, induction into the profession and mandatory one year internship preceding NYSC program, graduates are registered as Associate of Medical Laboratory Science Council of Nigeria (AMLSCN) with the professional body, MLSCN, subject to meeting its other requirements.

## **PHILOSOPHY OF THE PROGRAMME**

The Bachelor of Medical Laboratory Science degree is designed to:

- a. Highlight the central role that laboratory investigation of components of biological fluids, blood, urine, cerebrospinal fluid, secretions, excretions, tissues or organs, play in the diagnosis, management and prognosis of disease states.
- b. Have sufficient management ability to play a leadership role in the training and practice of Medical Laboratory Science.
- c. Enable students acquire the required expertise to produce biological and diagnostic reagents as well as fabricate equipment, repair or even modify existing ones and update old techniques or invent new diagnostic procedures.

## **PROGRAMME OBJECTIVES**

1. To uphold the academic standards stipulated by the Igbinedion University, Okada.
2. To organize and offer courses and other related studies to undergraduate students as may be prescribed by the Nigeria University Commission (NUC), Medical Laboratory Science Council of Nigeria (MLSCN) and Senate of the University, leading to the award of the degree of Bachelor of Medical Laboratory Science (BMLS).
3. To assist students in learning to solve problems by exposing them to problem situations and by solving them in research projects.

4. To train and develop undergraduate students to fill the manpower needs of the country in Medical Laboratory Science.
5. To graduate professional Medical Laboratory Scientists capable of providing high quality laboratory services to individuals, families and communities of diverse background and in a variety of social and cultural settings nationally and globally.
6. To produce Medical Laboratory Scientists who satisfy international standards and who can undertake further training towards specialization.
7. To train research scientists who are able to make researches in the various disciplines of Medical Laboratory Science.
8. Contribute to the improvement of Medical Laboratory Science practice by participating in interdisciplinary research, utilizing the research process and publishing research findings in Medical Laboratory Science practice situations.

#### **ADMISSION REQUIREMENTS**

(a) Entry into 100 Level

Candidates must also satisfy the minimum University requirements for admission and are therefore to obtain credits in English Language, Chemistry, Biology, Physics and Mathematics in SSCE or its equivalent in not more than two sittings with a relevant pass in the Joint Admission matriculation Examination (JAMB) and in the post University Matriculation Examination (Post-UME).

(b) Entry into 200 Level

- (i) Candidates holding three GCE A/L in Biology, Chemistry and Physics plus O/L Credits in five subjects – Mathematics, Physics, Chemistry, Biology and English Language.
- (ii) Candidates who transfer from other faculties of the University with relevant prerequisites.
- (iii) B.Sc. degree in relevant science disciplines like Zoology, Microbiology, Anatomy, Physiology, Biochemistry, etc; as approved by the Senate.
- (iv) HND in relevant fields as approved by the Senate.
- (v) Inter and Intra- Senate University transfer in accordance to Igbinedion University admissions.

#### **COURSE DURATION**

The bachelor of Medical Laboratory Science degree programme shall run for five (5) years for Joint Admission Matriculation Examination candidates and four (4) years for direct entry candidates.

#### **STUDENT INDEXING WITH MEDICAL LABORATORY SCIENCE COUNCIL OF NIGERIA (MLSCN)**

Every student must be indexed by the Medical Laboratory Science Council of Nigeria (MLSCN) within the first SIX weeks of the first semester of 100 level and obtain an index number which shall be used alongside with University matriculation number during professional examinations.

## **REGISTRATION OF COURSES**

At the beginning of the session, the students must register for all the course specified for respective session.

**NOTE:** The 100 level students will spend their first year in the Faculties of Applied and Natural Sciences. The students will subsequently move along until 300 levels when they will be given special attention in the department.

## **STRATEGIES OF IMPLEMENTING THE BMLS PROGRAM**

### **Programme Structure**

Programme implementation consists of theory and practical with courses organized into units. Practical classes are in the form of compulsory laboratory posting under the supervision of qualified Medical Laboratory Scientists. Departmental courses are prefixed with the letter MLS. Courses will comprise core/compulsory courses, which must be taken and passed, general studies, computer and entrepreneurship are elective courses which are taken to enrich and increase student's total units in line with the university regulation. Students shall be required to register for not less than 15 credits units and not more than 27 units per semester. Permission can however be obtained from senate to carry more credits units in the final year. Each semester is made up of periods of classroom teaching, laboratory teaching and practical. The programme curriculum is both modular and integrated and implemented as such. Students must fulfill the requirements at the lower level before they can proceed to the higher level. Each semester from 300 Level to 500 level is made up of periods of classroom teaching and laboratory posting in the hospital laboratories. All laboratory postings are compulsory and projects are integral components of the programme.

### **100 Level**

This is the preliminary year of the students, who comes in through UME, courses taken are in Natural sciences (physics, chemistry, biology and mathematics) and general studies (GST). Students are to submit photocopies of their credentials and pay for WAEC verification. This is a requirement of the MLSCN for indexing before the end of the semester.

### **200 Level**

Students take courses in Basic Medical Sciences (Anatomy, Physiology and Biochemistry) and in preparation for 300 level, students also take departmental courses: Introduction to Medical Laboratory Science I and II.

### **300 Level**

Students take mainly MLS courses as in the curriculum, in addition to Theory and Practice of Entrepreneurship, Medical Physics and Intermediary metabolism. There is supervised laboratory posting during the semester.

### **400 Level**

Students take courses in advanced MLS courses as in the curriculum. They also go for intensive supervised laboratory posting in readiness for the First Professional Examination.

### **500 Level**

Students take general courses in first semester, these include laboratory posting in the area of specialization, seminar, research methodology, Cytogenetic, Genetics and molecular biology. Courses peculiar to area of specialization are taken in second semester, as well as research project and second professional examination.



### **EVALUATION OF STUDENTS**

Each MLS course taught in the BMLS programme at the University may be evaluated for grading with the use of one or several of the following criteria:

- i. Written examinations which include problem solving:
  - (a) Essay: Six (6) questions to attempt four (4). Its overall contribution shall be 40% of each course examination.
  - (b) Multiple choice questions (MCQ), 40 questions (5 parts) to attempt all. Its overall contribution shall be 30% of each course examination.
- ii. Laboratory presentations or demonstrations to the class of exercises/techniques.
- iii. Laboratory Reports.
- iv. Cases studies/Laboratory logbook.
- v. Continuous assessment tests.

No student(s) shall be allowed into the examination venue, if he/she has not fulfilled the mandatory posting.

### **CONTINUOUS ASSESSMENT**

Continuous Assessment (CA) during the Semester shall form part of the end of course grade. Its overall contribution shall be 30% of each course examination.

### **PERFORMANCE GRADE IN EACH COURSE**

Above	-	70%	-	A	-	5 grade point
60	-	69%	-	B	-	4 grade point
50	-	59%	-	C	-	3 grade point
45	-	49%	-	D	-	2 grade point
40	-	44%	-	E	-	1 grade point
Less than		40%	-	F	-	0 grade point

### **END OF THE YEAR OVERALL ASSESSMENT**

The pass mark for 100, 200 and 300 level students in the department shall be 45%, while 400 and 500 level students pass mark shall be 50%.

A student shall be deemed to have passed his/her examinations if he/she passes in all the compulsory and required courses he/she registered for during the academic year. No 400 or 500 level student is expected to have any carryover course at the end of academic session. Such student shall be made to repeat the class according to Medical Laboratory Science Council of Nigeria rules and regulations.

### **A SUMMARY OF THE CREDIT LOAD FOR THE PROGRAMME**

	<b>CREDIT LOAD</b>		<b>TOTAL CREDIT LOAD</b>
<b>LEVEL</b>			
100			52
200			48
300			40
400			41
500	Chem. Pathology	39	220
	OR		
	Haem./BTS	39	220
	OR		
	Histopathology	39	220
	OR		

**ATTENDANCE POLICIES**

1. Attendance is compulsory and absence from class and/or laboratories will affect student’s final grade. Missed laboratory work and/or examinations must be completed.
2. Since sample procurement is difficult, laboratory absence are particularly difficult to make up 75% attendance is a prerequisite to sit for exams. Absence from laboratory posting is tantamount to carry over of posting. Students are therefore advised not to miss any laboratory session.
3. Protracted illness (three consecutive days or more) should be reported to the Head of Department promptly.
4. Students shall continue their laboratory posting during holidays and this shall serve as their industrial attachment.
5. Final year students are to take compulsory call-duty in their respective discipline. They are to be attached to Med. Lab. Scientist on Call-duty. This shall be graded as part of the 75% attendance laboratory posting.

**REQUIREMENT FOR PROCEEDING IN THE PROGRAMME**

A student who obtains a Cumulative Grade Point Average (CGPA) of 1.50 or more at the end of the session will proceed to the next level of programme. A student who obtains CGPA of less than 1.50 at the end of the session will be on probation for the following session to enable the student improve on the CGPA. A student on probation during the session who obtains a CGPA of less than 1.50 during the session MUST withdraw from the program. Any student who has any carryover at the end of 300 and 400 level sessions shall not proceed to the next level.

**GRADUATION REQUIREMENTS**

Deferred entry requirement: e.g credit pass in English at SSCE or GCE O/L

**THERE ARE NO DEFERRED ENTRY REQUIREMENTS**

- i. Minimum number of credit hours: 221
- ii. Minimum number of years of the course: 5 years (UME) and 4 years (DE)
- iii. Minimum CGPA 1.50

A Grade Point Average (GPA) shall be calculated for each level of course.

The student’s final grade forms the sum of the weighted Grade Point.

Average for each level of the courses is as follows:

<b>5 year Degree Programme</b>	<b>4 year Degree Programme</b>
100 level 20%	200 level 25%
200 level 20%	300 level 25%
300 level 20%	400 level 25%
400 level 20%	500 level 25%
500 level 20%	

**COMPUTATION OF GRADE POINT AVERAGE (GPA)**

To compute a grade point average (GPA) for a candidate, his/her total aggregate point for the session will be divided by the total credit load for the session .

N.B.

- (a) Core courses are mandatory courses, which all students must take and pass, before they can graduate.
- (b) Elective courses are courses, which students must take and pass

### **GRADING SYSTEM ON GRADUATION**

The class of degree is determined by the final grade as follows:

First Class Honours:	4.50-5.00
Second Class Upper Division:	3.50-4.49
Second Class Lower Division:	2.40-3.49
Third Class:	1.50-2.39
Fail	<1.50

### **PROFESSIONAL EXAMINATIONS**

Students are required to satisfy examiners in professional examinations to be moderated by external examiners in the various Medical Laboratory Science disciplines which will be observed by a representative of Medical Laboratory Science Council of Nigeria. The examinations shall be in two parts viz:

- First Professional Examinations to be held last September of the fourth year shall consists of two parts: Paper I and II which consists of 50 practical related multiple choice questions (10 from each of the 5 disciplines), practical examination in Medical Microbiology, Parasitology, Haematology, Blood Transfusion Science, Histopathology, Clinical Chemical. Candidate will be required to attempt question in Parasitology, and in any 4 of the other core subjects. Questions shall include triple chase spot questions – 3 hours.
- Viva voci (Oral) examination  
A pass in this examination is a prerequisite for the 500 level.
- Final Professional Examination to be held at the end of 2<sup>nd</sup> Semester of final graduating year which shall consist of 50 practical related multiple choice questions in areas of specialty, practical and oral examinations in the specialty or discipline of the candidate. Pass mark in both examinations is 50%, i.e C grade point.

**Re-sit examinations may be conducted not later than 3 months after the main examination.**

### **EXAMINATION MISCONDUCT AND SANCTION**

The following sanctions shall apply to cases of examination misconduct as stipulated below:

S/N	MISCONDUCT	SANCTION
1	Proven cases of fore-knowledge of Examination Questions (Leakage)	Expulsion of all involved.
2	Coming into Examination Hall with extraneous materials	Rustication for a minimum period of 4 Semester or Expulsion if fore-knowledge of Questions is proven.
3	Writing on any materials in the Examination Hall, other than the Answer Booklet.	Letter of warning
4	Non-production of identify card or authorized letter of identification before and during examination	To leave the Examination Hall immediately

5	Any form of unauthorized communication between and among students during examination	Rustication for a minimum period of one (1) academic session for first offender and expulsion from the University for any such subsequent offence by the same students
6	Impersonation at Examination	Expulsion of all involved
7	Attempt to destroy or actually destroying materials of proof of cheating	Rustication for 2 semesters plus penalty for the original offence
8	Refusal to obey invigilator's instructions such as (iii). Writing after the Examination has been stopped, (iv) Non-compliance with the invigilator's sitting arrangement	(iii) Letter of Warning (iv) To leave the hall and carryover the course
9	Refusal to submit Answer scripts (used and unused) at the close of examination	Rustication for a minimum period of two (2) semester.
10	Smuggling of Question papers and Answer Booklets out of the Hall for help and returning with Answer scripts.	Expulsion
11	Leaving Examination Hall without permission	To carry over the course and letter of warning
12	Unruly behaviour in the examination Hall, such as smoking, drinking of liquor, noise etc	Verbal warning by Invigilator. If unruly behaviour persists, to leave the Hall and carry over the course.
13	Proven cases of physical assault on Invigilator/Attendant	Expulsion
14	Failure to appear before Misconduct panel	Guilty as charge. Indefinite suspension pending appearance before the panel
15	Any students with three (3) letters of warning	Rustication for a minimum period of one (1) session
16	Any other cases of examination malpractice not specified	Punishment as appropriate

#### **WITHDRAWAL FROM DEPARTMENT**

- (A) Students who accumulate 11-21 credits in the session are either to seek inter faculty/department transfer or remain in the department on probation.
- (B) Students who fail to accumulate less than 11 credits at the end of the second semester examination will be asked to withdraw from the department.
- (C) Any student who has previously transferred from another faculty/department or gone on probation and still fails to obtain 22 credits after the sessional examination shall withdraw from the department.<sup>2</sup>
- (D) The Senate (if satisfactory reason are given) may grant a student temporary withdrawal from the school. The student could be allowed to register and take the examination in

the required courses at the next available opportunity provided; he/she does not exceed the maximum number of years required for the degree.

### **DRESS CODE**

**MALE:** A good pair of trousers (not jeans) with neat shirt, a matching tie and a pair of shoe.

**FEMALE:** Corporate gown with sleeve or skirt (not jeans) below the knee with sleeved shirt/blouse and a pair of shoes.

Student professional Lapel pin should be worn always on their dresses/shirt. Wearing of Laboratory Coat is compulsory for all clinical postings and practical classes.

### **COURSE CODE SYSTEM**

Course code contains an abbreviated letter code of three (3) letters and three (3) digits.

MLS – is a prefix that indicates the department.

The first digit represents the level of study. For 100 – 400 levels, the second digit denotes the semester while for 500 level; the second digit denotes specialty area. The third digit denotes the topic/stress area.

### **COURSE OUTLINE**

#### **FIRST SEMESTER**

<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>CREDIT LOAD</b>
CHM 111	Physical Chemistry	2
CHM 112	Organic Chemistry	3
PHY 111	Mechanics and Properties of Matter	2
PHY 112	General Physics	2
PHY 113	Thermal Physics	2
BOT 111	Introduction to Plant Science	2
ZOO 111	Introductory Zoology	2
GST 111	Communication in English I	2
GST 112	Philosophy, Ethics, Logic and Human Existence	2
CSC 110	Introduction to computer	3
MTH 111	Algebra And Trigonometry	3
GST 113	Nigerian Peoples & Culture	2
<b>TOTAL</b>		<b>27</b>

#### **SECOND SEMESTER**

<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>CREDIT LOAD</b>
CHM 121	Inorganic Chemistry	3
CHM 122	Chemistry Practicals	2
CHM 123	Organic Chemistry	3
PHY 121	Electromagnetism	2
PHY 122	Modern Physics	2
PHY 123	Waves, Vibration & Optics	3
BOT 121	Plant Structure and Function	2
ZOO 122	Functional Zoology	2

GST 121	Use of Library, ICT and Study Skills	2	
GST 122	Communication in English II	2	
GST 123	Communication in French	2	
	<b>TOTAL</b>	<b>25</b>	
TOTAL CREDIT LOAD FOR THE SESSION			<b>52</b>

## **200 LEVEL**

### **FIRST SEMESTER**

<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>CREDIT LOAD</b>	
MLS 211	Introduction to Medical Laboratory Science I	2	
ANT 210	General Anatomy, Gross Anatomy of upper limb	2	
ANT 211	Gross Anatomy of Thorax	2	
ANT 212	General Histology/Cytology	2	
ANT 213	General Embryology	3	
PHS 211	Introductory & General Physiology	2	
PHS 212	Blood and body fluid Physiology	2	
PHS 213	Cardiovascular system	2	
BCH 210	Introductory Biochemistry	2	
GNS 211	History and Philosophy of Science	2	
	<b>TOTAL</b>	<b>21</b>	

### **200 LEVEL: SECOND SEMESTER**

<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>CREDIT LOAD</b>	
MLS 222	Introduction to Medical Laboratory Science II	2	
ANT 220	Gross Anatomy of Abdomen, Pelvis and Perineum	3	
ANT 222	Systemic Histology I	3	
ANT 223	Systemic Embryology I	3	
BCH 220	Carbohydrate and Lipid Metabolism	3	
BCH 223	Amino Acid and Protein Metabolism	2	
BCH 225	Protein, Chemistry and Enzymology	2	
PHS 221	Body fluid and Temperature Regulation	2	
PHS 222	Gastrointestinal Physiology	2	
PHS 223	Endocrinology & Reproduction	2	
PHS 224	Respiratory System	3	
	<b>TOTAL</b>	<b>27</b>	
TOTAL CREDIT LOAD FOR THE SESSION			<b>48</b>

**300 LEVEL****FIRST SEMESTER**

<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>CREDIT LOAD</b>
EPS 311	Introduction to Theory & Practice of Entrepreneurship	2
MLS 311	Medical Laboratory Science Ethics	2
MLS 312	Introduction to Medical Laboratory Science III	2
MLS 313	Medical Physics	3
MLS 314	Basic Clinical Chemistry	3
MLS 315	Basic Immunology	2
MLS 310	Laboratory posting I	3
BCH 310	Intermediary Metabolism	2
<b>TOTAL</b>		<b>19</b>

**300 LEVEL****SECOND SEMESTER**

<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>CREDIT LOAD</b>
MLS 320	Laboratory posting II	3
MLS 321	Introductory Microbiology	2
MLS 322	Laboratory Instrumentation & Techniques	3
MLS 323	Fundamental Blood Group Serology	3
MLS 323	Basic Haematology	3
MLS 324	Introductory Pharmacology	2
PCO 320	General Pathology (Basic Histopathology)	3
MLS 326	Laboratory Organisation & Supply Chain Management	2
<b>TOTAL</b>		<b>21</b>

TOTAL CREDIT LOAD FOR THE SESSION

**40****400 LEVEL****FIRST SEMESTER**

<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>CREDIT LOAD</b>
MLS 410	Laboratory posting III	3
MLS 411	Medical Parasitology & Entomology	2
MLS 412	Basic Medical Bacteriology & Mycology	3
MLS 413	Introduction to Haemoglobin, Haemoglobinopathy & myeloproliferation	3
MLS 414	Introduction to Blood Group	3

	System & Compatibility tests	
MLS 415	Analytical Chemistry	2
MLS 416	Introduction to Cytology	3
MLS 417	Nucleic Acid Biochemistry & Basic Concepts of Molecular Biology	2

**TOTAL            21**

**400 LEVEL**

**SECOND SEMESTER**

<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>CREDIT LOAD</b>
MLS 420	Laboratory Posting IV	3
MLS 421	Biostatistics	2
MLS 422	Virology	3
MLS 423	Introduction to Histopathology Techniques and Museum	3
MLS 424	Biomedical Engineering	2
MLS 425	Biotechnology & Bioinformatics	2
MLS 426	Counselling skills	2
MLS 427	Immunology/Immunochemistry	3
	<b>TOTAL</b>	<b>20</b>

TOTAL CREDIT LOAD FOR THE SESSION **41**  
FIRST PROFESSIONAL EXAMINATION- PRACTICAL AND VIVA

**500 LEVEL**

**CHEMICAL PATHOLOGY (SPECIALITY)**

**FIRST SEMESTER**

<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>CREDIT LOAD</b>
MLS 510	Laboratory Posting V	3
MLS 511	Seminar	2
MLS 512	Research Methodology	3
MLS 531	Carbohydrate, protein and Lipid Metabolism	3
MLS 532	Renal, liver, and Neurochemistry	3
MLS 533	Clinical Enzymology	3
MLS 534	Nutrition and Clinical Vitaminology	2
	<b>TOTAL</b>	<b>19</b>

**SECOND SEMESTER**

<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>CREDIT LOAD</b>
MLS 520	Laboratory Posting VI	3
MLS 521	Genetic & Molecular Biology	2
MLS 522	Project	6
MLS 535	Drug Monitoring, Toxicology & Inborn Error of	3



MLS 536	Metabolism Clinical & Reproductive Endocrinology	3	
MLS 537	Techniques in clinical Chemistry	3	
	<b>TOTAL</b>	<b>20</b>	
TOTAL CREDIT LOAD FOR THE SESSION			<b>39</b>
FINAL PROFESSIONAL EXAMINATION- PRACTICAL AND VIVA			

### 500 LEVEL

#### HAEMATOLOGY AND BLOOD TRANSFUSION SCIENCE (SPECIALITY)

##### FIRST SEMESTER

COURSE CODE	COURSE TITLE	CREDIT LOAD	
MLS 510	Laboratory Posting V	3	
MLS 511	Seminar	2	
MLS 512	Research Methodology	3	
MLS 513	Cytogenetics	2	
MLS 541	Haemopoiesis, Haemoglobin, Haemoglobinopathies & Myeloproliferations	3	
MLS 542	Blood Group Systems & Compatibility Tests	3	
MLS 543	Serology & Blood Transfusion Science	3	
	<b>TOTAL</b>	<b>19</b>	

##### SECOND SEMESTER

COURSE CODE	COURSE TITLE	CREDIT LOAD	
MLS 520	Laboratory Posting VI	3	
MLS 521	Genetics & Molecular Biology	2	
MLS 522	Project	6	
MLS 544	Advanced Haematological Techniques	3	
MLS 545	Advanced Blood Group	3	
MLS 546	Serology techniques	3	
	<b>TOTAL</b>	<b>20</b>	

TOTAL CREDIT LOAD FOR THE SESSION

### 500 LEVEL

#### HISTOPATHOLOGY (SPECIALITY)

##### FIRST SEMESTER

COURSE CODE	COURSE TITLE	CREDIT LOAD	
MLS 510	Laboratory Posting V	3	
MLS 511	Seminar	2	
MLS 512	Research Methodology	3	
MLS 513	Cytogenetics	2	
MLS 551	Fundamental Histopathology	3	

MLS 552	Systemic Histopathology	3
MLS 553	Histochemistry and Histological Techniques	3
<b>TOTAL</b>		<b>19</b>

## **SECOND SEMESTER**

<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>CREDIT LOAD</b>
MLS 520	Laboratory Posting VI	3
MLS 521	Genetics & Molecular Biology	2
MLS 522	Project	6
MLS 554	Medical Cytology	3
MLS 555	Embalment and Museum Techniques	3
MLS 556	Immunochemistry	3
MLS 557	Stains and staining	3
<b>TOTAL</b>		<b>20</b>

TOTAL CREDIT LOAD FOR THE SESSION  
FINAL PROFESSIONAL EXAMINATION- PRACTICAL AND VIVA

## **500 LEVEL**

### **MEDICAL MICROBIOLOGY (SPECIALITY)**

#### **FIRST SEMESTER**

<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>CREDIT LOAD</b>
MLS 510	Laboratory Posting V	3
MLS 511	Seminar	2
MLS 512	Research Methodology	3
MLS 561	Systemic Bacteriology	3
MLS 562	Advanced Entomology	3
MLS 563	Public Health Microbiology	2
MLS 564	Medical Mycology	3
<b>TOTAL</b>		<b>19</b>

#### **SECOND SEMESTER**

<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>CREDIT LOAD</b>
MLS 520	Laboratory Posting VI	3
MLS 521	Genetics & Molecular Biology	2
MLS 522	Project	6
MLS 565	Medical Virology	3
MLS 566	Pharmaceutical Microbiology & Microbial Genetics	3
MLS 567	Laboratory Techniques in Microbiology	3
<b>TOTAL</b>		<b>20</b>

TOTAL CREDIT LOAD FOR THE SESSION **39**  
FINAL PROFESSIONAL EXAMINATION- PRACTICAL AND VIVA

## **DESCRIPTION OF COURSES**

### **100 LEVEL COURSES**

#### **BOT 111: INTRODUCTION TO PLANT SCIENCE 2-0-3 (2 CREDITS)**

Diversity of living organisms; Life forms, mode of nutrition, size, shape, etc. Elements of Ecology and common features of living organisms; Nomenclature and classification. Plant cell, functions of organelles; Brief survey of viruses, bacteria, PPLO; General survey of plants in the five Kingdoms, highlight their life cycles and evolutionary relationship.

#### **ZOO 111: GENERAL INTRODUCTORY ZOOLOGY 2-0-3 (2 Credits)**

Historical background on origin of life; Theories accounting for origin of life; Animal family tree; Human population and growth; Man's impact on the biosphere- atmospheric climate, aquatic and terrestrial ecosystem. Biodiversity, faunal biodiversity. Invertebrata; General account of the Protozoa, Coelenterata, Platyhelminthes, Nematoda, Annelida, Mollusca, Arthropoda and Echinodermata. Vertebrata; Introduction to Protochordata – Hemichordata, Urochordata and Cephalochordata; Pisces, Amphibia, Reptalia, Aves, Mammalia. Mammalian anatomy; anatomy of *Rattus spp.*

#### **PHY 111: MECHANICS AND PROPERTIES OF MATTER 2-0-3 (2 Credits)**

Elements of statistics, vectors and scalars, simple vector algebra, linear motion, laws of motion, Kepler's laws; free fall, projectiles, escape velocity, satellites, weightlessness. Simple harmonic motion; motion of rigid bodies, moment of torque, moment of inertia; Work-Energy relations.

#### **PHY 112: GENERAL PHYSICS 2-0-3 (2 credits)**

Work, Power, Energy, Momentum, Impulse, Conservation of Energy and Momentum, Oscillatory motion, Periodic motion of an Oscillator, Velocity, Acceleration of an Oscillator, Equations of motion of a simple harmonic oscillator, Damped Oscillation, Forced oscillation, Resonance applications. Elastic properties of materials-module of elasticity of materials. Fluid mechanics and hydrodynamics. Pressure, Buoyancy, Fluid-Bernoulli's and Poissuelles equations.

#### **PHY 113: THERMAL PHYSICS 2-0-3 (2 Credits)**

Heat and temperature-thermometer and scale of temperature, changes of states, latent heat, specific heat, critical point, triple point, calorimetric gas laws (Boyle's, Charles' laws). Idea gas equation, kinetic theory of gases, isothermal, Adiabatic changes, principal specific heat of gases. First law of thermodynamics. Heat transfer-conduction, convection and radiation. Black body radiation. Stefan's Boltzmann law; Weins displacement law.

#### **CHM 111: PHYSICAL CHEMISTRY I 2-0-3 (2 Credits)**

Atoms, Dalton's atomic theory, atomic masses. Fundamental particles of atoms. Atomic structure. Modern electronic theory of atoms. Periodicity of the elements. Mole concept. Chemical formulas, equations and calculations. State of matter: gas, liquids and solids. Energetics and thermochemistry. Chemical kinetics, equilibrium and electrochemistry.

#### **CHM 112: ORGANIC CHEMISTRY I 2-0-3 (3 Credits)**

Historical survey of the development and importance of organic chemistry. Nomenclature and classes of organic compounds. Homologous series, functional groups, isolation and purification of organic compounds. Qualitative and quantitative organic chemistry. Resonance and inductive effects. Stereochemistry.

**BMS 111: ELEMENTARY MATHEMATICS 2-0-3 (2 Credits)**

Elementary set theory, subsets, union intersection, complement and venn diagram properties of some binary operations of sets. Real number systems. Simple definitios of integers, rational and irrational numbers. The principle of mathematical induction, real equations, binomial theorem, partial fractions, permutations and combinations, circular measure, trigonometric function of angles of any magnitudes. Addition and factor formulae, complex number, algebra of complex numbers, the argand diagrams, De moivre theorem.

**CSC 110: INTRODUCTION TO COMPUTER 2-0-3 (3 Credits)**

History of computer, functional components of a computer, characteristics of a computer, problem solving, flow charts, algorithm. Basic computer programming, statement, symbolic names, arrays, subscripts expression and control statements. Introduction to visual basic programming, computer applications.

**GST 111: USE OF ENGLISH I 2-0-0 (2 Credits)**

Modes and methods of effective communication in English. Use of literacy works to improve communication skills, Language skills. Development of reading, and writing skills. Noting taking and summarizing from oral English and written materials, writing of essays, answers and other assignments. Instruction on lexis, collection, and organization of materials and logical presentation for written assignment.

**GST 111: COMMUNICATION IN ENGLISH I 2-1-0 (2 Credits)**

Effective communication and writing in English, Language skills, writing of essays answers, comprehension, sentence construction, outlines and paragraphs. Collection and organization of materials and logical presentations, punctuation.

**GST 112: LOGIC, PHILOSOPHY AND HUMAN EXISTENCE 2-0-0 (2 Credits)**

A brief survey of the main branches of philosophy. Symbolic logic, special symbols in symbolic logic – conjunction, negation, affirmation, disjunction.

**GST 113: NIGERIAN PEOPLES AND CULTURE (2 Credits)**

Study of Nigerian history, culture and arts in pre-colonial times, Nigerian's perception of his world, culture areas of Nigeria and their characteristics. Evolution of Nigeria as a politic unit, Indigenes/settler phenomenon, concept of trade, economic self reliance, social justice, individual and national development, Norms and values, Negative attitudes and conducts (Cultism and related vices). Re-orientation of moral-environmental problems.

**CHM 121: INORGANIC CHEMISTRY 2-0-3 (3 Credits)**

Periodic table and periodic properties. Chemical bonding and theory. Hybridization. Structure of solid. Chemistry of selected representative elements. Qualitative analysis.

**CHM 122: CHEMISTRY PRACTICALS 2-0-3 (3 Credits)**

Theory and practice of qualitative chemical analysis, acid-base, oxidation-reduction, precipitation and complexometric titrations, gravimetric analysis. Calculations, data analysis and organic analysis for elements in Group II, IIIA, IIIB, IV, chemical analysis etc.

**CHM 123: ORGANIC CHEMISTRY 2-0-3 (3 Credits)**

Polar functional group chemistry. Alcohols and phenols. Aldehydes and ketones. Carboxylic acids and derivatives (Anhydrides and acid halides). Amino acids, fats and oils, Carbohydrates and natural products.

**PHY 121: Electromagnetism 2-0-3 (2 credits)**

Electrostatics charge, electric field strength, electric flux, inverse square law, Coulomb's law of force, Gauss' law, simple applicators to electric fields and potentials, potential difference fields due to simple charge distributions; Superposition principle, energy of electric fields, Capacitance; Combination of capacitances, dielectrics, polarization, energy stored in capacitors, charging and discharging of capacitors (Time constant  $\tau$  R. C. Circuits), Electric dipoles, Electric fields and potentials due to dipoles, Dipoles in electric fields, Work due to dipoles. Stead current, Simple DC Circuit. Electromotive Force, Ohm's law, Resistance, Resistivity, Conductance, conductivity, Current density, drift velocity, electron mobility, relaxation time combination of resistances, combination of cells. Kirchhoff's laws, Electric power, Measurement of electric quantities, Ammeters, Voltmeters, Potentiometers, Wheatstone bridge, Potential divider. Magnetic effect of current, magnetic fields due to simple electric circuits. Electromagnetic effect and simple applications

**PHY 122: Modern Physics 2-0-2 (2 credits)**

Atomic nature of matter, Discovery of the electron, Quantization of electricity (Millikan's experiment). Thompson's Cathode rays and the determination of the specific charge. Structure of the atom; Atomic models, Thompson's model, Rutherford's model, Bohr's model. The hydrogen atom, energy levels of the hydrogen atom, ionization potential, atomic spectra. The nucleus-structure of the nucleus, size and binding energy of the nucleus, binding fraction, packing fraction of the nucleus. X-rays- nature and production of X-rays, Properties of X-rays, Characteristics of X-rays, Bragg's X-rays diffraction, X-absorption (Compton effect, photoelectricity, Pair production). Continuous and line spectra, Moseley's equation. Application of X-rays.

Planck's quantum theory; de Broglie's hypothesis, wave particle duality. Radioactivity, natural and artificial radio activities, Radioactive emissions ( $\alpha$ ,  $\beta$  and  $\gamma$  rays). Radioactive decays ( $\alpha$ ,  $\beta$  and  $\gamma$  decays). Electron capture. Radiation hazards, Radiations detectors. And applications of radioactivity.

**BOT 121: PLANT STRUCTURE AND FUNCTION 2-0-3 (2 Credits)**

The flowering plant structure and function, study and similarities, and differences in plant features. Plants in action including respiration, photosynthesis, water relations, translocation and mineral nutrition. Plant reproduction, seed production and germination.

**ZOO 121: FUNCTIONAL ZOOLOGY 2-0-1 (2 Credits)**

Embryology; Gametogenesis, fertilization and cleavage as demonstrated by Amphioxus, Genetics; The cell and distribution of genetic material, mitosis, meiosis, inheritance, sex determination and sex linked inheritance. Histology; cells tissues, organ formation and main features. Physiology; functioning of Mammalian skin, muscle/skeleton, alimentary system/nutritional requirements and deficiencies.

**GST 121: USE OF LIBRARY, STUDY SKILLS AND ICT (2 Credits)**

Brief history of library, library and education, University libraries and other types of libraries, Study skills (Reference services). Types of library materials, using library resources including E-learning, E-materials etc. Understanding library catalogues (Cards, OPAC etc) and classification, copy-right and its implication, Data base resources, Bibliography citations and

referencing. Development of modern ICT, Hardware technology, Soft ware technology, Input devices, Storage devices, Output devices, Communication and Internet services, Word-processing skills (Typingetc).

**GST 122: COMMUNICATION IN ENGLISH II (2 Credits)**

Logical presentation of papers, phonetics, instruction on lexis, art of public speaking and oral communication, figure of speech, precise report writing.

**GST 123: COMMUNICATION IN FRENCH (2 Credits)**

Introduction to French, alphabets and numeric for effective communication (written and oral), conjugation and simple sentence construction based on communication approach, sentence construction, comprehension and reading of simple texts.

**200 LEVEL COURSE DESCRIPTIONS**

**MLS 211: INTRODUCTION TO MEDICAL LABORATORY SCIENCE I  
2-0-0 (2 Credits)**

General introduction to medical laboratory science subjects namely: Clinical Chemistry, Haematology and Blood Transfusion Science, Medical Microbiology, Histopathology and Immunology, Specimen collection, reception and registration. Storage and disposal, Specimen bottle. Safety precaution in pathology laboratories against chemical, biological, electrical materials and radiation hazards. Techniques and principles of chemical sterilization and physical methods. Glassware cleaning, care and maintenance. Breeding of laboratory animals.

**ANT 210: GENERAL ANATOMY AND GROSS ANATOMY OF THE  
UPPER LIMBS 203 (2 Credits)**

The general descriptive terms and the techniques as used in the study of the human body would be introduced. The normal anatomical position and the directional movement of the body parts would be introduced. The gross anatomy of the upper limbs: pectoral region, Axilla and the anastomosis, carpal tunnel. Hand, nerve injuries, Osteology and joints of the upper limb, the vascular anastomosis and lymphatic drainage of the breast and upper limb would be studied.

**ANT 211: GENERAL GROSS ANATOMY OF THORAX 203 (2 Credits)**

Description of the thorax: The sternum and ribs, thoracic vertebrae. Heart and great vessels. Thoracic duct, dissection of the entire thoracic region, Azygos system of vein, intercostals spaces, Mediastinum, lungs bronchopulmonary tree and segments, thoracic, diaphragm, Aorta and respiratory movement. Dissected specimens will be demonstrated to the students.

**ANT 212: GENERAL BASIC HISTOLOGY AND CYTOLOGY 203  
(2 Credits)**

Description, structure and the function of the cell general histology and basic tissues of the body. Preparation of tissues for microscopy, is a practical oriented course that is studied along side with the theoretically based lecture.

**ANT 213: GENERAL BASIC EMBRYOLOGY 200 (3 Credits)**

General consideration of the male and female reproductive organs, gametogenesis, fertilization, implantation, cleavage, the morula, the blastocyst formation of the primitive streak, the Bilaminar and trilaminar germ disc. Development of tissues and organ system of the embryo, the chronic and amniotic cavities. Foetal membranes , placental formation and

functions. The molecular regulation in differentiation of tissues and organs and in the establishment and patterning of the body axis. Birth defects, chromosomal and genetic factors. Twins and twin defects. General characteristics of the embryonic and foetal periods.

**PHS 211: INTRODUCTION AND GENERAL PHYSIOLOGY 2-0-0  
(2 Credits)**

Cells physiology, physiochemical principles, body fluids and blood transport, control system. Introduction to ANS, Excitable and contractile cells.

**PHS 212: BLOOD AND BODY FLUID 2-0-3 (2 Credits)**

Introduction and definition of body fluids and body third compartments. Regulation of body fluid and volumes. Physiological variation of body fluid volumes. Techniques for quantifying various body fluid volumes. Blood: functions of blood and classification of blood cells, Erythropoiesis, Haematology indices. Haemoglobin genotype and blood groups, Immunology and cell defence.

**PHS 213: CARDIOVASCULAR SYSTEM 2-0-0 (2 Credits)**

Definition and functions of the cardiovascular system, cardiac muscle, cardiac myoelectrophysiology, cardiac cycle, circulation of blood, cardiac output and regulation. Blood pressure, Haemodynamics and microcirculation, pulmonary, Cerebral, Coronary, Splanchnic and muscle circulation. Shock and cardiovascular changes in exercise.

**BCH 210: INTRODUCTORY BIOCHEMISTRY 2-0-0 (2 Credits)**

Short history and definition of biochemistry: importance of Biochemistry to medicine and other scientific disciplines. The living cell: Organization and Molecular architecture. Types of cell and their characteristics. Structure and organization of Biological membranes, Biomolecules and the origin of life. Chemistry of biomolecules. Carbohydrates classification, structure distribution and functional role of named examples. Chemical properties and reactions. Essential fatty acids, Eicosanoids, fat soluble vitamins – structure and functions. Peptide bonds and hierarchy of protein structure. Nucleic acids: RNA and DNA structure/function of enzymes, Zymogens. Active site and specificity of enzymes. Inhibition and activation of enzymes. Factors affecting enzyme-catalyses reaction. Allosteric enzymes, isoenzymes. The concepts of vitaminoses, Hypovitaminoses and Antivitamins. Vitamins and their co-enzyme function. Biomedical importance of vitamins.

**ANT 220: GROSS ANATOMY OF THE ABDOMEN, PELVIS AND PERINEUM 2-0-3 (2 Credits)**

Abdomen: subdivision of the abdominal region and their applied anatomy, Anterior abdominal wall, inguinal region, posterior abdominal wall, stomach, spleen, liver, gall bladder, pancreas, small and large intestine, celiac trunk, biliary apparatus, intra and supra colic compartment and recesses, appendix, renal and suprenal gland, dissection of the entire abdominal region for proper understanding of the entire region. Pelvis and perineum: Pelvic cavity wall and diaphragm. Pelvic visceral like the urinary bladder, uterus, testes, ovary etc. Perineum, boundaries and subdivisions. Perineal pouches, external genitalia, ischiorectal fossas. General dissection of the pelvis and perineum region.

**ANT 222: SYSTEMIC HISTOLOGY I 2-0-3 (3 Credits)**

The diaphragm, the cardiovascular, respiratory and gastrointestinal systems. Development of the adrenal gland, the liver. The pancreas and the spleen. The urogenital, Musculo-skeletal

and integumentary system. The limbs, the molecular regulation and associated developmental anomalies of the systems.

**MLS 222: INTRODUCTION TO MEDICAL LABORATORY SCIENCES  
2-0-1 (2 Credits)**

Microscopy and micrometry-use and care of microscopes. Refrigeration and Freez-dries principles, uses, care and maintenance. Handling of laboratory animals. Laboratory location and floor plan. Laboratory organization and management. Simple analytical techniques in chemical pathology. Presentation of volumetric analysis. Urinalysis. Principles of tissues preservation, fixation, processing and staining. Handling of surgical autopsy specimens. Removal of formalin pigment, basic tools of the microbiologist: wire loop, cotton wool, pipettes, swab and their uses, preparation of films and basic staining techniques: Gram's stain, Ziehl Nelson's stain. Haematological stain principle and components. Blood film preparation and staining, pipettes, Counting chamber's care and uses. Haemoglobin, PCV estimation, WBC counting.

**PHS 221: RENAL PHYSIOLOGY AND TEMPERATURE REGULATION 2-0-0  
(2 Credits)**

Definition and functions of the kidney. Physiologic anatomy of the kidney, Glomerular filtration. Tubular functions, Urine formation: Dilute and concentrated. Urine counter-current mechanism. Plasma clearance, renal autoregulation, ECF regulation. Acid Based balance, Renin-Angiotensin system. Body temperature and the environment, Mechanisms of heat exchange, peripheral, thermoreceptors, central thermoreceptors, hyperthermia, and hypothermia, Fever, heat exhaustion and Heat stroke.

**PHS 222: GASTROINTESTINAL PHYSIOLOGY 2-0-3 (3 Credits)**

Definition and functions, Physiologic anatomy and innervations of the GIT, Mastication, Deglutition, Salivary gland, Digestion and food absorption. Movement and stomach emptying, Movements of the GIT, vomiting and defecation, GIT secretions and juices, Liver and general metabolism (BMR).

**PHS 223: ENDOCRINOLOGY AND REPRODUCTION 2-0-0 (2 Credits)**

Definition and functions, Definition of Hormones, Methods of measurement, Types and mechanism of actions, Regulation, Physiologic, anatomy, Hypothalamus, Hypothalamic releasing factors, Hypothalamic Nuclei, Hypothalamo-hypophyseal system, pituitary gland, tropic hormones, GIT and other Local Hormones. Structure and functions of male and female reproductive organs. Androgens, Spermatogenesis and fertility. Infertility in male. Agenesis, Sexual cycle and hormonal regulations. Fertilization, Pregnancy and Parturition, Fertility and Infertility in female. Family planning.

**PHS 224: RESPIRATORY SYSTEM 2-0-0 (2 Credits)**

Definition and functions of the respiratory system, Physiologic anatomy of the respiratory system. Respiratory dynamics and work pulmonary ventilation: Lung volumes and capacities, Spirometry. Mechanism and mechanism of breathing, Lung surfactant, pulmonary circulation. Gas exchange and gas transport. Oxygen-Haemoglobin dissociation curve. Hypoxia and dyspnoea. Respiratory changes in exercise and barometric changes. Control of breathing.



**BCH 220: CARBOHYDRATE AND LIPID METABOLISM 2-0-3 (3 Credits)**

Structural inter-relationships of sugars. Stereochemistry of sugars. Hexoses, Pentoses, Disaccharides, Starch, Glycogen and Polysaccharides. Methods of identifying sugars. Carbohydrate metabolism. Digestion and absorption. Glycolysis. TCA cycle and pentose phosphate pathway. Glyoxylate pathway. Gluconeogenesis and Glycogenesis. Mitochondrial Electron Transport Chain and Oxidative Phosphorylation. Energy generation and storage in Biological Systems. Disorders of Carbohydrate Metabolism. The Pyruvate and  $\alpha$ -Ketoglutarate complexes and their regulation. Metabolism of lipids. Digestion and absorption. Role of Lipoproteins in lipid transport. Metabolism of lipoprotein in health and disease. Triacylglycerol oxidation and oxidation of fatty acids. Storage and mobilization of energy stores in adipocytes. Ketone bodies and ketosis. Interrelationship of fatty acid and carbohydrate biosynthesis/oxidation. Biological importance of Eicosanoids. Glycolipids and Sphingolipids. The chemistry and metabolism of steroids and steroid hormones.

**BCH 223: AMINO ACID AND PROTEIN METABOLISM 2-0-3 (3 Credits)**

Structure of amino acids. Peptide bonds. Metabolism and transport of amino acids and proteins. Digestion and absorption. Gammaglutamyl Cycle. Detailed treatment of mechanism of deamination, transamination. Glutamate Dehydrogenase, Glutamate and Glutamine synthesis. The biochemical and clinical importance of these enzymes. Fate of Carbon skeleton. Urea cycle. The concepts of Nitrogen balance. Nitrogen turnover in cells. Degradation of amino acids. Aromatic acids degradation, inborn error of metabolism, metabolism of Uric Acid. Integration and Compartmentation in intermediary metabolism. Metabolism of one carbon compounds.

**BCH 225: PROTEIN CHEMISTRY AND ENZYMOLOGY 2-0-3 (3 Credits)**

A review of the structural characteristics of proteins. Determination of N and C terminal amino acids. Amino acid sequence and sulphide bridges. Determination of protein structure by X-Crystallography. Biological functions of proteins. The oxygen transporting proteins (Haemoglobin and Myoglobin). Connective tissue proteins. Collagen and Elastin. Structure/Function relationship. Enzymes. Isolation and Purification from animals and plants and microorganisms. Zymogens and Isoenzymes. Characteristics of enzymes. Kinetics of enzymes catalysed reaction. Allosterism. Importance of Enzymology in Medicine. Coenzymes and relationship to vitamins.

**GST 211: HISTORY AND PHILOSOPHY OF SCIENCE**

Man-his origin and nature, man and his cosmic environment, scientific methodology, science and technology in the society and service of man, renewable and non-renewable resources-man and his energy resources, environmental effect of chemical plastics, textiles, wastes and other materials, chemical and radiochemical hazards. Introduction to the various areas of science and technology. Element of environmental studies.

**300 LEVEL****MLS 310: LABORATORY POSTING I 0-1-6 (3 Credits)**

Posting of students to all sections of routine medical laboratories for on the job training under the supervision of qualified medical laboratory scientists for 2 days weekly for the entire semester. Scored log books are kept by each student per posting.

**MLS 311: MEDICAL LABORATORY SCIENCE ETHICS 2-0-0 (2 Credits)**

History and philosophy of ethics in the practice of Medical Laboratory Science. Relationship between religion and socio-cultural values on medical ethics. Ethical issues involved in

private practice. Relationship between the Medical Laboratory Scientist and other members of the health team. Intra professional auditing, Medical Laboratory Sciences ethics and consultancy services. Elements of informed consent in research. Relationship between proper dressing, personal comportment and patient care- the Psychologist's view: Medical Laboratory Science ethics as it affects paternity disputes, infertility studies, and sexually transmitted disease etc. Real cases presentation medico-legal aspects of medical laboratory practice.

**MLS 312: INTRODUCTION TO MEDICAL LABORATORY SCIENCE III  
2-0-0 (2 Credits)**

Introduction to parasitism, and other animal associations, adaptation to parasitic way of life. How parasites invade their host. The infective agents of parasites. Basic knowledge of structure, classification and life cycle of parasites of medical importance, vectors and intermediate host of parasites. Introduction to arthropods of medical importance. Biology of the mosquito in relation to the transmission of malaria, filariasis and viral infections.

**MLS 313: MEDICAL PHYSICS 2-0-3 (3 Credits)**

Kinematical and mathematical problems – circulation of pulse, blood pressure and volume changes. The heart and blood surface tension effect. Temperature and heat flow/electricity, electrocardiograms, general radiation linear energy transfer and radiation measurement, radiation damage-detection and safety. X-ray generation and application, radioisotopes production, use and disposal.

**MLS 314: BASIC CLINICAL CHEMISTRY 2-0-3 (3 Credits)**

Traditional and S.I. units in clinical chemistry; Reference values: Gastric function test: agent for Gastric stimulation. Ward procedures and laboratory investigation of Gastric secretion: Intestinal function tests; Digestion and absorption; cause of Malabsorption. Laboratory investigation of malabsorption. Renal functions of the kidney; measurement of Renal plasma flow, Glomerular filtration rate. Creatinine clearance, Insulin clearance, concentration and dilution tests, urinary, acidification tests, urine specific gravity/osmolarity. Dye Excretion Test. Water and Electrolyte Status. Blood buffers. Transport of blood gases; Assessment of acid/base status. Lipids: definition and types of lipids; formation of free fatty acids, Ketone bodies and lactate; measurement of plasma lipids and lipoprotein. Plasma proteins and physiology functions; factors affecting synthesis and catabolism. Methods for the determining of total protein in serum. Carbohydrate metabolism; blood glucose homeostasis. Hyperglycemia diabetes mellitus- its cause and investigation: Hypoglycemia- types, causes and investigation.

**EPS 311: INTRODUCTION TO THEORY AND PRACTICE OF  
ENTERPRENEURSHIP 2-0-0 (2 Credits)**

Introduction to entrepreneurship, ways of starting a business, conducting market surveys etc. Legal procedures for starting an entrepreneur and the Law, Financing, Marketing, Record and Record Keeping, Business planning.

**BCH 310: INTERMEDIARY METABOLISM 2-0-0 (2 Credits)**

Integration of metabolism. The provision of metabolic fuels. Metabolic fuels in the fed and starving states. Metabolic interrelationship between adipose tissue, liver, extrahepatic tissues and muscles. The role of hormones in intermediary metabolism. Regulation of metabolism in adipose tissue.

**MLS 315: BASIC IMMUNOLOGY 2-0-0 (2 Credits)**

The historical background of immunology. Classification of immunity. Innate Immunity. Development and structure of cells in the immune system. Cellular interaction in the expression and regulation of immunity acquired.

**MLS 321: INTRODUCTION MICROBIOLOGY 2-0-0 (2 Credits)**

History, morphology, growth and nutrition. Classification and identification of bacteria. Bacterial genetics, Bacteriophages, Viruses, Infection and Resistance to infection. Sterilization and disinfection. Antimicrobial agents. Introduction to parasites and fungi.

**MLS 322: LABORATORY INSTRUMENTATION AND TECHNIQUES  
3-0-2 (3 Credits)**

Instrument aspects of qualitative and quantitative analysis- theory and practice of some common analytical techniques: colorimetry, spectrophotometry, flame-photometry, conductometry, polarography etc. Osmometry, nephelometry, turbidometry, pH measurement by ion specific electrodes- separation techniques including Electrophoresis: paper, cellulose, acetate, Agar gel starch and polyacrylamide gel. Isoelectric focusing, Isotophoresis, Chromatography, Ion exchange, Gel filtration, molecular sieves; dialysis, filtration, solvent extraction, Centrifugation – ultracentrifugation, Immunoelectrophoretic techniques, radio immunoassay, competitive protein binding, Isotope dilution techniques, Enzymes Immuno assay, Receptor Assay, Automation, Micro and Ultra Micro Analysis. Practical based on the above topics.

**MLS 326: LABORATORY ORGANIZATION AND SUPPLY CHAIN  
MANAGEMENT SYSTEM 2-0-0 (2 Credits)**

Laboratory Management, planning a medical laboratory including the provision for the reception of patients, selection and storage of chemicals, materials and apparatus. Detailed knowledge of the principles, use and maintenance of common laboratory apparatus and equipment. Ventilation, air conditioning and dust control in the laboratory. Equipment used in special workbench e.g cutting-up benches, media-pouring, etc. Sterilization of air. Laboratory hazards and safety measures to be taken in the use of radioactive and dangerous materials. Emergency treatment for accidents. Laboratory Records, maintenance of records: reception, recording storage, filling and indexing of specimens and result. Organization and operation of a system of quality control. Cataloguing and indexing of laboratory supplies. Methods of recording experiments. Health commodities supply chain management, SOPs for management of Medical Laboratory commodities, Logistics Management Information System (LMIS), Product selection, Quantification and Storage of Health Commodities, Supply planning, shipment scheduling, monitoring and supervision of logistic systems

**MLS 323: FUNDAMENTAL BLOOD SEROLOGY 2-0-3 (3 Credits)**

ABO and Rhesus Blood Groups. Inheritance, distribution and genetic theory. Blood Grouping techniques and principles, disadvantages and advantages. Preparation of Antisera, Antiserum titration avidity, potency and specificity. Plant lectins preparation and standardization of antisera from lectins e.g Dolichos biflorus. Anticoagulants used in BGS; ACD, CPD-CPA-A etc in modes of action and side effects. Blood bottles (MRC) and plastic bags- Advantages and disadvantages. Donor screening using CUSO method other methods of screening. Preparation of blood products: cryoprecipitate, platelet-rich plasma, packed cells, fresh frozen plasma, fibrinogen etc. Storage of blood and blood products-various methods, advantages and disadvantages. Blood banking –organization structures, facilities and records. Blood group

specific substance –synthesis, identification method (s) reagents. Practical/Tutorials. ABO and Rhesus grouping method. Antiserum Titration DCT and ICT antibody screening.

**MLS 324: BASIC HAEMATOLOGY 2-0-3 (3 Credits)**

Origin, development and function of blood cells. Synthesis and breakdown of haemoglobin. Methods of haemoglobin estimation. Methods of cell counting. Absolute values. Introduction to Homeostasis. Principles and mode of action of common anticoagulants. Principle and components of haematological stains. Simple tests used in blood coagulation. Blood films – Normal and Abnormal practical classes.

**MLS 325: GENERAL PATHOLOGY (BASIC HISTOPATHOLOGY) 2-0-3 (3 Credits)**

Introduction to Histopathology, fixation, autolysis, bacterial decomposition. Effect of fixation, common fixing agents and their uses. Secondary fixation, post-fixation and post-chroming and posting mordanting. Fixation, pigments, Decalcification. Dehydration, clearing and infiltration/embedding media. Basic histology of organs. Principles and application of exfoliative cytology. Collection and fixation of specimens for cytological examination. Museum techniques- colour restoration. Mounting in museum jars. Tissues and cellular injury and inflammation. Healing and repairs. Gross post-mortem slide examination to illustrate normal and abnormal features appearances of diseased organs in routine and common tumours.

**PCO 320: INTRODUCTORY PHARMACOLOGY 2-0-3 (2 Credits)**

History of pharmacology and its development. Introduction to pharmacokinetic; drug absorption and bioavailability. Drug metabolism, pharmacogenetics. Effects of disease on drug kinetics. Drug in pregnancy and the extreme age. Pharmacodynamics, Dose-response relationship, LD<sub>50</sub>, ED<sub>50</sub> and Therapeutic index. Introduction of new drugs, clinical trials, adverse reactions and adverse reaction surveillance.

**MLS 320: LABORATORY POSTING II 0-1-6 (3 Credits)**

Posting of students to all sections of routing Medical laboratories for on job training under the supervision of qualified medical laboratory scientist for 2 days per week. Scored logbook records per bench are kept for each student per posting.

**400 LEVELS**

**MLS 411: MEDICAL PARASITOLOGY AND ENTOMOLOGY 2-0-3 (3 Credits)**

Introduction to the parasites. Classification of protozoa (the amoebas, the ciliates, the flagellates), Nematodes (Ascaris, Strongyloidies, Trichuris, Guinea worms, Trichinella, Enterobius, etc). Lifecycle and pathogenicity of cestodes (The tapeworms, Larval forms of Cestodes). Life cycle and pathogenicity of the Trematodes (The Schistosome, Fasciola, Paragonimus, etc). Methods of demonstration of parasite in blood, faces, vagina, urine, urethra, pus from lung and liver, skin snips, etc. Mechanisms of their disease production; Epidemiology and control of parasitic diseases. Arthropods of medical importance- the crustaceans, Arachnida, Hexapoda, Myiasis etc. their biology, life cycles and control. Life history as disease vectors various disease of medical importance transmissible by insects. Biology of mosquito in relation to transmission of malaria, filariasis and viral infections etc.

**MLS 412: BASIC MEDICAL BACTERIOLOGY AND MYCOLOGY 2-0-3  
(3 Credits)**

Methods for the demonstration of bacterial form and structure. Design and preparation of culture media. Sterilization and other methods of bacterial control. Aseptic procedures and methods for pure culture isolation, procedures for receiving, handling and processing of clinical specimens. Antibiotic assay, sensitivity test and chemotherapy. Plate reading. Principle and techniques of anaerobic bacteriology. Methods of total and viable counts. Stock culture preservation, quality control of culture and media. Record-keeping in Bacteriology laboratory. Staining techniques for spores, capsules and negative staining procedure, wet preparation, motility tests. Introductory Mycology.

**MLS 413: INTRODUCTION TO HAEMOGLOBIN, HAEMOGLOBINOPATHY & MYELOPROLIFERATIONS 2-0-3 (3 Credits)**

Iron metabolism, folate and vitamin B12 metabolism, Nonmenclature, classification and investigation of common haemoglobinopathies, haemolytic anemia's, myeloproliferative disorder, homeostasis and disorder of homeostasis; investigation of bleeding disorders. Bone marrow. Practical classes.

**MLS 414: INTRODUCTION TO THE BLOOD GROUP SYSTEMS & COMPATIBILITY TESTS 2-0-3 (3 Credits)**

Blood groups – other blood groups e.g MNS, Duffy, Kell, Kidd etc. Grouping techniques and antibody screening, clinical significance, serostatus. Antenatal serology – screening and titration (quantitation) compatibility procedures – different methods, advantage and disadvantages, Blood transfusion reactions- causes and types; investigation. Risks attendant in blood transfusion – Diseases, anaphylactic, haemolytic and allergic reactions. Screening of Donor blood for diseases. Compatibility procedures – advantages and disadvantages. Practical based on the above topics.

**MLS 415: ANALYTICAL CHEMISTRY 2-0-3 (3 Credits)**

Principles of analytical techniques in clinical chemistry- devising new techniques, biological trials and tests for acceptability. Solid/dry phase chemistry, dipstick technology, thin film technology, immobilized enzymes – analytical techniques for qualitative and quantitative determination of enzymes, hormones, proteins, lipids, trace elements, non-protein nitrogen, volumetric analysis- partition, adsorption, gel filtration, ion exchange and gas liquid chromatography. Electrochemical analysis – principles of potentiometric analysis. Fractionation of proteins – fractional precipitation (salting-out), Chromatographic and electrophoretic procedures. Protein precipitants – mode of action and choice in analytical procedures.

**MLS 416: INTRODUCTION TO CYTOLOGY 2-0-0 (2 Credits)**

Collection, selection and preparation of cytology specimens (Cervical smear, Vaginal smear, Bronchial aspirates, Ascitic fluids and other fluids). Cytology staining techniques, normal, atypical and malignant cells. Cornification index. Maturation index, progesterone/androgen effects.

**MLS 410: LABORATORY POSTING III 0-1-6 (3 Credits)**

Posting of students to all sections of routine medical laboratories for on job training under the supervision of qualified medical laboratory scientists for 2 days per week in the entire semester. Scored logbook records per bench are kept for each student per posting.

**MLS 417: NUCLEIC ACID BIOCHEMISTRY AND BASIC CONCEPTS OF MOLECULAR BIOLOGY 2-0-0 (2 Credits)**

Nonmenclature of bases, nucleosides and nucleotides. Nucleic acids. Hydrolysis of nucleic acids. Analysis of nucleotide sequence in nucleic acids and its application in diagnosis of diseases. Nucleic acid protein complexes. Genetic role, structure and replication of DNA. Introduction to polymerase chain reaction and its application in laboratory diagnosis.

**MLS 421: BIOSTATISTICS 2-0-0 (2 Credits)**

Aims, characteristics and application of biostatistics in biomedical sciences – samples, population variables, frequency distribution, vital and descriptive statistics, measurement of central tendencies – mean, median, mode dispersion, standard deviation and coefficient of variation. Collection and presentation of data, probability distribution. Hypothetical tests of statistical significance. Analysis of variance, regression and correlation. Experimental designs and clinical trials.

**MLS 422: VIROLOGY 2-0-3 (3 Credits)**

Morphology and life cycle of viruses, nonmenclature and classification of viruses- various methods. Reproduction and multiplication of viruses. Resistance, pathology, collection of clinical specimens for viral culture. Culture methods for isolation of viruses, purification, immunity, laboratory diagnosis of viral infection. Haemagglutination test, CFT, Neutralization test, Systematic study of viral diseases. Interferon, immunotherapy and chemotherapy in viral infection, inclusion bodies and cytopathic effects. Viral and host interactions and identifications, Viral vaccines and immunoprophylaxis.

**MLS 423: INTRODUCTION TO HISTOPATHOLOGY TECHNIQUES AND MUSEUM 2-0-3 (3 Credits)**

Principle of photochemical methods. DNA –demonstration by Feulgen techniques. Silver impregnation methods. Genes and genetic code. Tissue culture techniques. Chromosome analysis. Autoradiography – definition and principle. Organization of a medical museum. Method of colour maintenance. Fixation and storage of museum specimens. Special museum techniques e.g Dawson's method. Principle of photography- macro and microphotography. Preparation of stained sections for microphotography. Preparation of specimens for macrophotography. Cytological normal cells. Histology of tissues. Atypical and malignant cells. Collection of cytological smears, processing and screening. Principle of electron microscopy. Practical based on the topics.

**MLS 424: BOMEDICAL ENGINEERING 2-0-0 (2 Credits)**

Workshop practice. Principle of use, maintenance and repair of common apparatus and laboratory equipment. Principle of applied and general electronics. Circuit diagrams. Computer programming. Improvisation. Glass blowing and construction of simple laboratory equipment. Design techniques, improvement on existing equipment, review and modifications of laboratory's methods.

**MLS 425: BIOTECHNOLOGY AND BIOINFORMATICS 2-0-3 (3 Credits)**

General preparation and storage of reagents for diagnostic use. Preparation and purification of antibody and antigen for diagnostic tools. Monoclonal and polyclonal antibodies. Concepts of vaccination. Preparation, purification and storage of vaccine. Introduction to mathematical and computation Genomics. Its application to medicine in general and laboratory diagnosis specifically.

**MLS 426: COUNSELLING SKILLS 2-0-3 (2 Credits)**

Definition of counselling, care and support, types of counselling: pre-test and post-test, prevention, primary or secondary. Crisis management, problem solving, decision making, couple, spiritual and pastoral counselling. Who needs counselling. Prospect/benefits of counselling, constraints in counselling, rewarding, overview of communication/listening skills. Prevention and management of conflicts. Genetic counselling including sickle cell trait in marriage, blood donation campaign, HIV infection etc. Case studies.

**MLS 420: LABORATORY POSTING IV 0-1-6 (3 Credits)**

2 days weekly for the entire semester. Scored logbooks are kept by each student per posting.

**MLS 427: IMMUNOLOGY/IMMUCHEMISTRY 2-0-0 (3 Credits)**

Immunoglobulin-structure and infection. Gene organization and assembly. Mediators of cellular immunity. Phagocytic cell-Chemotaxis and effectors function of macrophage and granulocytes. The complement system. Laboratory methods of detection of antigens and antibodies. Autoimmunity. Tissue and graft reactions, immunotolerance, self and Non-self, Histocompatibility, Transplantation, Tumour immunology, Hypersensitivity and allergy.

**500 LEVEL**

**GENERAL COURSES FOR ALL THE CANDIDATES**

**FIRST SEMESTER**

**MLS 510: LABORATORY POSTING V 0-1-6 (3 Credits)**

Each student undergoes on the bench training in the different analytical techniques used in the area of specialization. The students are to participate in the routine operation of the laboratory. Logbooks are kept by each student under the supervision of a qualified medical laboratory scientists.

**MLS 511: SEMINAR 0-2-0 (2 Credits)**

Students are to carry out intensive literature research and present seminar on selected approved topics to the departmental colloquium. Each presentation will be for about 15 to 20 minutes followed by general discussion. The presentation will be scored by the group of internal assessors appointed by the department.

**MLS 512: RESEARCH METHODOLOGY 3-0-0 (3 Credits)**

Introduction to research methodology. Collection of literature review articles. Problem definition. Sampling techniques. Experimental designs of medical and data public health studies. Questionnaire design and data collection analysis. Interpretation and utilization of research findings. The role of research in health and social welfare. The need for institutional and governmental ethical clearance for some research. Aims, characteristics and application of biostatistics. Measures of central tendencies and variation. Collection and presentation of data. Probability sampling. Test of statistical significance. Experimental designs and clinical trials. Other applications of biostatistics to clinical and preventive medicine projects. Research proposals and sourcing of funding for research projects. Arts of scholarly publications, and instructional design.

**MLS 513: CYTOGENETIC 2-0-0 (2 Credits)**

Theory and practice of clinical cytogenetics. Chromosome analysis, structure, organization and staining techniques. Chromosomes in man, Normal karyotype and chromosome abnormalities. Mosaicism, trisomy, monosomy, translocation, Klinefelters and Turner's

syndromes, sex determination. Genetic diseases, clones, mapping of autosomes, DNA synthesis, gene in kindred segregation, X-linked inheritance. Chimeras. Genes in families and population. Selection, pedigree analysis, mutation and mutagens, Hardy Weinberg equation, genetic drift, inbreed. Slide reporting. Philadelphia and Christ church chromosomes.

## **SECOND SEMESTER**

### **MLS 520: LABORATORY POSTING V 0-1-6 (3 Credits)**

Each student undergoes on the bench training in the different analytical techniques used in the area of specialization. The students are to participate in the routine operation of the laboratory. Logbooks are kept by each student under the supervision of qualified medical laboratory scientists.

### **MLS 521: GENETICS AND MOLECULAR BIOLOGY 3-0-0 (3 Credits)**

Genomic, Gene purification and amplification, polymerase chain reaction technique. Construction of genetic maps. Biotechnology – recombinant DNA, Hybridoma.

### **MLS 522: PROJECT 0-0-8 (6 Credits)**

A supervised research project on an approved topic to be undertaken by each student for the partial fulfillment of the BMLS degree requirement. Assessment of the project.

## **CLINICAL CHEMISTRY**

### **MLS 531: CARBOHYDRATE, PROTEIN AND LIPID METABOLISM 2-0-3 (3 Credits)**

Carbohydrate metabolism and disorder. Pathophysiology of diabetes mellitus. Diabetic ketoacidosis, Hyperosmolar non ketotic coma, lactic acidosis, Glycogen storage diseases. Insulinoma. Diagnostic criteria and laboratory investigation. Fasting plasma glucose, random plasma glucose, glucose tolerant test, pancreatic hormones and glycosylated haemoglobin. Lipid lipoproteins structure, composition and function, Intravascular metabolism and catabolism of lipoproteins. Disorders of lipid and lipoproteins. Lipid storage diseases. Cardiovascular function test. Recent advance in diagnosis of lipids disorders. Plasma proteins in health and diseases. Definition, cause and investigation of paraprotein (Bence Jones proteinuria) and significance. Fractionalization of proteins. Protein electrophoresis in health and diseases. Protein degradation. Metabolic disorder and regulation of amino acid metabolism.

### **MLS 532: RENAL, LIVER & NEURO-CHEMISTRY 2-0-3 (3 Credits)**

Physiology of kidney, renal clearance and glomerular filtration rate. Renal plasma flow, maximal tubular excretory and reabsorptive capacity. Urea, creatinine and insulin clearance. Concentration and dilution tests. Renal failure, azotaemia, anuria, sodium loss in renal diseases. Aminoaciduria. Kidney diseases and kidney function test. Urinalysis in health and diseases. Features of hypernatraemia and hyponatraemia. Investigation of water and electrolyte imbalance. Homeostasis in clinical chemistry. Acid-base balance. The liver anatomy and physiology – an overview. Biosynthesis of bilirubin, excretion of bile pigments. Jaundice anatomical and physiological classification. Pigment excretion in jaundice. Liver diseases and liver functions test to include congo red test for amyloidosis and faecal fat estimation. Biochemistry of neoplastic disorders. Diseases of the nervous system. Basic neurochemistry, CSF – normal composition and changes in diseases. Diseases of muscles.



**MLS 533: CLINICAL ENZYMOLOGY 2-0-3 (3 Credits)**

Mechanics of enzyme action and kinetics. Activation repression phenomenon. Enzyme induction, inhibition, purification and specificity. Clinical Enzymology; Coenzymes and Isoenzymes in medicine, diagnosis, importance of isoenzymes in biotechnology.

**MLS 534: NUTRITION AND CLINICAL VITAMINOLOGY 2-0-0  
(2 Credits)**

Vitamins History and Biochemical Functions. Chemistry and metabolism of water and fats soluble vitamins. Their deficiency states and physiological significance. Relationship with hormones. Vitamin in health and diseases. Methods of analysis. Trace elements – Bioavailability, biochemical function, metabolism and interaction. Hormonal control and methods of analysis. Specific elements in health and diseases. Bone diseases and investigation of bone disorders, types, causes etc. Causes and investigation of nutritional disorders.

**MLS 535: DRUG MONITORING, TOXICOLOGY AND INBORN ERROR OF METABOLISM 2-0-3 (3 Credits)**

Introduction to assimilation, distribution, elimination and excretion of drugs. Practical and theoretical aspect of poisoning. Investigation of suspected cases of poisoning. Estimation of blood alcohol, Salicylate sulphonamide, cyanide, oxygen, CCh, ammonia and detection of barbiturate, cocaine, heroin, opium, phenothiazine, methaqualone etc in blood, urine, sweat, aspirates, etc. Porphyrin, causes, symptoms and laboratory investigation of porphyrinaemia. Porphyria and porphyrinuria. Haemoglobin, synthesis, chemistry of Haemoglobinopathies, Sulp Hb, CoHb, Met Hb. Definition, causes, consequences and investigation of some inborn error of metabolism: Phenylketonuria, galactosemia fructose intolerance, Albinism, aminoaciduria.

**MLS 536: CLINICAL AND REPRODUCTIVE ENDOCRINOLOGY 2-0-3  
(3 Credits)**

Endocrine glands – organization. Cellular communication by endocrine glands. Endocrine receptor binding control of endocrine action. Endocrine glands functions; the hypothalamus, the pituitary, the parathyroid, adrenal cortex, adrenal medulla. The gonads and reproductive endocrinology. Foeto-placental function. Endocrine control of metabolism and endocrine diseases/disorders, water imbalance, insulin action, thyroid hormone and reproduction. Investigation of male and female infertility.

**MLS 537: TECHNIQUES IN CLINICAL CHEMISTRY 2-0-3 (3 Credits)**

Analytical techniques, standardization and quality control. Validation of assay. Birth of a new method, devising new techniques. Biological trial and tests for acceptability. Solid/dry phase chemistry. Dipstick technology, thin film technology. Immobilized enzymes. Functional test in clinical chemistry. Liver function test. Renal function test. Gastrointestinal function test etc. Analytical techniques employed in qualitative and quantitative. Determination of (1) Enzymes - Phosphatases, Transaminases, Dehydrogenases, Kinases (2) Hormones (3) Protein – Total proteins, Albumin and Globulin specific protein (4) Lipids-cholesterol, triglycerides, glycerol, fatty acids and lipoproteins (5) Trace elements – Fe, Cu, Zn, Mg, Selenium (6) Non-protein nitrogen – Urea, Creatinine, Uric acid, Amino acids and Ammonia. Urinalysis, determination of urine specific gravity, osmolarity, qualitative tests for protein, glucose and reducing substances. Ketone bodies, bilirubin, urobilinogen and blood. Haemoglobin and its derivative in blood and urine. Chromatography, spectroscopy, spectrophotometry and photometry, AAS, Flame photometer, AES, Radioimmunoassay, ELISA AND EIA.

## **HAEMATOLOGY AND BLOOD TRANSFUSION SCIENCE SPECIALITY**

### **MLS 541: HAEMOPOIESIS, HAEMOGLOBIN, HAEMOGLOBINOPATHIES & MYELOPROLIFERATIONS**

**2-0-3 (3 Credits)**

Erythropoiesis and blood. Blood cell counts in health and diseases. Blood indices, Anaemia, disorders of iron metabolism, Vitamin B<sub>12</sub> and Folate deficiencies, Haemochromatosis and related storage disorders. The spleen and splenomegaly syndromes. Drugs, chemical and the blood. Haemoglobinopathy, Haemoglobin genotype and phenotype. Blood in infancy, childhood and pregnancy. Hereditary and blood disorder. Blood in microbial infections. Identification of blood parasites. Immunohaematological disorders, autoimmune diseases, thrombocytopenia, leucopenia, leukemia, systemic and disseminated lupus erythematosus, rheumatoid arthritis, myelomatosis and order paraproteinaemia. Preparation and cytology of blood and bone marrow films in health and disease.

### **MLS 542: BLOOD GROUP SYSTEMS AND COMPATIBILITY TESTS**

**2-0-3 (3 Credits)**

ABO and other blood groups – MNS, KELL, Kidd, Duffy, Lewis, etc. Antenatal serology, Hemolytic diseases of the newborn. Type, etiology, antenatal and post natal management. Blood group serology in paternity dispute. Haemolysin titration. Absorption and elution techniques. Indication and complication of blood transfusion. Red cell survival tests – radioisotope and differential agglutination methods. Screening of blood donor for infective agents – HIV, HBV, HCV, malaria, filarial, trypanosomes, syphilis, etc. anonymous result in blood grouping. False positive and false negative result in compatibility testing. Preparation and standardization of AHG.

### **MLS 543: SEROLOGY AND BLOOD TRANSFUSION SCIENCE 2-0-3**

**(3 Credits)**

Leucocytes and platelet antigen and antibody. Auto-immunization: IgA, IgG, IgM antibodies. National Blood Transfusion Service. Preparation of commercial quantities of polyclonal antisera. Principles, uses and techniques of producing monoclonal and polyclonal antibodies. Types of blood substitutes and preservations. Preparations of blood products. WHO standards in BGS. Red cells membrane structure in relation to blood antigen locations.

### **MLS 544: ADVANCED HAEMATOLOGICAL TECHNIQUES 2-0-3**

**(3 Credits)**

Principles and techniques of isoelectric focusing. Protein separation of column chromatography. Finger printing, principles and techniques. Purification of proteins and enzymes. Ultracentrifugation and molecular weight determination. Culture of blood cells and parasite. Leucocyte typing, Platelet aggregation – principles and techniques. Radioisotopes in Haematology, Isotope labelling techniques, measurement of radioactivity, Fluorescent antibody techniques. Radioimmunoassay, ELISA, Western blotting immunoelectrophoresis, Competitive protein binding. Automation in Haematology, Electrophoresis – starch agar gel and polymerase chain reaction. Cytochemical procedures. Lymphocyte Transformation Tests. Paul-Bunnell Test.

### **MLS 545: ADVANCED BLOOD GROUP SEROLOGY TECHNIQUES 2-0-3**

**(3 Credits)**

Techniques for emergency compatibility testing – low ionic sucrose solution spin coomb's albumin special compatibility techniques. Exchange and extracorporeal blood transfusion.

Preparation of enzymes used in BGS. Forensic application of BGS, Two stage Coomb's techniques. Autoanalysers for antibodies and antigen detection and identification etc.

**MLS 546: COAGULATION AND FIBRINOLYSIS 2-0-3 (3 Credits)**

Platelet functions, normal and abnormal haemostasis, measurement of bleeding time. Vascular integrity. Coagulation factors. Assessment of coagulation time. One stage prothrombin time, "Thrombotest". Thromboplastin generation. Haemophilia state, assay of antihemophilic factor (VIII), recalcification time. Fibrinolytic activities, rapid demonstration of fibrinogen deficiency. Simple assessment of fibrinolysis. General principles underlying clotting factor assay and measurement of fibrinolytic activity. Platelet substitute solutions. Fibrin plates. Control of anticoagulant therapy.

**HISTOPATHOLOGY SPECIALITY**

**MLS 551: FUNDAMENTAL HISTOPATHOLOGY 2-0-3 (3 Credits)**

Fixation: Purpose and effect of fixative composition and uses of fixatives and their respective action on tissue components. Microscopic appearance of tissue after various methods of fixation. Function and scope of secondary fixation, post-fixation and post-mordantings. Knowledge of fixation of tissues for histochemical methods to include freeze drying and freeze drying substitutes. Decalcification – processing techniques – paraffin wax, embedding media for mechanical and manual processing. Microtomy-Microtomes (manipulation and uses of rocking, rotary, sledge, freezing, cryostat and ultra microtomes), knives – selection and maintenance for various microtomes, manual and mechanical sharpening. Section cutting (techniques used with different embedding media, attachment of sections to slides-frozen techniques method for rapid diagnosis).

**MLS 552: SYSTEMIC HISTOPATHOLOGY 2-0-3 (3 Credits)**

This course exposes the students more into general pathology, control of results and management of Histopathology laboratory. More facts of electron microscopy and autoradiography are highlighted. Principles of general pathology applied to individual organs. Systemic pathology. Hypertensive heart disease, heart failure and cardiomyopathies. Respiratory – Tuberculosis, pneumonia. Nephropathy associated with infestations and infections. CNS and special senses. Malignant lymphomas (non-Hodgkins and Hodgkins lymphoma, Burkitts). Idiopathic-tropical splenomegaly syndrome. Liver – cirrhosis liver cells carcinoma. Hepatitis. Female reproductive organs – pelvic inflammatory diseases. Cancer-cervical, trophoblast, ovarian. Skin leprosy, Kaposi sarcoma. Electron microscopy – preparation of materials for electron microscopy. Techniques involved in autoradiography, Laboratory Management. Quality control and automation in histopathology laboratory. Slide Reporting.

**MLS 553: HISTOCHEMISTRY AND HISTOLOGICAL TECHNIQUES  
2-0-3 (3 Credits)**

Enzyme histochemistry and its diagnostic application. The theory of stains and application, metallic impregnation and various histochemical methods. The dye theory. Properties of natural and synthetic dyes. Composition, preparation and storage of staining reagents. Testing of reagents. Common nuclear stain and counter stain for general tissue structures. Staining methods to demonstrate elastic, connective tissues and fibers. Toxicity of some reagents used as it applies to auto-radiography, electron microscopy and ultra microtomy. Suitable fixatives for use, processing techniques, impregnation/embedding and slide preparation/interpretation.

**MLS 554: MEDICAL CYTOLOGY 2-0-3 (2 Credits)**

Study of epithelial cells. Introduction/definition of medical exfoliative cytology. Definitions and principle of exfoliative cytological methods. Gynaecological and non-gynaecological cytology. Cytology of normal and malignant cells. Diagnostics criteria for all malignancy. Kinds of tumour. Methods of collection of samples for gynaecological. Types of fixatives used. Staining techniques applied. Hormonal evaluation/interpretations. Principle of liquid basal cytology. Usefulness and advantages, disadvantages and diagnostic application.

**MLS 555: EMBALMENT SCIENCE AND MUSEUM TECHNIQUES 2-0-3 (2 Credits)**

History and science of embalment. Formalin based embalment techniques. Other methods of preservation of dead, cryopreservation (history, procedure and applications) and mummification (history, procedure and applications). Different embalment techniques, importance and application. Factor affecting embalming fluids. Setting up a mortuary/medical museum. Forensic pathology as it applies to post-mortem examination, recording of pathological changes of organs and collection of clinical data during autopsy especially as it relates to drowning, poisoning, strangulation etc. Practical based on the above topics are advised. Dogs/goats can be used for practical exercise.

**MLS 556: IMMUNOHISTOCHEMISTRY 2-0-3 (2 Credits)**

Immunohistochemistry/immunocytochemistry, basic principles, staining procedures and techniques. Peroxidase and anti-peroxidase. Major histocompatibility. Immunotyping of tumours, proteins and other diseases. Antibody and antigen preparation from cells and tissues. Human leucocytes antigen. Reading and interpretation of immunohistochemical/immunocytological stains.

**MLS 557: STAINS AND STAINING TECHNIQUES 2-0-3 (2 Credits)**

Rapid H&E Frozen section, Gram techniques. Maccivello techniques, phloxine, tetrazine, Ziehl Nelson, Perl's Prussian Blue, Schmorl's reaction, Masson Fontana, Feulgen Reactions, Giemsa, H&E, Gordon and Sweets, Haem Van Gieson, P.A.S., Jone's Mathenamine Silver, Congo Red, Verhoeff's MSB, PAS/Orange G. Aldehyde fuchsin, Heidenhains iron haem, P.T.AiH., -Aldan blue/PAS, Best's Kossa, Oil Red O., Nile Bule Method. Bieschosky's method, Marslcind, Glee's method, Papannicolaou, Barr body count, Hormonal Evalaution Gynae.

**MEDICAL MICROBIOLOGY**

**MLS 561: SYSTEMIC BACERIOLOGY 2-0-3 (3 Credits)**

Principle of bacterial infection and pathogenesis. Biological and clinical basis of infectious diseases. Clinical and diagnostic microbiological considerations of diseases of upper respiratory, lower respiratory, genitourinary and intestinal tracts, central nervous system, cutaneous, vascular and other systemic organs. Definition, assessment, epidemiology and control of hospital infections.

**MLS 562: ADVANCED ENTOMOLOGY 2-0-3 (3 Credits)**

Structure and classification of arthropods of medical importance. Diptera: Families – Culicidae, Psychodidae, Simuliidae, Ceratopogonidae, Tabanidae, Muscidae, Calliphoridae, Oestridae, Hemiptera: Families – Cimicidae, Reduviidae. Anoplura: Family – Pediculidae. Siphonaptera: Families – Phlebotomidae, Ceratophyllidae, Leptosyllidae, Tingidae. Acarina: Families – Ixodidae, Argasidae, Trombiculidae, Sarcoptidae, Demodicidae, Dermanyssidae, Porocephalidae, Linguatulidae.

**Special Topics:**

The epidemiology and geographical distribution of human diseases. Larval migrants. Group Spirochaetacea, Immune reactions (Serology).

**MLS 563: PUBLIC HEALTH MICROBIOLOGY 2-0-2 (2 Credits)**

General principles of microbial disease transmission – waterborne, airborne, foodborne, arthropodborne and contagious diseases. Principles and techniques for water treatment, waste-water disposal. Preventive measures in the control of bacterial, parasitic and viral infections. Vaccines and immunization. Immunization programme and schedule (EPI).

**MLS 564: MEDICAL MYCOLOGY 203 (3 Credits)**

General characteristics of fungi's diseases, types of mycoses and properties; opportunistic fungi, Diagnosis and chemotherapy, Systemic mycoses (Cryptococcosis, Blastomycoses, Histoplasmosis, Coccidioidomycoses). Opportunistic mycoses (Candidiasis, Phycomycoses, Sporotrichoses, Chromoblastomycosis, etc). Cutaneous mycoses – Dermatophytoses. Superficial mycoses. General properties, Pathogenesis, diagnosis, epidemiology, control and recognition of fungi.

**MLS 565: MEDICAL VIROLOGY 2-2-0 (3 Credits)**

The dermatropic and viscerotropic viruses. Smallpox, cowpox and vaccination; measles, rubella, chickenpox, and shingles. Herpes viruses, Yellow fever, Lassa fever, Hepatitis A, B and C, Influenza, Arboviruses. The Neurotropic viruses (Rabies, Poliomyelitis, Encephalitis, Lymphocytic Choriomeningitis Viruses, Mumps, Viral transformation, types of tumours and viruses. Oncogen theory etc. Viral gastroenteritis. Miscellaneous viruses, Vaccines production and immunization.

**MLS 566: PHARMACEUTICAL MICROBIOLOGY AND MICROBIAL GENETICS 2-0-3 (3 Credits)**

Principle of antibiotics and chemotherapy. Mode of bacterial resistance to antibiotics. Sensitivity testing. Preparation of antibiogram discs. Minimum inhibitory concentration of antibiotics. History of antibiotics, mode of action, classification, antibiotic assay, use of animal mode in the study of microbial infections. Evolution and inheritance mutation. Bacterial DNA in hereditary and mutation, Molecular basis of mutation, Isolation of mutants, Bacteriophages, Plasmids, Episomes, Transposons and bacterial DNA transfer. Recombinant DNA Technology and its applications.

**MLS 567: LABORATORY TECHNIQUES IN MICROBIOLOGY 2-0-3 (3 Credits)**

Culture media (Different types, compounding from basic constituent and preparation of media). Examination, cultivation and identification of bacteria from different samples: Pleural, CSF, Urine, Sputum, Ascitic fluid. Blood culture, High vaginal swab, wound swabs, ear, eye, nasal and other swabs. Stool bacteriology, Sputum bacteriology, Urine bacteriology.

Systemic fungi culture and identification. Semen analysis. Special – serological tests. ASO, Widal, VDRL, Rheumatoid factor. Complement fixation, Neutralization, Haemagglutination tests for identification of microorganisms. General identification of microorganisms by animal inoculation. Biochemical tests for the identification of bacteria and fungi.

## **THE ROLE OF MEDICAL LABORATORY SCIENCE COUNCIL OF NIGERIA**

The Medical Laboratory Science Council of Nigeria (*MLSCN*) is a federal government regulatory agency established to regulate the Practice of Medical Laboratory Science in Nigeria. The council is fully committed to its mission to be a renowned regulatory agency in the strengthening of health laboratory systems and professional practice for quality services through strategic regulations, accreditation and licensing. The council by tradition or convention through the ages, has assumed the responsibility of maintaining and constantly enhancing the standard of medical laboratory service provided to the public by the profession as well as protecting the profession from unwarranted encroachment by charlatans and quacks.

## **CODE OF CONDUCT IN MEDICAL LABORATORY SCIENCE PRACTICE**

- a. To exercise professional knowledge and skill with judgment and care for the benefit of the wider general public and in the best interest of the users of the service.
- b. To demonstrate the highest standards of conduct, honesty and integrity in personal and professional behaviour.
- c. To understand, recognize and work within the limits of professional knowledge, skills and experience.
- d. To recognize the beliefs and values of the wider general public, the users of the service and professional colleagues, treating them on a fair and equitable basis.
- e. To ensure the confidentiality of patients' information.
- f. To ensure that personal beliefs and values do not prejudice or compromise ones' ability to carry out ones professional roles and duties.
- g. To maintain, improve and keep up to date one's professional knowledge and skills.
- h. To aid and support the development of Medical Laboratory Science by education or training of professional colleagues, the users of the service and the wider general public.
- i. To promote the study and activity of Medical Laboratory Science by promotion of the values, aims and objectives of the Medical Laboratory Science Council of Nigeria.

- j. To show due respect and gratitude to one's teachers, maintain friendly relations with colleagues and whenever possible, endeavour to teach students under one's care. placed

### **SOME EQUIPMENT IN MEDICAL LABORATORY SCIENCE PRACTICE**



### **SOME RECOMMENDED TEXTBOOKS**

1. Baker, F. J., Silvertown, R. E. and Pallister, C. J. (2001). Introduction to Medical Laboratory Technology, seventh edition.
2. Cheesbrough, M. (2002): Cheesbrough, M. (ed.). District Laboratory Practice in Tropical Countries, Part 1 & 2
3. Dacie, J. and Lewis, O. (2006) Practical Hematology. 8th Edition, Churchill Livingstone, London.
4. Lewis, S. M. (2006). Lewis, S.M., Brain, B.J. and Bates, I. (ed.s). Dacie and Lewis practical haematology 10th ed. Churchill Livingstone. Elsevier, Philadelphia, USA. Pp 595- 607.

5. Ochei, J., Kolhatkar, A. (2006). Ochei J and Kolhatkar A (eds.). Theory and Practice of Medical Laboratory Science. Tata McGraw- Hill publishing Company Limited, New Delhi.
6. Baltimore Biological Laboratories (BBL) (2001). Rhode, P.A., Ed., BBL Manual of Products and Laboratory Procedures. 5th Edition, Baltimore.
7. Trease, G. E., Evans, M. D. (1989). "A Textbook of Pharmacognosy". Builler Tindall and Caussel London, 13th edn.
8. Buchanan, R. E., Gibbons, N. E. (1974). Bergey's Manual of Determinative Bacteriology (8th edition). Williams & Wilkins Co. Baltimore USA.
9. Cowan, S. T., Steel, K. J. (1985). "Antibiotic sensitivity" In: Cowan and Steel's Manual for Identification. Cambridge University Press London New York.
10. Institute for Laboratory Animal Research (ILAR) (1996). "Guide for the Care and Use of Laboratory Animals in Biomedical and Behavioral Research" In: Veterinary-Medical Care Manual. Institute for Laboratory Animal Research, American Academy of Sciences, Washington.
11. Smith, G. (2010). Problem Solving in Haematology. Clinical Publishing, Atlas Medical Publishing Ltd Oxford Centre for Innovation Mill Street, Oxford OX2 0JX, UK.
12. Odu, E. N. and Ihejiamazu, E. (2001). Statistic and Basic Research Methods in Education and Social sciences. University of Calabar Press.
13. Anatomy and Physiology by Ross and Wilson, Latest Ed.
14. ABC of Clinical Haematology (2007). Edited by Drew Provan, 3<sup>rd</sup> Ed., Black well Publishing.
15. Leonard R. J. (2003). Essential Medical Physiology 3<sup>rd</sup> Edition.
16. Kim, E. B., Scott, B., Susan, M. B. and Heddwen, L. B. (2010). Ganong's Review of Medical Physiology. 23<sup>rd</sup> Edition. The McGraw-Hill Companies, Inc.
17. Guyton, A. C. and Hall, J. E. (2006). Text Book of Medical Physiology 11<sup>th</sup> Edition. Elsevier Inc.
18. Rodney, A. R. and George, A. T. (2004). Medical Physiology Text Book. Lippincott Williams & Wilkins , 2nd edition.
19. Gabriel, V. (1998). Introduction to Medical Immunology. 4<sup>th</sup> Edition, Edited by Gabriel, V. Medical University of South Carolina Charleston, South Carolina. MARCEL DEKKER, INC.
20. DAIDS (2013). Guidelines for Good Clinical Laboratory Practice Standards.
21. World Health Organization (2011). Laboratory Quality Management System Handbook.
22. Laboratory Logistics Handbook (2009). A Guide to Designing and Managing Laboratory Logistics Systems.
23. Dawit, A., Ephrem, K., Nagesh, S., Solomon, G., Fetene, D. and Jemal, A. (2004). Medical Parasitology Textbook.
24. Stephen H. Gillespie and Peter M. Hawkey (2006). Principles and Practice of Clinical Bacteriology 2<sup>nd</sup> Edition. University of Birmingham, Birmingham, UK. John Wiley & Sons Ltd, The Atrium, Southern Gate, Chichester, West Sussex PO19 8SQ, England.
25. Abilo, T. and Meseret, A. (2006). Medical Bacteriology. University of Gondar.
26. Abdelraouf, A. E. (2007). Diagnostic Medical Microbiology Laboratory Manual. Islamic University-Gaza.
27. Moselio, S. (2004). The Desk Encyclopaedia of Microbiology. Elsevier Academic Press. 84 Theobald's Road, London WC1X 8RR, UK.
28. Peter, L. (2011). Basic bacteriology. Aston University, Birmingham, UK. Blackwell Publishing Ltd.



29. Peter, L. C., Anthony, H. M. and David, W. M. (2003). Atlas of Medical Helminthology and Protozoology. Elsevier Science Limited.
30. Avwioro, O.G. (2002). Histochemistry and tissue pathology, Claverianum press, Nigeria.
31. Adeosun OG, Onyije FM (2010). Textbook of Histochemistry. In Avwioro OG, 2nd ed. Nigeria: Delta University Press.
32. Martin, A. C. Book Power: Clinical Chemistry and Metabolic Medicine (8<sup>th</sup> edition).
33. Carl, A. B. and David E.B. (2008). Tietz Fundamentals of Clinical Chemistry (6<sup>th</sup> edition). Saunders.
34. Carl, A. B. and David E.B. (2011). Tietz Textbook of Clinical Chemistry and Molecular Diagnostics (5<sup>th</sup> edition). Saunders.
35. Roger, H. and Robert M. Medical Laboratory Haematology. Butterworth & CO.
36. Harvey C. and David A. Blood Transfusion in Clinical Medicine. Blackwell Publishing.

**Compiled by**

Department of Medical Laboratory Science  
School of Basic Medical Sciences  
College of Health Sciences  
Igbinedion University Okada

## Curriculum of School of Clinical Medicine

### OFFICE OF DEAN, SCHOOL OF CLINICAL MEDICINE

S/NO	NAME	QUALIFICATION	RANK	STATUS
1	Professor Bazuaye G.N.	MB.BS (1993); FMCPATH (2002). Cert. Stem Cell Transplant (Basel Switzerland) 2010	Professor, Dean	FT
2	Dr. A.A. Uduoise	MB.BS; (1992) FWACS (2004)	Lecturer I Sub-Dean	FT
3	Miss. Joy Pearl Idehen	Dip. Bus. Mgt (AAU) 1998; BSc. Bus. Admin (AAU) 2002		FT
4	John Ohiokhuaobo Aigbokhaode	HND, Business Admin. 1994; PGD Bus. Admin 1997; 50/100 WPM Typewriting/Shorthand 1994; Computer Literate Certificate 2000	Principal Confidential Secretary II	FT
5	Ujeh Williams Dele	FSLC. SSCE, Trade Test Cert, Grade I, II&III	Driver	FT
6	Miss. Omale Mary	FSLC	Cleaner	FT
7.	Owie Felix	FSLC	Driver	FT

#### **HEADS OF DEPARTMENT**

- |                                       |                     |
|---------------------------------------|---------------------|
| 1. Anaesthesia                        | Dr. G.O. Iyasere    |
| 2. Community Medicine                 | Dr. A Labiran       |
| 3. Medicine                           | Prof. V.A Josephs   |
| 4. Obstetrics &Gynaecology            | Prof. J.A. Unuigbe  |
| 5. Paediatrics                        | Dr. D.O. Osaghae    |
| 6. Surgery                            | Prof. L.C. Chiedozi |
| 7. Pharmacology                       | Dr. J.C. Nwanze     |
| 8. Morbid Anatomy                     | Dr. F. Nwachokor    |
| 9. Chemical Pathology                 |                     |
| 10. Haematology and Blood Transfusion | Prof. Bazuaye G.N.  |
| 11. Radiology                         | Prof. T.T. Marchie  |
| 12. Medical Microbiology              | Prof. M.I. Agba     |

## Department of Anaesthesia

### **UNDERGRADUATE COURSE IN ANAESTHESIA**

#### **OBJECTIVES**

The undergraduate course in Anaesthesia is aimed at teaching the students basic principles in Anaesthesia and resuscitation (Life Saving Procedures). This takes into consideration the acute shortage of Anaesthetists in the country and the need for general doctors to be equipped with basic principles in anaesthesia and resuscitation. This makes it possible for doctors working alone in remote areas to be able to cope with simple requirements in anaesthesia and resuscitation. The course also takes into consideration the fact that a good part of modern anaesthesia incorporates basic principles in health care fundamental to the safe practice of medicine. The course is given in the 5<sup>th</sup> year of training i.e. in the 2<sup>nd</sup> clinical year (500 level courses) and covers a period of posting of 8 weeks, which the student spends entirely in the department of anaesthesia. While the theoretical background of anaesthesia is taught, greater emphasis is placed on practical teaching to give the students the opportunity to acquire basic and essential skills in anaesthesia and resuscitation.

#### **DETAILS OF DEPARTMENTAL OBJECTIVES:**

- A. To have a sound knowledge of and enumerate the general principles of OPERATIVE ANAESTHESIA.
- B. To have a sound knowledge of and recognize pharmacological action of drugs used in anaesthesia, analgesia and life support.
- C. To enumerate the physiology of PAIN and PAIN RELIEF.  
Anatomical pathways of central and peripheral nerve in relation to pain.
- D. To be able to perform some regional and local ANAESTHETIC TECHNIQUES.
- E. To be able to give GENERAL ANAESTHETICS FOR MINOR SURGICAL PROCEDURES IN THEATRE AND IN ABNORMAL ENVIRONMENT.
- F. Basic training, acquiring knowledge to perform LIFE SAVING PROCEDURES.
  - i. To be able to recognize, describe and manage respiration insufficiency and arrest.
  - ii. To be able to recognize, describe and manage circulatory insufficiency and cardiac arrest.
  - iii. To be able to recognize, describe and manage the unconscious patient.

#### **COURSE DESCRIPTION**

<b>CODE</b>	<b>COURSE TITLE</b>	<b>UNIT</b>	<b>STATUS</b>	<b>HOURS</b>
ANAE 501	Outline of course short history of anaesthesia. General Principle of Anaesthesia	1	C	2
ANAE 502	Airway Management Anatomy of Airways Causes, Diagnosis and consequences of Obstruction Methods of securing and Maintaining the airways	1	C	4
ANAE 503	Physics applied to anaesthesia, Storage of gases Principles of anaesthetic machines	1	C	2

ANAE 504	Diagnosis and management of respiratory insufficiency Clinical features Laboratory investigations Management, Tracheostomy and management	1	C	4
ANAE 505	Performance of some local and regional anaesthetic techniques	1	C	4
ANAE 506	Diagnosis and management of circulatory insufficiency Physiology of cardiac output Blood Pressure, venous pressure Factors affecting; Shock	1	C	4
ANAE 507	Performance of General Anaesthesia minor surgical procedure, including relaxation techniques	1	C	4
ANAE 508	The unconscious patient Delayed return of consciousness after anaesthesia – coma states Management of patient Cerebral function monitoring Brain death, diagnosis, investigation The intensive care	1	C	2
ANAE 509	Trauma and Accident, Disasters Anaesthesia in abnormal environment Emergency anaesthesia	1	C	2
ANAE 510	Operative Anaesthesia Patient preparation Choice of Anaesthesia Induction and management of anaesthesia Techniques of anaesthesia Effect of anaesthesia on some disease state Obstetric anaesthesia Record keeping	1	C	4
ANAE 511	Pain and Pain relief Anatomy of pain centers and peripheral distribution postoperative pain relief	1	C	2
ANAE 512	Use and action of common anaesthetic drugs Premedication drugs General anaesthetic agents: induction, inhalational, maintenance Local anaesthetic drug Drug interaction	2	C	3
ANAE 513	Practical demonstration CPR Monitors Ventilators Laboratory investigations in anaesthesia			4

## **COURSE DESCRIPTION**

1. Anaesthetic techniques: General anaesthesia, inhalational and intravenous methods.
2. Anaesthetic techniques. Principles and uses of anaesthetic equipment and system.
3. Choice of anaesthetic method and technique.
4. Postoperative management and intensive care.
5. Cardio-pulmonary arrest and resuscitation (incl. film show).

### **PROGRAMME OF CLINICAL TRAINING 500 LEVEL MEDICAL STUDENTS**

**MONDAY – FRIDAY**      8.30 a.m. – 1<sup>ST</sup> DAY: Registration in Department  
 Outline of Course  
 Short history of Anaesthesia  
 Anaesthetic record booklet.

9-11a.m. – Lecture  
 11-1p.m. – Theatres (in groups)

#### **STUDENT PERFORMANCE**

#### **NO REQUIRED**

Vein cannulation	5
Intubation	3
Epidural/Spinal	3
General Anaesthesia	5
Regional Anaesthesia	5
Emergencies	5

Assembling a laryngoscope  
 Checking anaesthetic machine

2 tutorials are given per week and the students are taken on pre-operative ward rounds twice a week.

#### **RECOMMENDED BOOKS**

Oduntan S.A. Anaesthesia for medical students.

Famewo C.E. Lecture notes in anaesthesia and intensive care for medical students and practitioners.

## **Department of Community Medicine**

### **COMMUNITY MEDICINE CURRICULUM FOR THE MBBS PROGRAMME**

#### **1. AIMS AND OBJECTIVES OF THE TEACHING OF COMMUNITY MEDICINE**

At the end of their training in Community Medicine, the doctors should be able to:-

- (a) know the concept of Community Medicine and its relevance in Nigeria health care system;
- (b) make community diagnosis;
- (c) carry out epidemiological studies to identify prevalent health problems in the community and determine the effective means of alleviating them;
- (d) know how to plan, organize and evaluate appropriate health programmes;
- (e) seek and mobilize resources for health care management;
- (f) develop the spirit of team work among the members of the health team;
- (g) exhibit the highest principle of medical ethics in the promotion of health.

In addition, the Primary Health Care training aims at enabling the doctor to possess the knowledge, attitude, and skills to:-

- (a) diagnose the health problem of a community;
- (b) develop a primary Health Care Plan for the defined community;
- (c) deliver the component services of Primary Health Care;
- (d) provide essential curative care for common conditions at the level of Primary Health Care Clinic in a defined community;
- (e) provide immunisation services to a defined community;
- (f) provide maternal health services, and family planning to a defined Community;
- (g) provide health education to individual and the community;
- (h) identify and provide solutions to the problems of environmental sanitation
- (i) describe the epidemiology of local endemic diseases and provide appropriate prevention and curative services for defined community;
- (j) manage, monitor and evaluate the implementation of Primary Health Care services for a community;
- (k) Implement appropriate training programmes for health personnel and members of the community for delivery of Primary Health Care Services.

#### **II. TRAINING METHODS**

- (a) Didactic lectures
- (b) Tutorials and Discussions
- (c) Seminars
- (d) Field visits to places of Public Health importance including health-related Institutions and industries
- (e) Clinical practice e.g. Clinics for Endemic Diseases; Sexually Transmitted Diseases, Staff Clinics
- (f) Project supervision.

<b>III. COURSES</b>	<b>PERIOD</b>
<b>INTRODUCTION TO COMMUNITY MEDICINE – COM 201 (200 LEVEL)</b>	
Definition and Sub-Specialties in Community Medicine	Tuesday 11 -1p.m.
The Role of the Community Health Physician	Thursday 11-1p.m.
The Doctors Role in Health Promotion and Protection	Tuesday 11-1p.m.
Behavioural and Non-Behavioural Factors in Health and Disease	Thursday 11-1p.m.
History of Medicine	Tuesday 11-1p.m.

<b>DEMOGRAPHY – COM 202</b>	<b>PERIOD</b>
Demography – Definition Uses	Tuesday 11-1p.m.
Population Composition – Age, Sex, Occupation, Ethnicity etc	Thursday 11 -1p.m.
Population Dynamics (Fertility, Mortality, Migration, Population Structure, Growth and Projection)	Tuesday 11 -1p.m.
Sources of Population Data; Sources of Health and Vital Statistics, Cancer Registration	Thursday 11 -1p.m.
Demographic Transition; Malthusian Theory of Population	Tuesday 11 – 1p.m.
Census – National and Local	Thursday 11 – 1p.m.
World Population and Policy; The National Population Policy	Tuesday 11 - 1p.m.
Interaction Between Medical Action, Population, Health and Population Growth;	Thursday 11-1p.m.
Measurements of Health and Disease; Different Rates and their Uses	Tuesday 11-1p.m.
Standardisation of Vital Rates	Thursday 11-1p.m.

<b>MEDICAL STATISTICS – COM 203</b>	<b>PERIOD</b>
Introduction to Statistics	Tuesday 11 -1p.m.
Types of Data Types of Variables ; Types of Distribution	Thursday 11 -1p.m.
Sources of Data Tools for Data Collection	Tuesday 11 -1 p.m.
Scales of Measurement	Thursday 11-1p.m.
Diagrammatic Presentation of Statistical Data – Histograms, Pie and Bar Charts, Graphs, Pictogram etc.	Tuesday 11 -1p.m.
Numerical Presentation of Statistical Data – Measures of Central Tendency and Location;	Thursday 11-1ip.m.
Measures of Dispersion; Tables; etc	Tuesday 11-1p.m.
Population, Samples and Sampling Techniques	Thursday 11-1p.m.
Probability Theory	Tuesday 11 –1p.m.
Estimating Population Values	Thursday 11 – 1p.m.
Inferential Statistics; The Standard Normal Curve	Tuesday 11 –1p.m.
Standard errors; Confidence Intervals	Thursday 11 -1p.m.
Tests of Significance –Z- Test; t-Test; Chi-Square Test	Tuesday 11-1p.m.
Association Correlation and Regression	Thursday 11-1p.m.
Uses of Statistics	Tuesday 11 – 1p.m.

<b>MEDICAL SOCIOLOGY AND ANTHROPOLOGY – COM 204</b>	<b>PERIOD</b>
Introduction to Medical Sociology	Tuesday 11 -1p.m.
Definition of Health, Disease, Sickness, Illness	Thursday 11 – 1p.m.
Socialisation; Role Differentiation	Tuesday 11 – 1p.m.
Beliefs, Values, Norms, Superstitions, Taboos etc.	Thursday 11 – 1p.m.
Human Organisations and Systems; Family Systems, Marriage Types and Stability	Tuesday 11 – 1p.m.
Type of Societies; Social Classification	Thursday 11 – 1p.m.
Culture and Health – Beneficial, Harmful and Neutral Practices	Tuesday 11 -1p.m.
Religion and Health	Thursday 11 -1p.m.
Socio-Economic Status and Health	Tuesday 11 – 1p.m.
Educational Status and Health	Thursday 11 – 1p.m.
Traditional and Modern Health Systems	Tuesday 11 – 1p.m.
Recreation, Sleep	Thursday 11 – 1p.m.
Health Behaviour and Illness Behaviour	Tuesday 11 – 1p.m.
Doctor/Patient Relationship	Thursday 11 – 1p.m.
Working Population, Unemployment, Retirement	Tuesday 11 – 1p.m.
Dependency; Social Security	Thursday 11 -1p.m.
Social Deviance; Alcoholism; Drug Abuse; Smoking	Tuesday 11 - 1p.m.

<b>SOCIAL MEDICINE – COM 205</b>	<b>PERIOD</b>
Introduction to Social Medicine	Tuesday 11 – 1p.m.
The Underprivileged in the Society	Thursday 11- 1p.m.
Disability, Handicap, Impairment Classification and Causes of Handicaps	Tuesday 11 – 1p.m.
Problems of the Aged	Thursday 11 -1p.m.
Social Welfare Services in Nigeria and Other Countries; Care of the Handicapped:	Tuesday 11 – 1.p.m.
Orphanages; Old Peoples Home; Remand Homes; Prisons	Thursday 11 – 1p.m.
Voluntary Agencies	Tuesday 11 – 1p.m.

<b>HUMAN ECOLOGY – COM 301 (300 LEVEL)</b>	<b>PERIOD</b>
Components of the Environment – Biological Physical and Social Ecological Concepts	Tuesday 11 – 1 p.m.
Man’s Interaction with the Environment; Adaptation Process; Balance and Change	Wednesday 11 -1p.m.
Socioeconomic Activities and the Human Environment – Deforestation, Irrigation, Dams, Industrialisation, etc.	Thursday 11 – 1p.m.
The Petroleum Industry and the Niger Delta	Tuesday 11 – 1p.m.
The Ozone Layer Green House Cases	Wednesday 11 – 1p.m.
<b>ENVIRONMENTAL HEALTH – COM 302</b>	
Introduction to Environmental Health	Thursday 11 – 1p.m
Environmental Sanitation and its Components	Tuesday 11 – 1p.m.
Water and Health, Source of Water, Uses of Water	Tuesday 11 – 1p.m.
Examination of Water, Purification of Water, Water Supply	Wednesday 11 – 1pm.
WHO Water Programmes	Thursday 11 – 1pm.



Food Hygiene: Safe Guarding of Food	Tuesday 11 – 1pm.
Housing and Health	Wednesday 11 – 1pm.
Disposal of Wastes- Sewage and Refuse, Disposal of the dead	Thursday 11 – 1pm.
Control of Vectors: Other Pests and Animal Reservoirs of infection	Tuesday 11 – 1pm.
Insecticides of Public Health Importance	Wednesday 11 – 1pm
Air Hygiene and Prevention of Atmospheric pollution	Thursday 11 – 1pm.
Legislation and Environmental Health – Public Health Laws	Tuesday 11 – 1pm.
Accidents – RTA and Home Accidents	Wednesday 11 – 1pm.
Disaster Management; Refugees	Thursday 11 – 1pm.

<b>FAMILY/REPRODUCTIVE HEALTH – COM 303</b>	<b>PERIOD</b>
Introduction to Family Health; Concept, Components and Objectives	Tuesday 11 – 1pm.
Measurements in family Health	Wednesday 11 – 1pm.
Health Problems and Health Needs of Mothers and Children	Thursday 11 – 1pm.
Determinants of Health of Mothers and Children	Tuesday 11 – 1pm.
Family Health Practice; maternal Health care Services, infant Welfare Clinic	Wednesday 11 – 1pm.
Organisation and Evaluation of Family Health Programmes	Thursday 11 – 1pm
Immunisation Programmes	Tuesday 11 – 1pm.
Population Dynamics and Family Planning	Wednesday 11 – 1pm.
The “ At Risk “ Concept in MCH	Thursday 11 – 1pm.
Safe Motherhood Initiative	Tuesday 11 – 1pm.
Integrated Management of Childhood illnesses (IMCI)	Wednesday 11 – 1pm.

<b>SCHOOL HEALTH – 304</b>	<b>PERIOD</b>
School Health – Aims and Objectives	Thursday 11 – 1pm.
The School Health Programmes	Tuesday 11 – 1pm

<b>NUTRITION AND APPLIED DIETETICS – COM 305</b>	<b>PERIOD</b>
Nutrition and Health	Wednesday 11 – 1pm.
Classification of food	Thursday 11 – 1pm.
Nutritional Values of Common Nigerian Foodstuffs	Tuesday 11 – 1pm.
Culture and Nutrition; Beliefs and Taboos	Wednesday 11 – 1pm.
Infection and Nutrition	Thursday 11 – 1pm.
Breastfeeding	Tuesday 11 – 1pm.
Weaning Practices	Wednesday 11 – 1pm.
Food Policy	Thursday 11 – 1pm.
The National Breast Feeding Policy	Tuesday 11 – 1pm.
Food Hygiene and Toxicology	Wednesday 11 – 1pm.
Nutrition Education	Thursday 11 – 1pm.
Applied Dietetics I – Diet in the Aetiology and Management of Diseases (Kwashiorkor, Marasmus, Vitamin Deficiencies, Mineral Deficiencies, Obesity, Hypervitaminoses, etc)	Tuesday 11 – 1pm.
Applied Dietetics II – Diet in the aetiology and management of Diseases,(Diabetes Essential Hypertension, Coronary Heart	Wednesday 11 – 1pm.

disease, Liver failure, Goitre, Myxoedema, Cretinism, Dental Caries, anaemia)	
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<b>HEALTH EDUCATION – 401</b>	<b>PERIOD</b>
Health Education Principles; Methods and Strategies	Tuesday 11 – 1pm.
Health Education in the Control of Communicable and Non-Communicable diseases	Thursday 11 – 1pm.

<b>OCCUPATIONAL HEALTH – 402</b>	<b>PERIOD</b>
Introduction to Occupational health, Aims and Objectives	Tuesday 11 – 1pm.
Occupational Health, Hazards and their Control	Thursday 11 – 1pm.
The Environment of Working Places	Tuesday 11 – 1pm.
Occupational health Services	Thursday 11 – 1pm.
Fate of Inhaled Aerosol	Tuesday 11 – 1pm.
Pneumoconiosis	Thursday 11 – 1pm.
Hazards of Radiation	Tuesday 11 – 1pm.
Hazards of Various Occupations – Petroleum, Butchers, Bottling, Executives, Agriculture Occupational Cancers	Thursday 11 – 1pm.
Occupational Cancers	Tuesday 11 – 1pm.
Environmental & biological Monitoring	Thursday 11 – 1pm.
Industrial Medical Examination	Tuesday 11 – 1pm.
Industrial Health Notification, Notifiable Diseases	Thursday 11 – 1pm.
Industrial Legislation – Factory Act, Workman’s Compensation Act	Tuesday 11 – 1pm.
Industrial Rehabilitation	Thursday 11 – 1pm.
National and Internal Health Regulations Relating to Occupational Health	Tuesday 11 – 1pm.

<b>PRINCIPLES OF EPIDEMIOLOGY AND DISEASE CONTROL – COM 403</b>	<b>PERIOD</b>
Epidemiology: Definition, History	Tuesday 11 – 1pm.
Disease Distribution, Disease Determinants: Biological, Behavioural, Social, etc	Thursday 11 – 1pm.
Infective Agents: Reservoir of Infection	Tuesday 11 – 1pm.
Transmission of Communicable Diseases	Thursday 11- 1pm.
Host Factors	Tuesday 11 – 1pm.
Risk Factors in Epidemiology of Communicable and Non-Communicable Diseases	Thursday 11- 1pm.
Epidemiological Methods: Epidemiological Tools – Rates (Crude and Specific), Ratios, Percentages, etc	Tuesday 11 – 1pm.
Epidemiological Methods: Epidemiological Studies	Thursday 11 – 1pm.
Health Management Information System: Disease Surveillance and Notification	Tuesday 11 – 1pm.
Screening and Screening Tests	Thursday 11 – 1pm.
Uses of Epidemiology	Tuesday 11 – 1pm.
Principles of disease Control	Thursday 11 – 1pm.
Levels of Prevention	Tuesday 11 – 1pm.
Epidemiological Transition	Thursday 11- 1pm.

<b>EPIDEMIOLOGY AND CONTROL OF COMMUNICABLE DISEASES – COM 404</b>	<b>PERIOD</b>
Epid and control of communicable Diseases According to their Routes of Transmission	Tuesday 11 – 1pm.
Epid and Control of Viral Infections (Poliomyelitis, HIV/AIDS, Viral Hepatitis A-G, Yellow Fever, Chickenpox, Lassa Fever, Ebola, Exotic Diseases, Rabies, Measles, Rubella, Mumps, Viral RTIs)	Thursday 11 – 1pm.
Epid and Control of Bacterial Infections (Tb, Leprosy, Enteric, Bacillary Dysentery, Cholera, Bacterial Food Poisoning, Tetanus, Bacterial Pneumonia, Meningococcal, Infections, Rheumatic Fever Pertussis, Diphtheria, Plague, Anthrax, Chlamydial Infections)	Tuesday 11 – 1pm
Epid and Control of Protozoal Infections (Malaria, Amoebiasis, Giardiasis, Trichomoniasis, Trypanosomiasis.	Thursday 11 – 1pm.
Epid and Control of Fungal Infections (Superficial Fungal Infections, Candidiasis,	Tuesday 11 – 1pm.
Epid and Control of Helminthic Infections (Ascariasis, Trichuriasis, Enterobais, Visceral, Larva Migrans, Cutaneous Larva Migrans, Dracontiasis, Taeniasis, Taeniosis, Hydatid Disease, Fascioliasis, Hookworm, Schistosomiasis, Stroglyoidiasis, Bancroftian and Malaysian Filariasis, Loaiasis, Onchocerciasis,)	Thursday 11- 1pm.
Epid and Control of Arthropod Infections (Scabies, Lice, Ticks, Mites)	Tuesday 11 – 1pm.
Epid and Control of Special Group of Communicable Diseases – STI s, Zoonoses, Diarrhoeal Diseases, Emerging and Re-Emerging Infectious Diseases, Hospital Infections	Thursday 11 – 1pm.
Control Programmes for Communicable Diseases in Nigeria	Tuesday 11 – 1pm.

<b>EPIDEMIOLOGY AND CONTROL OF NON-COMMUNICABLE DISEASES – COM 405</b>	<b>PERIOD</b>
Epid and Control of Genetic and Congenital Diseases – Sickle Cell Disease, Down’s Syndrome	Thursday 11 – 1pm
Epid and Control of Juvenile Delinquency	Tuesday 11 – 1pm.
Epid and Control of Asthma and Peptic Ulcer	Thursday 11- 1pm.
Epidemiology and Control of Diabetes (DM, DI), Hypertension, Sickle Cell Disease, Coronary Heart Disease, G6PD Deficiency, Ca Breast, Ca Cervix, Ca Prostate	Tuesday 11 – 1pm.
Control Programmes for Non-Communicable Diseases in Nigeria	Thursday 11 – 1pm.

<b>RESEARCH METHODS AND PROJECT WRITING – COM 501</b>	<b>PERIOD (during posting)</b>
Planning a Research	Tuesday 1 – 3pm.
Ethical Issues in Research	Wednesday 1- 3pm.
Study Designs in medicine and Public Health; Clinical Trials	Wednesday 1 – 3 pm.
Choice of Topic	Tuesday 1 – 3pm.
Introduction (Problem Definition, Objectives)	Wednesday 1 – 3pm.

Literature Search/Literature review	Tuesday 1 – 3pm.
Materials and Methods; Questionnaire Design	Wednesday 1 – 3pm.
Sample Size Determination/Calculation	Tuesday 1 – 3 pm.
Data Collection/Management	Wednesday 1 – 3pm.
Presentation of Results (Data Presentation, Analysis etc)	Thursday 1 – 3pm.
Discussion, Conclusion and Recommendations	Wednesday 1 – 3pm.
References	Thursday 1 – 3pm
Project Write – Up	Wednesday 1 – 3pm.

<b>INTERNATIONAL HEALTH – COM 502</b>	<b>PERIOD</b>
History of International Health	Tuesday 1 – 3pm.
International Health organisations/Agencies, e.g. WHO, UNICEF, UNFPA, FHI etc	Wednesday 1 – 3 pm.
Port Health	Thursday 1 – 3pm
International Notification of Diseases	Wednesday 1 – 3pm.
International Health Regulations	Thursday 1 - 3pm

<b>INTRODUCTION TO HEALTH PLANNING AND MANAGEMENT – COM 503</b>	<b>PERIOD</b>
Concepts: Principles and Functions of Management	Wednesday 1 – 3pm.
Health Services Management – Definition, History, Elements	Thursday 1 – 3pm.
Principles, Scope and Nature of Health Sciences (Levels of Health Care)	Wednesday 1 – 3pm.
Organization of Health Services in Nigeria (Federal, State and LGAs)	Thursday 1 – 3pm.
Comparative Analysis of Health Care Systems in Different Countries	Wednesday 1 – 3pm.
Planning of Health Services (Cybernetic Cycle). Evaluation of Health Services	Thursday 1 – 3pm.
National Health Policy	Wednesday 1 – 3pm.
Management of Human, Material and Financial Resources.	Thursday 1 – 3pm.
The Health Team	Wednesday 1 – 3pm.
Health Economics	Thursday 1 – 3pm.

<b>MEDICAL ETHICS – 504</b>	<b>PERIOD</b>
History and Evaluation of Medical Ethics	Wednesday 1 – 3pm.
International Code of Medical Ethics	Thursday 1 – 3pm.
Duties of Doctors	Wednesday 1 – 3pm.
The Medical and Dental Council of Nigeria	Thursday 1 – 3pm.
Professional Negligence/Responsibility/Confidentiality/Misconduct	Wednesday 1 – 3pm.
Ethics of Medical Research	Thursday 1 – 3pm.
The Doctor and the Law Judicial, Coroner’s Court	Wednesday 1 – 3pm.

**PRIMARY HEALTH CARE – COM 601**

	<b>PERIOD</b>
Definition, History and Elements of Primary Health Care (PHC)	Thursday 4 – 6pm.
Strategies for the Implementation of PHC	Tuesday 4 – 6pm.

Basic Health Services Scheme and PHC Institutions	Thursday 4 – 6pm.
The Medical Officer of Health	Tuesday 4 – 6pm.
Vaccines, Types; the Cold Chain	Thursday 4 – 6pm.
The National Programme on Immunization; Mass Immunization Programmes	Tuesday 4 – 6pm.
The Bamako Initiative	Thursday 4 – 6pm.
Referral System in health Care Delivery	Tuesday 4 – 6pm.
<b>PRINCIPLES OF PRIMARY HEALTH CARE</b>	
Equitable Distribution	Tuesday 4 – 6pm.
Integration of Services	Wednesday 4 – 6pm.
Appropriate Technology	Thursday 4 – 6pm.
Community Participation	Tuesday 4 – 6pm.
Intersectoral Collaboration	Wednesday 4 – 6pm.
<b>COMMUNITY DIAGNOSIS</b>	
The Structure and Functioning of Communities	Tuesday 4 – 6pm.
Methods in Practical Epidemiology	Wednesday 4 – 6pm.
The Conduct of Demographic and Morbidity Surveys in a Defined Community	Thursday 4 – 6pm.
Methods of Informal Data Collection	Tuesday 4 – 6pm.
Health Care Alternatives at the Community Level	Wednesday 4 – 6pm.
<b>HEALTH MANAGEMENT IN PHC</b>	
Identifying and Describing the Health Needs and problems of A Defined Community	Thursday 4 – 6pm.
Establishing Health Priorities for A Defined Community	Tuesday 4 – 6pm.
Setting Goals. Objectives and targets for PHC Services for A Defined Community Formulating A PHC Plan	Wednesday 4 – 6pm.
Drawing up a PHC Budget, Budgeting and Accounts	Thursday 4 – 6 pm.
Organisational Structure of PHC	Tuesday 4 – 6 pm.
Integration of Services for PHC	Wednesday 4 – 6pm.
Management of Staff, Transport, Drugs, Equipment and Supplies in PHC	Thursday 4 – 6 pm.
Basic Operations Analysis Techniques for Monitoring PHC Staff and Service Performance	Thursday 4 – 6pm.
Work Sampling	Tuesday 4 – 6 pm.
Patient Follow-Up	Wednesday 4 – 6pm.
Task Analysis	Thursday 4 – 6pm.
Treatment Audit	Tuesday 4 – 6 pm.
Assessment of PHC Service Coverage with Particular Reference to Availability	Wednesday 4 – 6pm.
Accessibility and Acceptability	Thursday 4 – 6pm.
Effectiveness Efficiency and Equity in PHC Service Delivery	Tuesday 4 – 6pm.
<b>TRAINING</b>	
Principles of Curriculum Development	Wednesday 4 – 6 pm.
Setting Instructional Objectives	Thursday 4 – 6pm.
Drawing Up Lesson Plans	Tuesday 4 – 6pm.
Appropriate Teaching Methods	Wednesday 4 – 6pm.
Assessment of Performance	Thursday 4 – 6pm.
Organising Antenatal Care for Maximum Coverage of the Community	Tuesday 4 – 6pm.

<b>HEALTH EDUCATION</b>	
Identification of Learning Needs	Wednesday 4 – 6pm.
Planning Health Education for Individual Groups and Communities	Thursday 4 – 6 pm.
The Principles of Communication	Tuesday 4 – 6pm.
Selection and Production of Appropriate Audiovisual Aids	Wednesday 4 – 6 pm.
<b>ENVIRONMENTAL SANITATION</b>	
Identification of An Appropriate Water Supply for A Defined Community	Thursday 4 – 6 pm.
Identification of An Appropriate Method of Sanitation for A Defined Community	Tuesday 4 – 6pm.
Promoting Self-Help Projects at the Community Level	Tuesday 4 – 6 pm.
<b>LOCALLY ENDEMIC DISEASES</b>	
The Epidemiology of Locally Endemic Diseases	Wednesday 4 – 6pm.
Appropriate Management and Prevention of Locally Endemic Diseases at the PHC Level	Thursday 4 – 6pm.
<b>ESSENTIAL DRUGS</b>	
The Essential Drugs Approach	Tuesday 4 - 6pm.
The Essential Drugs List for PHC in Nigeria	Wednesday 4 - 6pm.
Estimating the Essential Drug Need of a Defined Community	Thursday 4 – 6pm.
Administering An Essential Drugs Policy in PHC Services for A Defined Community	Tuesday 4 – 6pm.

<b>PROJECT – COM 602</b>	<b>PERIOD</b>
During this course, students will carry out studies based on empirical field research. They will thus be exposed to practical research methods such as the design of medical and public health medicine studies, questionnaire design, data collection, collation, analysis interpretation and reporting.	

<b>COMMUNITY HEALTH POSTING – COM 603 URBAN POSTING (PLACES VISITED)</b>	<b>PERIOD</b>
This consists of lectures and guided visits to various Public Health programme sites, and survey, including the following.	
1. Environmental Health Services including Visits to Water Treatment Works, Sewage Treatment Plants, Markets and Other Food Processing Factories and Abattoirs, Refuse Disposal Systems etc.	
2. Community Welfare Services, Remand Homes, Orphanage Homes, Old People’s Homes.	
3. Schools/Homes for Handicapped Children, Prisons etc.	
4. Public Health Departments: To Familiarise Them with the Activities of the Department.	
5. Maternal and Child Health Services	
6. Public Health Laboratories (including the Testing of Water, etc.)	
7. Communicable Diseases: Tuberculosis Clinics/Wards, the CSSD	
8. Occupational Health Services: Selected Industries.	

9. School Health Unit	
10. Surveys As Designed By the Department	

<b>RURAL POSTING</b>	<b>PERIOD</b>	<b>LECTURERS</b>
This involves residence in rural communities to allow for practical experience in at least the following		All staff
1. Community entry and advocacy		= do =
2. Environmental Health		= do =
3. Health Education		= do =
4. Family Health		= do =
5. Curative Services		= do =
6. Control of common communicable diseases		= do =
7. Promotion of relevant data and evaluation of programmes		= do =
8. Promotion of nutrition		= do =
9. Home visiting		= do =
10. Training and supervision of auxiliaries and other health professionals.		= do =
11. Surveys As Designed By the Department		= do =

## **Department of Chemical Pathology**

### **INTRODUCTION**

The department of Chemical Pathology in the University formally came into existence in 2001/2002 session as an independent and autonomous department within the College of Health Sciences and as an integral part of the School of Clinical Medicine. Chemical Pathology is one of the five independent departments created in the Sciences of Pathology complex.

## ***AIMS AND OBJECTIVES***

The aims and objectives of the course are:

1. To enable medical students and other students in CHS acquire theoretical and practical knowledge and skills in the application and practice of chemical pathology in clinical medicine.
2. To provide a course of programmes which enables students to recognize and describe the biochemical derangements in disease associated with abnormalities in metabolism of body constituents.
3. To enable students to understand the principles of laboratory investigations and interpretation of results of biochemical investigations in order to clarify or establish diagnosis.
4. To provide diagnostic laboratory services to the Igbinedion University Teaching Hospital (IUTH) for patients care.

## ***SYLLABUS: COURSE CODES: CPY 301, CPY 401 & CPY 403***

### **FIRST SEMESTER - CPY 301**

Introduction to Laboratory Medicine/Chemical Pathology

- a) Meaning and scope of chemical Pathology
- b) Collection and preservation of samples for biochemical tests
- c) The concept of normal or reference values
- d) Units of expressing results. Interpretation of results
- e) The use of the Laboratory in clinical patient care.

Normal renal physiology, pathophysiology of renal diseases

- f) Glomerulonephritis, Nephrotic syndrome, Fanconi syndrome
- g) Renal function tests in clinical practice
- h) Renal function tests in clinical practice
- i) The value of chemical urinalysis in clinical medicine

Fluid and electrolyte balance in health and disease

Acid-base homeostasis and its disorders in diseased conditions

Principles of biochemical genetics and inborn errors of metabolism, Introduction to medicalgenetics, Chromosomes and DNA replication, Regulation of Gene Expression, Cloning and Sequencing of DNA, Molecular diagnostics.

Inborn errors of Amino acid metabolism

- a) Alkaptonuria, PKU (Phenylketonuria), Albinism
- b) Cystinuria, Hartnup's disease, Maple syrup urine disease.

Inborn errors of Carbohydrate metabolism

- a) Galactosaemia, Fructosuria, Glycogen storage diseases

### **SECOND SEMESTER- CPY 401**

Haem biosynthesis



The porphyries and their classification

Chemical Pathology of Nutrition to include vitamins, minerals, trace elements requirements  
Protein and protein-calorie malnutrition

Haematological Chemistry – iron metabolism, Folate and Vitamin B12 metabolism to highlight their association with haematological disorders

Purine metabolism and Gout

Chemical Pathology of the Gastrointestinal Function and its disorders to include the malabsorption syndrome.

Plasma Proteins and paraproteinemias.

Lipids and lipoprotein metabolism

Clinical enzymology to include diagnostic enzymology in hepatic, cardiac, muscular and bone disorders.

Bilirubin metabolism and Jaundice. Liver function tests to assess hepatic function.

Hypoglycaemic and hyperglycaemic syndromes. Diabetes Mellitus, its diagnosis, management and control.

Introduction to Clinical Endocrinology, current concepts of mechanism of hormonal action at the cellular level.

### **THIRD SEMESTER – CPY 403**

Calcium, Phosphorous, Magnesium metabolism in health and disease.

Hypothalamic and Pituitary hormones in health and disease.

Adrenocortical hormones and their disorders in disease

Laboratory investigation of the hypothalamic-pituitary adrenal axis.

Adrenal medulla and its hormones: Pheochromocytoma, neuroblastoma.

Congenital adrenal hyperplasia

Thyroid function – Normal and Pathological functions. Thyroid function tests.

Gonadal endocrinology (male and female)

The APUD system

Biochemical examination of CSF.

Biochemistry of malignancy – tumour markers

Total parenteral nutrition and its laboratory monitoring

Radioisotopes in Laboratory Medicine

## 2<sup>ND</sup> AND 3<sup>RD</sup> SEMESTERS

### **PRACTICALS/DEMONSTRATIONS/POSTING IN CHEMICAL PATHOLOGY LABORATORIES**

Specimen collection and preservation of urine, stool and blood specimens. Containers for specimen collection, elementary biostatistics and data processing. Quality control in laboratories. Theory of chemical analysis involving qualitative and quantitative analysis of normal and abnormal constituents of blood, urine, CSF and stool e.g. Measurement/Detection of protein and reducing substances in urine. Proteins and glucose in plasma. Performing the oral glucose tolerance tests (OGTT) and plotting various curves in disease states.

Detection of Bilirubin and metabolites in urine

Detection of Ketone bodies and salicylates in urine.

Spectroscopy of haemoglobin and derivatives in blood and urine.

Chromatographic techniques for separation and identification of sugars and amino acids in urine specimens.

Zone electrophoresis of serum proteins as analytical tool and in clinical diagnosis of abnormal protein metabolism.

Determination of sodium and potassium estimation by emission flame photometry

Interpretation of tests results, Seminars; case report presentation.

### CHEMICAL PATHOLOGY LECTURE SCHEDULE 400L

TIME	CODE	TOPIC
9-11am “	CPY 301	Introduction to Chemical Pathology: meaning & scope of the discipline. Relationship to other branches of pathology.
9-11am	“	Collection, preservation of specimens for investigations i.e. whole blood (serum plasma), urine & stool. Exudates and transudates – differences.
9-11am	“	Types of specimen bottles and containers in use in

		clinical chemistry laboratory Anticoagulants in use and their mode of action
9-11am	“	Units of measurement of concentration or activity of biological systems – Traditional and S.I. units
9-11am	“	The concept of normal or reference values. Establishing normal values in a population and factors
9-11am	“	The use of the laboratory in clinical care of patients; interpretation of test results of investigations for clinical use.
9-11am	“	Laboratory analytical quality control methods; standard deviation, mean, coefficient of variation (C.V) sensitivity, specificity precision, charts etc.
9-11am	“	Diagnostic quality control assessment of laboratory tests i.e. specificity, sensitivity and predictive values of diagnostic tests
9-11am	“	Diagnostic quality control assessment of laboratory tests i.e. specificity, sensitivity and predictive values of diagnostic tests
9-11am	“	Normal renal physiology and homeostasis. Pathophysiology of renal diseases – glomerulonephritis, nephrotic syndrome Fanconi syndrome.
9-11am	“	Renal function tests (1) Glomerular – clearance concept and clearance tests in clinical use – Protein clearance test in nephritic syndrome; and selective & unselective proteinuria
9-11am	“	Tests of renal tubular function: water deprivation test; PSP test; renal tubular acidosis & acidification test. The usefulness of chemical urinalysis in clinical patient care.
11-1pm “ 2-3pm 3-5pm	CPY 401	Fluid and electrolyte balance in health Disorders of fluid & electrolyte balance Disorders of fluid & electrolyte balance
11-1pm 2-3pm 11-1pm 2-3pm 3-5pm	“	Acid-base homeostasis I Disorders of acid-base homeostasis - (metabolic) II Disorders of acid-base homeostasis - (Respiratory) III Laboratory assessment of H <sup>+</sup> disturbance (IV)
11-1pm “	“	Principles of biochemical genetics and inborn errors of metabolism

11-1pm 2-3pm 11-1pm 2-3pm 11-1pm 2-5pm 3-5pm	“	Introduction to medical genetics, Chromosome and DNA replication. Regulation of gene expression. Cloning & sequencing DNA Inborn errors of Aminoacid metabolism (i) Alkaptonuria (ii) Phenylketonuria (PKU); (iii) Albinism (iv) Cystinuria (v) Hartnup's disease (vi) maple syrup urine disease PRACTICALS
11-1pm 2-3pm 3-5pm 11-1pm 2-3pm 2-3pm 2-5pm	“	IEM of carbohydrate metabolism to include the clinical and biochemical features: (i) Galactosaemia (ii) Fructosuria (essential and Hereditary fructose intolerance (iii) Pentosuria (iv) Glycogen storage diseases (Types I-vii) Continuous Assessment Test I PRACTICALS
11-1pm 2-3pm 11-1pm 2-5pm	CPY 402	Haem biosynthesis The porphyrias: Their biochemical and Clinical classifications PRACTICALS
11-1pm “ 3-5pm 11-1pm 2-3pm 11-1PM  2-3pm 11-1pm  11-1pm 3-5pm 11-1pm 2-3pm 11-1pm 3-5pm 11-1pm “  3-5pm	“	Hypoglycaemia – causes and investigations “ “  PRACTICALS Hyperglycaemia – causes and investigations “ “  Diabetes mellitus, diagnosis, management and control “ “ “  Oral glucose tolerance Test Patterns of curves and disease conditions “ “  PRACTICAL Bilirubin metabolism Jaundice and its classification “ “  PRACTICALS Normal Hepatic physiology Liver function and its disorders “ “ “ “  PRACTICALS
1-3pm 1-3pm “ “ “	“	Continuous Assessment Test II Clinical enzymology – Introductory “ “  Diagnostic enzymology in hepatic disease “ “

1-3pm “ “ “ “	“	Diagnostic enzymes in cardiac disorders “ “ Diagnostic enzymes in muscular dystrophies Diagnostic enzymes in cardiac disorders Diagnostic enzymes in cardiac disorders Diagnostic enzymes in some miscellaneous disorders including red cell enzymes in clinical diagnosis
1-3pm “ “ “ “	“	NUTRITION: Major classes of food and in health and disease – proteins carbohydrates and fat in energy requirement Kwashiorkor and marasmus Micro nutrients requirements – Vitamins and trace elements in health and in disease
9-12pm  2-5pm 9-12pm 2-5pm 9-12PM	“	Haematological biochemistry: I iron metabolism PRACTICALS Iron metabolism (contd) PRACTICALS Haematological biochemistry II: Folate & Vit. B12 metabolism
11-1pm “ 2-5pm 11-1PM  2-5pm 11-1pm 1-11pm 2-5pm	CPY 403	Plasma proteins I Plasma proteins II PRACTICALS Plasma protein electrophoresis to show the components of plasma proteins & their functions PRACTICALS Paraproteinaemia I Paraproteinaemia II PRACTICAL
11-1pm “ 2-5pm	“	Calcium & Phosphorus metabolism I Calcium, Phosphorus & Magnesium “ II PRACTICALS
11-1pm “ 2-5pm 11-1pm “ 2-5pm 11-1pm “ 2-5pm 11-1PM	“	Gastrointestinal Tract I Gastrointestinal Tract II PRACTICALS Pancreatic function & Tests Malabsorption Syndrome I PRACTICALS Malabsorption Syndrome II G.I.T. function tests in clinical diagnosis II PRACTICALS GIT function tests in clinical diagnosis II
11-1pm 2-5pm 11-1pm “ 2-5pm	“	Purine metabolism I PRACTICALS Purine metabolism & Gout I Purine metabolism & Gout II PRACTICALS
11-1pm	“	Lipids and lipoprotein metabolism I

“ 2-5pm 11-1pm “ 2-5pm 11-1pm		Lipids and lipoprotein metabolism II PRACTICALS Hyperlipidaemia & cardiovascular diseases Dyslipidaemia and disease states PRACTICALS Lipidoses
11-1pm 2-5pm 11-1pm	“	Introduction to clinical endocrinology PRACTICALS Molecular mechanism of hormonal action (for protein/peptide and steroid hormones)
11-1pm “ “ 2-5pm 11-1pm “ 2-5pm 11-1pm “ 11-1pm	“	Molecular mechanism of hormonal action (contd) Hypothalamic and anterior pituitary hormones Hypothalamic and Ant. Pituitary hormones PRACTICALS Disorders of anterior pituitary gland Disorders of Adrenocortical hormone secretion PRACTICALS Congenital Adrenal hyperplasia (CAH) Assessment Test III Adrenal medulla and its hormones: phaeochromocytoma and neuroblastoma
11-1pm 2-5pm 11-1pm 11-1pm 2-5pm 11-1pm	“ “	Thyroid function – normal & pathological I “ “ Thyroid function tests Gonadal endocrinology – male I PRACTICALS Gonadal endocrinology – female II
11-1pm 3-5pm	“	Biochemical monitoring of the fetoplacental unit integrity
11-1pm 9-12pm 2-3pm 9-12pm 2-5pm	“	Biochemistry examination of the CSF Biochemistry of malignancy & Tumour markers “ “ “ Biochemistry of the Apud system & the Apudomas “ “ “
9-5pm 9-5pm	“	Seminars/case report/data presentation “ “
		MOCK EXAMINATION

### **MODE OF INSTRUCTION AND ASSESSMENT OF STUDENTS**

- 1) By didactic lectures as per the lecture schedule above
- 2) By laboratory practicals as outlined in the syllabus and in the Student Practical Manual and Workbook
- 3) By clinical case reports with appropriate laboratory result presentations
- 4) Tutorials and laboratory result interpretations.

In-course assessment tests (3 – 4) are conducted during the course of the programme and a mock examination is taken. The in-course assessment tests form 30% towards the final MBBS Part II Professional exam. score.

The final MBBS Part II Professional exam. Form 70% of the total score which comprises the following:

- (i) Paper 1: (multiple choice questions, MCQ) 40 questions
- (ii) Paper II (Essay type questions)
  - (a) One (1) long question and
  - (b) One (1) multiple short essay types questions covering (2-3) varied topics of the syllabus
- (iii) Practical Exam: The steeple chase format for practicals is adopted and used
- (iv)
  - (a) to assess the competence in performing simple tests e.g. urinalysis and their application to clinical problem solving.
  - (b) To make the student interpret patients laboratory investigations/data for appropriate diagnosis.
  - (c) To allow students identify some essential laboratory equipment/apparatus they should be familiar with during practical class sessions or posting in the clinical laboratory of the teaching hospital.
- (v) Orals/viva voce: To allow students to express themselves during the oral session on any academic/professional topic or subject matter asked by a panel of expert examiners.

### **EQUIPMENT/REAGENTS/CONSUMABLES THAT ARE AVAILABLE PRESENTLY & FOR SERVICEABLE**

#### **EQUIPMENT**

1. pH/blood gas analysers (Ciba – Corning) x 2 serviceable
2. Sensitive Chemical balance (Mettler)
3. Bench centrifuge (12 buckets) – Gallenkamp 80-2
4. Colorimeter (Hannah Instruments)
5. Deep freezer (Gallenkamp)
6. Spectronic 21 D Spectrophotometers x 2 (Milton Roy)
6. Microprocessor pH Meter 211 (Hannah instruments)
8. Refrigerator/freezer (Sanyo Medical Freezer)
9. Uniscope Electrophoresis Tank with Power pack & Accessories
10. Electrical ring boiler
11. Emission Flame Photometers x 2 (Gallenkamp & Jenway)
12. Hot air laboratory oven (Fissons Inst.)
13. Stainless water baths x 2 (Grant & Haake Inst.)
14. Timer
15. 664 Fast 4 System (Ciba – Corning) Autoanalysers (Serviceable)
16. 550 Express Clinical Chem. Autoanalyser (Ciba-Corning) “

#### **B. GLASSWARE ETC.**

17. 1ml, 2ml, 5ml, 10ml (glass) graduated pipettes
18. 10ml graduated pipettes (plastic)
19. 100ml, 1 litre, 2litre, (glass) measuring cylinders
20. 1 litre (plastic) measuring cylinders x 10

21. Rimless test tubes (glass)
22. Test tubes plastic
23. 2 litre conical flasks (glass)
24. 1 litre beakers (glass)
25. 250ml, 500ml Beakers (glass)
26. Small funnels (plastic & glass)
27. 100ml, 200ml, 500ml, 1ml (fixed and adjustable volume) pipettes - Oxford
28. No. 1 filter Papers (different sizes)
29. Pipette washer (plastic)
30. Test tube racks (wooden, plastic & metal)
31. Universal bottles (30ml capacity) x 2x400 pcs each
32. EDTA specimen bottles x 200
33. Fluoride-oxalate sugar bottles x 200
34. EDTA – KF sugar bottles x 100
35. Lithium heparin bottles x 200
36. Plain bottles (10ml) x 200
37. Cellulose Acetate Papers x 1 pkt.

**C CHEMICALS & REAGENTS**

1. Benedicts qualitative solution 2x2½L
2. Clinitest tables x 2 pkts
3. Clinistix test strips for urinalysis
4. Albustix
5. Combi 9 test strips for urinalysis
6. Combi 2 & Combi 3 strips for urinalysis
7. Occult blood test tables
8. Pregnancy test strips
9. Ammonium sulphate 1x500gm
10. Barium chloride 1x500gm
11. Trichloroacetic acid 1x500gm
12. Sulphosalicylic acid (SSA) 1x500gm
13. p –dimethylamino benzaldehyde 1x20gm
14. Ferric chloride 1x500gm
15. Sodium Nitroprusside 1x250gm
16. Sodium Salicylate 1x250gm
17. Sodium Acetate 1x500gm
18. Sodium chloride 1x500gm
19. Mercuric Nitrate 1x250gm
20. Sodium Carbonate 1x500gm
21. Sodium Hydroxide 1x500gm
22. Diphenylcarbazone 1x250gm
23. Phenol red 1x100gm
24. Picric Acid 1x500gm
25. Conc. Ammonia solution 1x2½L
26. Conc. Hydrochloric acid 1x2½L
27. Conc. Sulphuric acid 1x2½L
28. Chloroform 1x2½L
29. Acetone 1x2½L
30. Amyl Alcohol 1x500ml
31. Acetic Acid 1x2½L



- 32. Absolute Ethanol 1x2½L
- 33. Methanol 1x2½L

## **Department of Haematology and Blood Transfusion**

### **Objective:**

This is to introduce medical students to Haematology as a subject and a clinical discipline.

Requirement: It is expected that the students would have gone through the pre-clinical programme of the MBBS and must have satisfied the examiners at the 2<sup>nd</sup> MB exams (Part I MBBS).

Haematology shall be taught in three modules as soon as the students commence the clinical programme. It shall be taught alongside the other disciplines in laboratory medicine i.e. Histopathology, Chemical Pathology, Medical microbiology & Parasitology. Each module shall be for eight weeks, there shall be 8-16 hrs of lecture in each module; 2hr practical class shall accompany each hour of lecture. At the end of each module, there shall be an end of posting test to assess the students' knowledge. The three modules shall be intercalated with the other clinical postings.

**1<sup>st</sup> Module:** This will be an introductory class, during which the students shall be exposed to the different aspects of Haematology and foundation lectures given in the different aspects. At the end of the module each student should be able to describe the different aspects of Haematology and the function of a Haematologist and also describe the different tests carried out in a Haematology laboratory and the usefulness of each test.

**2<sup>nd</sup> Module:** The lectures shall be geared towards the formation of the different components of the blood elements and how diseases may arise from abnormalities of the different aspects of the red cell, white cell and platelet. Disorders arising from abnormalities of the Haemoglobin molecules shall also be taught at this level. The students shall also learn the different causes of Anaemia, how to investigate and treat such. Organization of the blood bank and the concept of safe blood and Biosafety guidelines shall be taught in conjunction with the different blood group systems and clinical blood transfusion practices.

**3<sup>rd</sup> Module:** This shall comprise clinical Haematology mostly. It shall include lectures on the malignant disorders of the white cells alongside lymphoproliferative and myeloproliferative disorders. Inherited and acquired disorders of the coagulation system shall also be taught. At the end of the posting, it is expected that the students shall be able to discuss the differences between malignant white cell disorders and benign white cell disorders; they are also expected to differentiate between an acute malignant disorder and a chronic disorder. In addition, they will be able to say the similarities and differences between the different inherited bleeding disorders. At the end of this posting, the knowledge of the student shall be tested in all aspect of Haematology during the Pathology and Pharmacology exam, which comes up immediately after the posting.

**Practical Class:** This shall involve both the lecturers and laboratory scientists. The scientist shall prepare the slides and/or other materials needed for the class. The lecturer shall give the theory/principle of the practical class in the first half hour of the class. The class shall include a demonstration by the scientist and subsequent participation by the students.

**The Pathology Examination**

This shall comprise of four parts

- Multiple choice questions

- Essay paper
- Practical examination
- Oral examination

All the four aspects shall include the four disciplines ( Haematology, Histopathology, Chemical Pathology, Medical microbiology & Parasitology) taken at the same sitting. The practical and oral exams for the four disciplines shall be taken at the same time. Each discipline shall be responsible for marking and collating their results; each discipline shall be responsible for the choice of its external examiner. All lecturers and external examiners shall be at the board of examiners meeting to certify the result before it is released.

## **COURSE CONTENT**

### **INTRODUCTORY (MODULE ONE)**

- Introduction to Haematology
- Introduction to serology and the organisation of a blood bank
- The coagulation cascade and routine coagulation tests
- Reference values in Haematology and interpretation of results
- The different Romanowsky stains and anticoagulants used in Haematology
- Biosafety guidelines
- Haemopoiesis: erythropoiesis, granulocytogenesis
- Haemoglobin structure and function

### **MODULE TWO**

- Iron deficiency anaemia
- Megaloblastic anaemia
- Haemoglobinopathies : Structural defects
- Haemoglobinopathies: Quantitative defects
- Enzymopathies: G6PD deficiency
- Membranopathies: Hereditary spherocytosis, Hereditary Elliptocytosis
- Paroxysmal Nocturnal haemoglobinuria
- Safe blood, blood collection & processing
- The ABO blood group system
- Rhesus blood group system
- Transfusion reactions and management
- Haemolytic disease of the newborn
- Preparation of blood components

### **MODULE THREE**

- Burkitt's lymphoma
- Non Hodgkin's lymphoma
- Hodgkins disease
- Acute lymphoblastic lymphoma
- Acute myeloblastic lymphoma
- Chronic lymphocytic lymphoma
- Chronic myeloblastic lymphoma
- The myeloproliferative disorders
- Multiple myeloma

- The inherited bleeding disorders
- Acquired disorders of coagulation
- Thromboembolic disorders

## **Department of Medicine**

### ***Undergraduate Medical Course***

It is expected that at the end of the course in medicine, the student will have acquired the knowledge, skills and attitudes that will enable him/her to:

1. Achieve a basic understanding of the general principles and philosophical understanding of medicine.
2. Obtain a good medical history, and record them accurately and coherently
3. Examine clinically all organs and systems of the body elicit relevant signs related to each of them and record these accurately
4. Assess the general condition, mental and psychological states and attitudes which may have any bearing on the patients complaints
5. Compile all data obtained from the history and clinical examination, and construct a coherent differential diagnosis.
6. Describe the common diseases of each organ/system of the human body and all the signs and symptoms associated with each
7. Describe the most appropriate therapeutic means to cure in the shortest time possible the diseases so described and thus alleviate the patients pain, prolong his or her life, and prevent any complications.
8. Manage common medical emergencies, prevent their occurrence, treat them rationally or refer them safely to the appropriate centers in good order.
9. Recognize the very serious cases that need specialized management, refer them appropriately by the best available means and in good condition.
10. Be aware of the common diseases prevalent in the area of his or her practice.
11. Be aware of the possible laboratory and other aids which may assist him in arriving at or verifying the appropriate diagnosis.
12. Practice with good bed side manners and ethical standard and have an abiding respect and concern for his patients and their families.
13. Be aware and recognize the indications, contraindications, limitations, and side effects of drugs.
14. Perform all common medical diagnostic and therapeutic procedures safely and skillfully.
15. Seek guidance from appropriate sources, such as more experienced colleagues, journals, books, when appropriate.
16. Commit himself or herself to a life long goal of continuing education and Training.

### **I. Introduction to Clinical Medicine:**

#### **Objective:**

- Students are introduced to the ideal composition of the health care team
- To recognize the roles of individual members of the health team
- Known how to relate positively to members of the health team in the interest of the patient
- Understand the basic ethical requirements in his/her dealings with the patient.
- Thoroughly understand the requirements in the area of Doctor-patient relationship.

## Methods:

Students are exposed to nursing programme, occupational therapy, medical social work, diagnostic laboratories, radio-diagnosis, laundry and mortuary.

## **2. Junior Clerkship:**

### Objectives:

At the end of the course, student should be able to:-

- Obtain a full relevant clinical history from any patient record and
- Present the history to medical colleagues in a professional manner
- Carry out complete physical examination on any patient
- Identify abnormal symptoms and signs in the patients
- Perform some of the following:
  - urine examination, perform venepuncture, give safe intramuscular injection
  - 
  - carry out stool, sputum examination
- take and interpret patients temperature.

### Teaching and Learning Methods:

- didactic lectures and discussions
- practical demonstrations
- practical exercises in allotted patient use of instructional materials
  - audiovisual aids – internet
- Clinico-Pathological Conference

## **3. Intermediate Clerkships:**

### Objectives:

At the end of the course, the students should be able to:

- clerk patients fully on his own and make the appropriate and differential diagnosis
- understand the basic examples and use of modern methods of diagnostic machines e.g. X-ray, Ultra Sound, (C.T. Scan) Computerized Tomograph Scanning
- understand common abnormalities in radiography, electrocardiography
- understand the indications for aspiration of and safety of aspiration of pleural effusions and
- examine specimen of body fluid aspirate CSF, Pleural effusions etc.
- explain the clinical manifestations of diseases on the basis of the underlying pathophysiology of the lesions

- understand the principles of writing medical prescriptions and be able to write prescriptions for common diseases
- understand the use of chemotherapy and chemoprophylaxis to treat infection caused by bacteria, viruses etc.

Teaching Methods:

***Lectures and seminars***

Tutorials

Constant practice on allotted patients

Participation at Ward and Grand rounds

Use of self instructional materials, textbooks and audio-visual aids.

Evaluation:

Written papers, MCO Essay and Clinical

**4. Senior Clerkship**

Objectives

At the end of the course, the students should be:

- Able to carry out all the objectives of the junior and intermediate postings with proficiency and greater competence
- Able to receive and manage appropriately medical emergency cases  
Able to fully understand the diagnosis, presentation, treatment and prognosis of locally important endemic diseases  
Able to clinically diagnose and manage patient with malignant diseases, including referral and appropriate specialized treatment
- Fully conversant with ethical practice and its principles
- Fully understand the role of medical precision in the promotion, prevention, protection and management of the health of the individual, as well as the general populace, and the rehabilitation of the disabled patient in the community
- Able to diagnose psychosomatic and psychiatric diseases, treat and refer as appropriate
- understand the role of research as a tool for continuing improvement in health care delivery of the nation and the world.

**5. Lecture/Seminar/Clinical Content:**

Areas to cover include Pathology, Pathogenesis, Aetiology, Clinical Manifestation, Natural history and Prognosis.

***GENERAL***

Fever, Pain, Coma, Acute poisoning, Anaphylaxis

**CARDIOLOGY - MED 403**

Rheumatic fever; Rheumatic heart disease

Infective endocarditis

Ischaemic heart disease

Hypertension  
Dysrhythmias and cardiac arrest  
Pericarditis  
Cardiomyopathy  
Heart failure  
Investigation of cardiovascular diseases

**RESPIRATORY MEDICINE** - **MED 404**

Respiratory infection - Upper and lower tract  
Pulmonary tuberculosis  
Sarcoidosis  
Pneumothorax and pleuritis (wet and dry)  
Pulmonary abscess and empysema  
Bronchiectasis  
Bronchial asthma  
Obstructive airways disease and respiratory failure  
Pulmonary embolism  
Pneumoconiosis

**GASTROENTEROLOGY** - **MED 405**

Jaundice  
Diarrhoeal diseases  
Amoebiasis  
Hepatitis  
Intestinal helminthiasis  
Schistosomiasis  
Peptic ulcer disease  
Schistosomiasis  
Peptic ulcer disease  
GIT Malignancy  
Diverticular disease  
Liver cirrhosis  
Liver carcinoma  
Liver cell failure

**HAEMATOLOGY** - **MED 406**

Nutritional anaemias  
Haemolytic anaemias and G-6-P deficiency disease  
Sickle cell disease  
Hypoplastic and myeloplast anaemias  
Haemorrhagic disorders  
Polycythaemia and myeloproliferative disorders  
Malignant lymphomas  
Multiple myeloma  
Thrombotic diseases

**ENDOCRINOLOGY** - **MED 407**

Diabetes mellitus  
Disorders of the Thyroid  
Parathyroid disorders



Adrenal disease  
Disorders of nutrition in the adult  
Disorders of Hypothalamo-pituitary axis  
Endocrine disorders of ovaries and testes

**NEUROLOGY** - **MED 408**

Cerebrovascular accident  
Neuropathies  
Epilepsy and other seizures  
Meningitis and encephalitis  
Parkinsonism and motor neurone disease  
Dementia  
Myasthenia gravis and muscular dystrophy

**RENAL MEDICINE** - **MED 409**

Water, electrolyte and hydrogen balance  
Urinary tract infections  
Glomerulonephritis and acute renal failure  
Nephrotic syndrome  
Chronic renal failure

**RHEUMATOLOGY** - **MED 505**

Autoimmunity and connective tissue diseases  
Lupus erythematosus  
Gout  
Rheumatoid arthritis  
Osteoarthritis.

**INFECTIOUS DISEASES** - **MED 507**

Malaria  
Typhoid  
Viral and related diseases  
Acquired immune deficiency syndrome – AIDS  
Amoebiasis  
Tetanus  
Septicaemia  
Sexually transmitted diseases – STD

**ONCOLOGY** - **MED 508**

Clinical effects of malignant disease  
Management of malignant disease  
Management of dying patients and of their relatives

**GENERAL THERAPEUTICS** - **MED 509**

1. Prescription of drugs:  
Principles, ethical considerations and practice
2. Fever
3. Pain
4. Nausea and vomiting
5. Diarrhoea

6. Constipation
7. Use and abuse of hypnotics, anxiolytics and tranquillizers
8. Antidepressant therapy
9. Use and abuse of antibacterial medications
10. Chemotherapy of malignant disease
11. Chemotherapy of infections
12. Approach to management of substance abuse including alcoholism and drug addiction.

**DERMATOLOGY** - **MED 603**

Parasitic and viral skin infections  
 Filariases and Guineaworm disease  
 Eczema/dermatitis  
 Leprosy and other granulomas  
 Drug eruptions  
 Pigmentary disorders  
 Skin manifestations of systemic disorders

**MEDICAL ETHICS** - **MED 604**

List of Lectures

History and Philosophy of Medical Ethics Case Studies  
 Presentation of real cases from NNC files  
 Relationship between Religion and medical ethics; influence of socio-Cultural values on medical ethics. Ethical issues involved in Primary Care, Ethics of Dental Practice, Relationship between the doctor and his patients. Relationship between the doctor and the medical team. Medical Ethics – Psychologist’s view. Psychiatric aspects of medical ethics. Medical audit. Doctor, Business connections and contracts, Nigeria Medical Council and Medical ethics of the Examination and care of women. Ethical issues involved in contraception, sterilization and infertility. Ethical issues involved in sex change and test tube babies. Elements of informed consent in Research. Medical ethics and relation to the dead and the dying. Course Evaluation.

***GENERAL***

Lymphadenopathy,

**CARDIOLOGY** - **MED 403**

- symptoms and signs in cardiology
- Pericardial disease

**RESPIRATORY MEDICINE** - **MED 404**

- Symptoms and signs in Respiratory medicine
- Investigation of respiratory diseases
- Pulmonary embolism

**GASTROENTEROLOGY** - **MED 405**

- Symptoms and signs in Gastrointestinal disease
- Investigation of gastrointestinal diseases
- Hepatic Abscess

- Pancreatic Titis
- Acute non-surgical (medical) abdomen
- Malabsorption syndrome
- Non-ulcer dyspepsia
- Acute Gastrointestinal haemorrhage
- Carcinoma of the pancreas

**ENDOCRINOLOGY** - **MED 407**

- Symptoms and signs of endocrine disorders
- Investigation of endocrine disorder

**NEUROLOGY** - **MED 408**

- Approach to patients with CNS disorders/localization of lesions within the CNS
- Investigation of CNS diseases
- Stroke in the young/stroke-like syndromes
- Cerebral abscess
- Headache
- Spinal cord disorders including Tuberculosis of the spine (replace this with myasthenia gravis .... – in the book)

**DERMATOLOGY** - **MED 603**

- Terminologies used in Dermatology
- Anatomy and physiology of the skin
- History taking, examination and investigations in Dermatology
- Rosea
- Disorders of the scalp and hair
- Connective Tissue disorders.

**GENERAL THERAPEUTICS** - **MED 509**

- Dosage forms
- Drug interactions: clinical importance, mechanism, monitoring of adverse drug reactions.
- Influence of disease on drug effects and interactions.
- Introduction to clinical pharmacodynamics
- Principles of clinical management
- Evidence based medicine.

**RENAL MEDICINE** - **MED 409**

- Symptoms and signs of renal diseases.
- Approach to investigation of renal diseases
- Interstitial renal disease
- Obstructive uropathy and congenital abnormalities
  - Chronic renal failure (including, chronic glomerulonephritis, diabetic nephropathy, sickle cell nephropathy)
  - (To replace chronic renal failure in the book)

**RHEUMATOLOGY** - **MED 505**

- Symptoms and signs of rheumatological diseases
- Investigation rheumatological diseases
- Connective tissue disorders.

**TEACHING METHODS:**

Lectures and seminars  
 Tutorials  
 Clinico-pathological conferences  
 Death Conferences  
 Constant practice on allotted patients  
 Participation at Ward and Grand rounds  
 Use of self instructional materials, textbooks and audio-visual aids.

**ASSESSMENT**

Continuous Assessment tests  
 End of Posting Examination  
 Mock Final Examination

Examinations

Written paper 1	Essay
Paper 11	MCQ
Clinicals	
	Long Case
	Short Case
	Orals

## **Department of Medical Microbiology**

### **Course Outline**

The course in medical microbiology consists of seven parts

- Introduction (MCB 401)
- Bacteriology (MCB 402)
- Immunology (MBC 403)
- Virology (MCB 404)
- Mycology (MCB 405)
- Medical Protozoology (MCB 406)
- Medical Helminthology (MCB 407)
- Applied Microbiology (MCB 408)
- Medical Entomology (MCB 409)

Each part except the section on infectious diseases consists of lectures and demonstrations/practicals and the students are expected at the end of the course to be able to apply the knowledge gained to the practice of medicine.

### **(i) Introductory Microbiology (MCB 401)**

#### **Course Content:**

##### **Lectures:**

- (a) History of Microbiology and its place in Medicine
- (b) General characteristics of microorganisms cell structure and function
- (c) Classification and identification of microorganisms
- (d) Growth and metabolism of microorganisms
- (e) Microbial genetics and variation
- (f) Antimicrobial methods, sterilization and disinfection.

##### **Practicals:**

- (a) Safety procedures in the microbiology laboratory demonstration of tools used in microbiology laboratory; use of the microscope.
- (b) Simple staining techniques – Gram's and Ziehl-Neelson staining techniques.
- (c) Demonstration of different types of media including those used for various microorganisms.

### **(ii) Bacteriology (MCB 402)**

The lectures encompass the nature and classification of bacteria of medical importance, mechanisms of pathogenicity and virulence, metabolism and multiplication, and description/identification of specific bacterial agents of infectious diseases. In the practicals students will be expected to be able to list the basic safety procedures in the microbiology laboratory and demonstrate ability to:

- (a) Prepare and stain films/smears
- (b) Use the light microscope etc.

#### **Course Contents:**

### **(iii) Bacteriology**

#### **Lectures**

- (a) General properties and cultivation of bacteria
- (b) Microbiological specimens – collection, transportation, storage and processing and diagnostic methods.
- (c) Specific bacterial agents of infectious diseases
  - Staphylococci and streptococci
  - Clostridium and Bacillus species of medical importance.
  - Corynebacteria, mycobacteria
  - Enterobacteriaceae
  - Spirochaetes and Niesceria
  - Hemophilia, Bordetella, Vibrio, Brucella,
  - Campylobacta
  - Mycoplasma, Ureaplasma, chlamydia and Rickettsiae
  - Anti-bacterial agents and chemotherapy.

### Practicals

- (a) Demonstration of plating–out technique from the body normal flora, aeromicrobes and surrounding environments.
- (b) Making of smears from samples and inoculation onto solid media and into liquid media; isolation techniques
- (b) Demonstration and practicing of staining techniques, collection and examination of clinical samples/specimens such as blood, urine, CSF, swabs, stools etc.
- (d) Drug susceptibility testing.

### (iv) **Immunology (MCB 403)**

In the course of immunology, the following would be discussed:-

Innate immunity – factors affecting e.g. age, species specific anatomical factors (skin, membranes) etc. nutrition, hormones, acquired immunity – active and passive, factor affecting acquired immunity, antigens and their determinants, lymphoproliferative organs and their function in the immune biosynthesis of immunoglobulin, the thymus and tissue in the immune response, responses, structure and function of immunoglobulin, deficiencies in cell mediated immunity hypersensitivity – immediate and delayed anaphylaxis, immune tolerance. Tissue and organ transplantation. HLA system, immunosuppressant, malnutrition and immunity. Immunity and bacterial infections. Immunity and viral infection. Immunity and protozoan and helminth infestations. Immunity and fungal infections. Vaccination and immunization, autoimmunity. Host preservation of self (host surveillance) examples of autoimmune diseases, possible mechanisms involved in pathogenesis. Immunohaematology - ABO system, rhesus incompatibility, immunity and malignancies, tumor antigens.

### (v) **Virology MCB 404**

Nature of a virus, properties and principles of virus structure, differences between viruses and bacteria. Effects of virus on its host cell, virus replication portals of virus entry. Pathogenesis of virus infection. Immune response to virus infection, viral vaccines and vaccination. Basic principles of virus classification.

Practicals: Students will be expected to recognize the basic methods for culturing Viruses:

- (a) Cell culture method
- (b) Egg culture method
- (c) Animal culture method.

Description and identification of some medically important viruses.

Respiratory disease viruses:

Influenzaviruses, Parainfluenzaviruses, Rhinoviruses, Respiratory Syncytialviruses, Adenoviruses.

Central Nervous System (CNS) and Childhood disease viruses:

Enteroviruses, Measles, Mumps, Arboviruses, Rabies Viruses LCM etc.

Herperitis, Diarrhea, Faetus and infant disease viruses:

Herperitis A & B; Rotaviruses, Rubella, Vericella-zoster, other enteric viruses.

New and emerging disease viruses: Retroviruses – HIV/AIDS

Lassavirus; viruses and human cancer.

Practicals: Recognition and interpretation of the following serological tests for identification of medically important viruses.

- (a) Complement fixation test (CFT)
- (b) Neutralization test (NT)
- (c) Haemagglutination and haemagglutination inhibition test
- (d) ELISA tests.

(vi) **Mycology (MCB 405)**

The lectures involve the nature and classification of medically important fungi. In the practicals, the students are expected to be able to demonstrate the ability to perform, Skin scrapings for diagnosis of superficial dermatomycoses, recognize the microscopic appearance of different morphological types of fungi and recognize the colonial morphology of fungi on sabourands agar.

**Course Contents**

- (a) Introduction to mycology (fungi)
- (b) General feature and characterthis of fungi
- (c) Dermatophytes
- (d) Fungi causing superficial subcultures
- (e) Fugal agents of syrtemic nufioses
- (f) Actinomycetes and Nocordia
- (g) Opportunistic mycoses.
- (h) Antifungal Chemotherphy.

(vii) **Medical Protozoology (MCB 406)**

Different types of parasites:

Classification, properties, structure and life cycle, including the identification of various stages, of the following protozoa.

Plasmodium spp. Toxoplasma gondii, entomoeba histolytica, and gingivilis, opportunistic pathogen coli, trypanosome spp, leichincinnia spp.

**Practicals:**

Students will be expected to demonstrate ability to perform thin and thick films. Demonstrate ability to perform, staining with giemsa, wrights fields and leishmans stains. demonstrate ability to recognize plasmodium spp, and trypanosoma spp. in a stained smear given a properly working light microscope. Demonstrate ability to prepare wet mounts and identify;

1. trophozoites
2. cysts
3. giardia
4. trichomonas
5. E. coli

**(viii) Medical Helminthology (MCR 407)**

Development of medical helminthology, classification of helminthes general properties of helminths.

Description and identification of the following helminths;

Schistosoma spp. (masoni haematobium and japonicum) paragonimus westernii, fasciolopsis burki, taenia spp, (saginata and solium) echinococcus granulosus ascaris lumbrici -coides, strongyloides stercorarius, trichuris, trichura, onchocerca veculus, wuchereria bancrofti, Loa Loa, brugia malayi, dracunculus megnesi, acanthocheilium spp, trichinella spiralis.

**Practicals:**

Students will be expected to demonstrate the ability to prepare wet mounts from stool with saline and iodine. Demonstrate ability to prepare thin and thick films for the identifications of microfilaria. Demonstrate ability to prepare wet mounts for urine. demonstrate ability to recognize helminthes from tissue biopsy.

- (a) Collection and processing of mycological specimens
- (b) Cultivation of fungi on sabourauds agar and demonstration of mycelia growth.

**(ix) Applied Microbiology (MCB 408)**

Lectures will be on various terminologies used in describing or identifying various microbial diseases and their effects on various organs of the body.

Course Contents:

- (a) Terminologies in infectious diseases I :  
normal flora (microbiota), commensal, opportunistic and obligate pathogens.  
Pathogenicity, virulence, invasiveness, toxins, toxoids and antitoxins.
- (b) Terminologies in infectious II:  
Exogenous and endogenous infections, Endemic, epidemic and pandemic infections/disease, zoonosis, septicemia, bacteremia and toxemia, antibiotics, bacteriocins and vaccines.
- (c) Opportunistic infections
- (d) Nosocomial infections
- (e) Intracranial/central nervous system (CNS) infections.
- (f) Ear, Nose and Throat (ENT infections)
- (g) Pulmonary infections
- (h) Enteric and intrabdominal infections



- (i) Urinary Tract Infections (UTI)
- (j) Sexually transmitted diseases (STD)
- (k) Infections of bones, joints, skin and soft tissues
- (l) Septicemia, hepatitis and endocarditis
- (m) Food poisoning.

**N.B.** Details for the practicals are fully presented in the Department's Student Laboratory Manual which each clinical student is expected to possess.

(x) **Medical Entomology (MCB 409)**

The course will cover a comprehensive study and demonstration of vectors/insects responsible for the transmission of major diseases such as female anophelis mosquito in relation to malaria, aedes aegypti vector of yellow fever, simulium damnosum, the vector of onchocerciasis, tse-tse fly the vector of trypanosomiasis etc. different vectors would be demonstrated.

## **Department of Morbid Anatomy**

### **OVERVIEW**

The Department of Morbid Anatomy is one of the Laboratory Medicine Departments in the School of Clinical Medicine of the Igbinedion University, Okada, College of Health Sciences. The department teaches that aspect of medicine that deals with the diagnosis of diseases. As with the rest of the Laboratory Medicine Departments, it forms the bedrock of patient management. Knowledge of Morbid Anatomy prepares the students for further instructions during the clinical years.

Medical students enroll with the department at 300 level and receive instructions over a period of three semesters. The course comprises lectures and practicals, the latter include attendance at postmortem examinations, instructions on the gross and microscopic appearance of disease states, which include time spent in the departmental museum.

### **OBJECTIVES**

The Department of Morbid Anatomy has the following as its objective:

- (a) To provide a sound and all round education in the basic science of Histopathology to the medical students.
- (b) To make the students aware of the relevance of Histopathology to Medicine and its diagnostic values in the management of patients.
- (c) To develop and provide appropriate courses for students of other departments who may require a working knowledge of Histopathology.

### **COURSES OFFERED**

Undergraduate courses include General pathology, Systemic Pathology and Forensic Medicine.

The lecture schedule for the 2005/2006 period is attached as a separate document. All courses are compulsory and amount to 20 credit units. The department plans to start postgraduate (Masters Degree) courses in Forensic Science and Forensic Pathology during the 2006/2007 sessions. The curricula for these graduate programmes are currently being packaged.

### **COURSE DESCRIPTION**

In Morbid Anatomy, students are introduced to general pathology and special or system pathology. The general concern is with basic reactions of cells and tissues to abnormal stimuli that underlie all diseases. The system pathology examines the special responses of specialized organs and tissues to more or less well defined stimuli. The course is taught synchronously with some tropical diseases as seminar topics to emphasize the response of these tissues to injuries.

During the course, the students are encouraged to identify disease and make discussion of some of the common condition in the teaching pots and slides.

An introductory lecture in Forensic Medicine has been introduced into the curriculum for undergraduates.

These courses are detailed as below:

CODE	COURSE TITLE AND DESCRIPTIONS	UNITS	STATUS	HOURS
MOA 401	Special topics in Morbid Anatomy A detailed study of common pathological conditions using seminars and presentation.	2	C	30
MOA 402	Introduction to pathology especially Morbid Anatomy. Books on Pathology The normal cell (ultrastructure) Necrosis & Postmortem changes	1	C	15
MOA 403	Aetiology & Pathogenesis of Disease. The injured cell (including degeneration and disturbances of fat protein and carbohydrate metabolism and their accumulations in the cell)	1	C	15
MOA 404	Growth and its Modifications/Abnormalities Atrophy, Hyperplasia, Hypertrophy, Metaplasia, Dyplasia.	1	C	15
MOA 405	Inflammation, Chemical Mediators of Inflammation, Factors modifying inflammatory reaction. Types of inflammatory reaction, and Exudates, Abscesses, Ulcers, Empyema Characteristics of Acute and Chronic inflammation, Granulomas System/constitutional effects of inflammation.	1	C	15
MOA 406	Disturbances of fluid Balance and Haemodynamics, Haemorrhagic shock, Thromboembolism & Infarction	1	C	15
MOA 407	Healing and repair (including factors affecting Healing and Repair)	1	C	15
MOA 408	Pigments Pathological Calcification	1	C	15
MOA 409	Betokasua; Definition, Nomenclature and Classification Characteristic of Neoplasms: Growth differentiation and spread. Factors related to the spread of Cancer, Diagnosis, grading and staging of Cancer Changes in Cancer Cells Carcinogenesis & Geographical incidence of Cancer. Effects of Malignant tumours on Host differentiation and spread. Factors related to the spread of Cancer, Diagnosis, grading and staging of Cancer Changes in Cancer Cells. Carcinogenesis & Geographical incidence of Cancer.	1	C	15

	Effects of Malignant tumours on Host.			
MOA 410	GENETICS AND SOME GENETIC DISORDERS Introduction: The Normal Karyotype, Mutations Cytogenetic disorders	1	C	15
MOA 411	RESPIRATORY SYSTEM Vascular Disorders Pulmonary Infections Pneumocystosis	1	C	15
MOA 412	CARDIOVASCULAR PATHOLOGY Blood Vessel The Heart Ischaemic Heart Disease Rheumatic Carditis, Endocarditis Myocarditis Hypertensive Heart Disease Cardiomyopathy Cardiac Neoplasia			
MOA 413	GASTROINTESTINAL SYSTEM Peptic Ulcers and their complications, Tumours of the stomach, Colorectal Tumours.	1	C	15
MOA 414	GENITO-URINARY SYSTEM Renal Pathology Renal Disorders, Premalignant lesions of the cervix Carcinoma of the Uterine Cervix Tumours of the Breast Common lesion of the testis	2	C	30
MOA 415	ENDOCRINE SYSTEM Pituitary Gland Pathology Pathology of Endocrine Pancreas Thyroid Gland Parathyroid Glands Adrenal Glands	2	C	30
MOA 416	SELECTED TOPICS Malignant Tumours of Skin Intracranial Haemorrhage Brain Tumours	1	C	15
MOA 417	PRACTICALS Teaching Pots Teaching Slides Post-mortems	1	C	15
MOA 418	INTRODUCTION TO FORENSIC MEDICINE	1	C	15

## **Department of Obstetrics & Gynaecology**

### **DEPARTMENTAL OBJECTIVES**

## **OBJECTIVES OF THE UNDERGRADUATE COURSE IN OBSTETRICS & GYNAECOLOGY**

At the end of the course in Obstetrics and Gynaecology, the student will have acquired the knowledge, skills and attitudes, which will enable him/her to:

1. Lay the necessary foundation and understand the principles and practical aspects of obstetrics and gynaecology.
2. Obtain a good history and carry out a systematic physical examination on any patient presenting with an obstetric and gynaecological problem.
3. Recognize and manage the common gynaecological diseases in the community.
4. Understand the mechanism of normal and abnormal labour and recognize and manage the common complications of labour and the puerperium.
5. Be familiar with the techniques of pain relief in labour and the use of local anaesthetics for minor obstetrics and gynaecological procedures.
6. Identify high-risk obstetrical problems and refer to the appropriate units for specialized management.
7. Be familiar with the techniques for the skilful performance of the common gynaecological and obstetrical procedures and be able to assist effectively in their management.
8. Be familiar with the common laboratory and other diagnostic procedures in obstetrics and gynaecology.
9. Be familiar with the concept of asepsis and antisepsis during all gynaecological and obstetrical procedures.
10. Perform clinical procedures with high ethical bedside considerations and treat his patients with understanding, respect and concern.
11. Be familiar with the medico-legal aspects of gynaecological and obstetrical practice.
12. Pursue a long life commitment to continuing education and training.

The course in Obstetrics & Gynaecology consists of

Introduction posting	4 weeks
Junior Posting	12 weeks
Senior Posting	12 weeks

Introductory Posting. The student is introduced to the fundamentals of Obstetrics and Gynaecology.

Junior Posting: The student receives lectures, tutorials and clinical training in Gynaecology and Obstetrics.

Senior Posting The student receives further and more in-depth training in the form of lectures, tutorials and clinical exposure in the discipline of Obstetrics and Gynaecology.

During the two last postings, the student is also assigned to assist the House Officers and resident medical staff in their routine clinical duties.

The student is expected to acquire enough knowledge to be able to perform

- i. Routine examination of urine, including microscopy.
- ii. Microscopic examination of wet preparations of vaginal/cervical swabs for candidiasis trichomoniasis and other bacterial organisms.
- iii. Seminal fluid analysis.
- iv. Preparation and examination of blood films for malaria parasitaemia and types of anaemia (red blood cell morphology)
- v. Estimation of haemoglobin content of blood and packed cell volume, white cell count and differentials.
- vi Immunological pregnancy testing of urine.
- vii The minimum number of deliveries etc. each student is expected to be involved with during each posting is clearly indicated in this booklet as and when necessary.

#### **SEMESTER 400 & 500 LEVEL**

CODE	COURSES	UNITS	STATUS	HOURS
OBG 401	Introductory Obstetrics/Gynaecology	2	C	30
OBG 402	Gynaecology clinics – Junior posting	4	C	180
OBG 403	Obstetric clinics – Junior posting	4	C	180
OBG 502	Gynaecology clinics – Senior posting (Emphasis on management)	10	C	450
OBG 503	Obstetric clinics – Senior posting (Emphasis on management)	10	C	450
OBG 504	Special topics	2	C	30
OBG 505	Call duty & Tutorials	4	C	180

#### **COURSE DESCRIPTION**

CODE	COURSE TITLE & DESCRIPTION	UNITS	STATUS	HOURS
OBG 401	<b>Introductory Obstetrics /Gynaecology</b> Anatomy of the female genital tract, Puberty, Menstrual cycle control & variation, menopause, sex determination, intersexuality and congenital abnormalities, Conception, Implantation and early development, physiology of pregnancy, types of pelvices.	2	C	30
OBG 402 OBG 502	<b>Gynaecology clinics</b> Pelvic Inflammatory Disease, Contraception and family planning, Infertility, Amenorrhoea, Dysfunctional	4	C	180 450

	uterine bleeding, Utero-vaginal prolapse, Urinary incontinence, abortions, ectopic pregnancy, gynaecological emergencies, gynaecological malignancies.			
OBG 403 OBG 503	<b>Obstetric clinics</b> Antenatal care, Normal pregnancy, Obstetric haemorrhage, Ante-partum fetal monitoring for wellbeing & growth, Normal labour and the use of the partograph to detect abnormal labour, Malpresentations, Malposition, Abnormal lie and Unstable lie, Obstructed labour, Instrumental delivery (Vacuum, forceps & destructive operations), Caesarean section, Medical diseases in pregnancy (Anaemia, Hypertension, Diabetes mellitus, Heart diseases, Respiratory Diseases, Hemoglobinopathy and malaria in pregnancy), Multiple pregnancies, Premature Rupture of Membrane, Pre-term labour and delivery, Prolonged pregnancy, Perineal injury, Obstetric emergencies, Care and common problems of the newborn.	4	C	180 450
OBG 504	<b>Special topics</b> The concept of reproductive health, Endoscopy in Obstetrics & Gynaecology, Radiology in Obstetrics & Gynaecology (Hysterosalpingography, Plain abdominal X-rays and Ultrasonography), Radiotherapy in Obstetrics & Gynaecology, Analgesia & Anaesthesia in Obstetrics & Gynaecology.	2	C	30
OBG 505	<b>Call duty &amp; Tutorials</b> Clerking, Presentation, interactive session and case demonstration.	4	C	180

### **LECTURE SCHEDULE, CLERKSHIP AND CASE DEMONSTRATION**

#### **WEEK 1 & 2**

S/N	DAYS	TOPIC
1	Monday	Embryology of the female reproductive organs & malformations of the genital tract.
2	Tuesday	Anatomy of the pelvic organs & types of

		pelvices.
3	Wednesday	Conception, Implantation & early development.
4	Thursday	Clerkship, Clinical examination & case demonstration for Obstetric patient.
5	Friday	Clerkship, Clinical examination & case demonstration for Gynaecological patient.
6	Monday	Clinical Evaluation & common Investigations of patients in Obstetrics & Gynaecology.
7	Tuesday	Physiology of the female reproductive organs: Sex hormones, Menstruation, Puberty and menopause.
8	Wednesday	Physiology of pregnancy and assessment of risk in pregnancy
9	Thursday	Clerkship, Clinical examination & case demonstration for Obstetric patient.
10	Friday	Clerkship, Clinical examination & case demonstration for Gynaecological patient.

#### **WEEK 3 & 4**

11	Monday	Mechanism of normal labour and the use of a Partograph; Trial of labour.
12	Tuesday	Antepartum and intrapartum fetal monitoring
13	Wednesday	Problems in early pregnancy: 1. Abortion. 2. Ectopic pregnancy.
14	Thursday	Clerkship, Clinical examination & case demonstration for Obstetric patient.
15	Friday	Clerkship, Clinical examination & case demonstration for Gynaecological patient.
16	Monday	Antepartum and Intrapartum haemorrhage
17	Tuesday	Pre-Eclampsia, Hypertensive and heart diseases in pregnancy
18	Wednesday	Medical diseases in pregnancy I: Endocrine; 1. Gestational Diabetes Mellitus. 2. Thyroid disease.
19	Thursday	Clerkship, Clinical examination & case demonstration for Obstetric patient.
20	Friday	Clerkship, Clinical examination & case demonstration for Gynaecological patient.

#### **WEEK 5 & 6**

21	Monday	Medical diseases in pregnancy II: 1. Hyperemesis gravidarum. 2. Jaundice in pregnancy. 3. Respiratory disease.
22	Tuesday	Malaria in pregnancy.
23	Wednesday	Anaemia in pregnancy and



		haemoglobinopathies.
24	Thursday	Clerkship, Clinical examination & case demonstration for Obstetric patient.
25	Friday	Clerkship, Clinical examination & case demonstration for Gynaecological patient.
26	Monday	Abnormal pregnancy: 1. Multiple pregnancies. 2. Prolonged pregnancy. 3. Intrauterine growth restriction (IUGR).
27	Tuesday	Pre-term labour and delivery. Premature Rupture of Membrane. Tocolysis.
28	Wednesday	Gynaecological Emergencies.
29	Thursday	Clerkship, Clinical examination & case demonstration for Obstetric patient.
30	Friday	Clerkship, Clinical examination & case demonstration for Gynaecological patient.

### **WEEK 7 & 8**

31	Monday	Mal-presentation (Breech, Brow & Face). Transverse, Oblique and Unstable lie.
32	Tuesday	Cord presentation and Cord prolapse.
33	Wednesday	Malposition: Occipito-posterior position and deep transverse arrest.
34	Thursday	Clerkship, Clinical examination & case demonstration for Obstetric patient.
35	Friday	Clerkship, Clinical examination & case demonstration for Gynaecological patient.
36	Monday	Prolonged labour, Obstructed labour, Uterine rupture and fetal death.
37	Tuesday	Induction and Augmentation of labour.
38	Wednesday	Pre-malignant lesions of the cervix. Tumours of the cervix: 1. Benign. 2. Malignant.
39	Thursday	Clerkship, Clinical examination & case demonstration for Obstetric patient.
40	Friday	Clerkship, Clinical examination & case demonstration for Gynaecological patient.

### **WEEK 9 & 10**

41	Monday	Analgesia & Anaesthesia in Obstetric and Gynaecological practice.
42	Tuesday	Caesarean section.
43	Wednesday	Instrumental delivery: 1. Forcep delivery. 2. Vacuum delivery. Symphysiotomy & Destructive Operations

44	Thursday	Clerkship, Clinical examination & case demonstration for Obstetric patient.
45	Friday	Clerkship, Clinical examination & case demonstration for Gynaecological patient.
46	Monday	Pre & post-operative management in Obstetrics and Gynaecology.
47	Tuesday	Maternal genital injuries: <ol style="list-style-type: none"> <li>1. Cervical laceration.</li> <li>2. Perineal tears.</li> <li>3. Genital haematomas</li> </ol>
48	Wednesday	Episiotomy: Types, indications and complications.
49	Thursday	Clerkship, Clinical examination & case demonstration for Obstetric patient.
50	Friday	Clerkship, Clinical examination & case demonstration for Gynaecological patient.

## Department of Paediatrics & Child Health

### **A. DEPARTMENTAL OBJECTIVES:**

- (a) To introduce the students to the global principles and practice of Paediatrics and Child Health with particular emphasis on practice in the tropics.
- (b) To enable the students have a good working relationship with all the members of health team especially with respect to maternal and Child Health and to appreciate the need for team work.
- (c) To equip students with the cognitive knowledge, technical skills and clinical judgment to enable them achieve some measures of competence in the practice of paediatrics and child health.
- (d) To offer strategies of action for all children towards achieving an optimum child care package in Nigeria in particular but in Africa in general.

### **LECTURES CONTENTS IN PAEDIATRICS AND CHILD HEALTH**

#### 1). Introduction to Clinical Paediatrics skills

- a). The goal is to provide the students with the basic knowledge of the discipline of general paediatrics.
- b). The specific aspects of the Clinical history related to children and the methodology of physical examination in childhood.

#### 2). Growth and Development

- a). The use and importance of growth charts, factors affecting the growth development of children including skills and techniques of anthropometry measurements in children.
- b). Developmental milestones and
- c). Problems of stature are thought into details.

### **NUTRITION**

- d). At the nutritional clinics, instructions are given at the clin and attendance is compulsory.
  - i). Nutritional requirements such as carbohydrates, fat, protein, vitamin, minerals, fluid composition and comparison of breast milk with cow milk.
  - ii). Nutritional disorders such as protein – energy – malnutrition, marasmus, vitamins deficiency, clinical features and management are through.

#### 3). CHILD HEALTH, UNDER FIVE CLINICS AND PRIMARY CARE

Instructions in this course are done mostly at the Health care clinics and Health centers.

- a). Students are expected to perform such procedures such as assessment of nutritional status of children, anthropometry immunization procedure.
- b). Health education to mothers, about nutrition, environmental sanitation, social factors affecting child health are discussed.
- c). students are introduced to prevention and management of physical and mental handicap in children.
- d). Intermittent seminars are conducted on above subjects.

- e). The role of poisons and domestic accidents such as drugs poisoning, bites, household accidents, kerosene poisoning and burns are discussed.

4). **CARDIOVASCULAR, RESPIRATORY**

- a). Lectures, seminars, demonstrations and clinical presentations are done on diagnosis and management of Health failure.
- b). Rheumatic Fever and heart diseases – diagnosis and management
- c). Common and important congenital heart malformations, acyanotic and cyanotic forms with diagnosis and principles of management.
- d). Hypertension in children
- e). Diagnosis and management of respiratory emergencies.
- f). Diagnosis and management of chronic respiratory infections such as bronchial Asthma, pulmonary tuberculosis.
- g). Diagnosis and management as well as anthologies of the following diseases in childhood.
  - (i). Laryngotracheobronchitis
  - (ii). Epiglottitis
  - (iii). Stridor
  - (iv). Wheezing (including bronchiolitis and Asthma).
  - (v). Pneumonia
  - (vi). Pharyngitis
  - (vii). Congenital anomalies of the tract

5). **A GASTRO-INTESTINAL AND GENITO URINARY TRACT**

- a). Causes, diagnosis and management of diarrhoea
- b). Constipation
- c). Chronic diarrhoeas
- d). Causes and management of bleeding
- e). Causes and manage of Obstructions
- f). Causes and management of Jaundice, Hepatitis
- g). Mal absorption syndrome
- h). Parasites and Abdominal pain
- i). Fluid and electrolyte Imbalance
- j). Salmonellosis

**KIDNEYS**

- a). Anomalies of the genito-urinary system
- b). Urinary tract infection
- c). Diagnosis and management of acute glomerulonephritis
- d). Diagnosis and management of Nephritic Nephritis
- e). Diagnosis and management of Nephritic syndrome
- f). Diagnosis and management of acute and chronic Renal Failure
- g). Diabetes insipidua.

6). **METABOLIC DISORDERS AND ENDOCRINE**

- a) Causes, diagnosis and management of hypoglycemia in neonates and other children
- b) Principle of management of diabetes mellitus
- c) Rickets

## **ENDOCRINE**

- a). Stages of puberty
- b). Hypothyroidism (symptoms and differential diagnosis)
- c). Ambiguous genitalia
- d). Precocious puberty
- e). Delayed puberty

## **7. CENTRAL NERVOUS SYSTEM AND RETICULO ENDOTHELIAL SYSTEM**

Causes, diagnosis and principles of management of:-

- a). Cerebral palsy/mental retardation
- b). Hypotonia and weakness
- c). Coma
- d). Seizures
- e). Hemiplegia
- f). Microcephaly
- g). Macrocephaly (including hydrocephalus)
- h). Different features of upper and lower motor neuron disorders
- i). Encephalopathy
- J). Meningitis

Reticuloendothelial system:

Causes, principles of diagnosis and management of:-

- a). Hepatomegally
- b). Splenomegally
- c). Lymphadenopathy

## **8. HAEMATOLOGY/DISEASES OF THE BLOOD**

Causes, principles of diagnosis and management of:

- a). Bleeding disorders, in particular haemophilia
- b). Anaemia (generally)
- c). HIV
- d). Leukaemia
- e). Malaria

## **9. SPECIFIC INFECTIONS AND GENETICS**

- a) Parasites – ascariasis, trichuriasis, taeniasis, giardiasis, cutaneous larva migrans
- b) Can – cum omis (principles of management)
- c) Common rashes with fever
- d) Pyrexia of unknown origin
- e) Congenital infectious

**Incubation, periods, modes of transmission, complications, clinical features treatment and prevention (where possible)**

- a). Neisserial infectious
- b). Staphylococcal infectious
- c). Streptococcal infectious
- d). Pneumococcal infectious
- e). Chlamydia trachomatis/nichiloben)
- f). Rotavirus
- g). Mumps

- h). Measles
- i). Respiratory syncytial viral infectious
- j). Influezae
- k). Rubella
- l). Poliomyelitis
- m). chicken pox
- n). Hepatis A, B, non A non B.
- o). Salmonella infectious
- p). Shigella infectious
- q). Escherichia coli infectious
- r). Diphtheria
- s). Pertussis
- t). Rabies
- u). Schistosomiasis
- v). Amoebiasis
- w). Malaria
- x). Syphilis ( connata)
- y). Tetanis
- z). Tuberculosis

- 21 Failure to thrive (including metabolic disorders)
- 22 Childhood allergy
- 23 Connective tissue disorders (Arthritis)
- 24 Rickets and bone deformities
- 25 Behavioral and psycho-social problems in childhood
- 26 Child – Abuse

Note: Students are advised to use Tele-medicine, Library and Internet facilities to improve and be up-to-date knowledge of the problems above

### **GENETICS**

- a). Molecular basis for genetic diseases
- b). Modes of transmission of genetic diseases, autosomal recessive autosomal dominant traits and X-linked dominant inheritance
- c). Chromosomal abnormalities such as trisomy 21-diagnosis and symptoms
- d). Sickle – cell disease – clinical features, diagnosis, principles of management.
- e). Genetic counseling

### 10. **PAEDIATRIC ONCOLOGY**

- a). Burkitt's Lymphoma
- b). Nephroblastoma
- c). Neuroblastoma
- d). Haematoblastoma
- e). Retino blastoma
- f). Hodgkin's disease
- g). Endothelial malignancies

### 11. **NEONATOLOGY AND PERINATOLOGY**

- a). Genal principles on neonatology and perinatology
- b). Neonatal sepsis, neonatal meningitis Group B, haemolytic streptococcus and other neonatal diseases diagnosis and management.

- c). Maternal diseases and infectious
- d). Foetal monitoring
- e). Foetal pulmonary maturation
- f). Gestational assessment
- g). Low birth weight, small for gestational age, large for gestational age.
- h). Babies of diabetic mothers

### COURSE DESCRIPTION

CODE	TITLE AND DESCRIPTION	UNITS	HOURS	STATUS
PAED 501	Introduction to Paediatrics Health care needs in children in relation to growth and development paediatric history taking and physical examination pattern of child mortality and mortality in Nigeria relevant variations in immediate environment. Signs and symptoms of cardio vascular diseases in infants and children signs and symptoms of respiratory diseases in infants and children signs and symptoms of CNS diseases in infants and children. Signs and symptoms of gastro-intestinal diseases in infants and children signs and symptoms of urinary tract infectious physical characteristics and behavioral pattern of the Newborn, low birth weight infant, preterm and small for dates babies.	2	30	C
PAED 502	Nutritional growth and development. At the nutritional clinics, instructions are given at the clinic and attendance is compulsory. The nutritional needs of normal children and nutritional disorders such as protein energy malnutrition, marasmus are discussed. Students are taught the values of growth charts, factors affecting growth development of children including skills and techniques of anthropometry are taught. Factors affecting growth and development, failure to thrive, adolescence and its challenges.	2	30	C
PAED 503	Child Health and primary care mostly at Health care clinics, under-five-clinics and Health Centres. Immunization and Anthropometry procedures. Health education to mothers, involving nutrition environmental sanitation, social factors affecting child health introduction to prevention and management of physical and mental handicap children immunization for Nigerian child, normal and Abnormal Habits.	2	30	C
PAED 504	Cardio vascular, Respiratory lectures, seminars, demonstration and clinical presentations are done on the following. Cardio vascular disorders, examination of the cardio vascular	2	30	C

	system, congenital cardio vascular disorder, acquired health disease, heart failure. Acute and chronic respiratory tract infectious. Bronchial Asthma, Pulmonary Tuberculosis. The wheezing child, bronchitis's and congenital anomalies of the tract.			
PAED 505	Genito-urinary and gastro-intestinal tract. Diarrhoeas, acute and chronic forms with vomiting fluid and electrolyte imbalance, oral rehydrational therapy, Jaundice, Hepatitis Parasites, Abdominal Pain mal Absorption, Bleeding Developmental and Structural anomalies of the genito-urinary system. Urinary tract infection acute Nephritis, Nephrotic syndrome, acute and chronic renal failure.	2	30	C
PAED 506	Endocrine and metabolic - the following metabolic and endocrine disorders are discussed and demonstrated at the clinics or wards: Hypoglycemia, Hyperthyroidism diabetes mellitus, Rickets, precocious puberty, and delayed puberty.	2	30	C
PAED 507	Central nervous system, muscles and bones. Acute infectious of meningitis, encephalitis, hydrocephalus microcephalus, convulsions coma, cerebral palsy, mental subnormal, Osteomyelitis, Pyomyositis progressive muscle disease.	2	30	C
PAED 508	Diseases of the blood haemophilia, Anaemia HIV, Leukaemia, malaria sickle cell Anaemia cooley Anaemia	2	30	C
PAED 509	Genetics and specific infectious molecular basis for genetic diseases. Chromosomal abnormalities genetic counseling. Autosomal recessive and dominant inheritance, X-linked dominant trait. Pertussis, malaria, tuberculosis, schistosomiasis salmonellosis	2	30	C
PAED 510	Paediatrics Oncology burkitt's Lymphoma Nephroblastoma, Neuroblastoma Nematoblastoma Central nervous system tumors. Endothelial malignancies	2	30	C
PAED 511	Neonatology and perinatology students are expected to spend two weeks in the nursery in order to be adequately familiarized with the problems of the new born babies. Both normal and abnormal babies, such as:- Normal new born Baby, preterm, small for date, post term, babies. Jaundice in the new born, haemorrhagic disease of the new born as well as respiratory problems at that age. Neonatal infections such as: Neonatal sepsis, meningitis, and Neonatal	2	30	C



	Tetanus.			
PAED 512	Clinicals: Daily ward round : X-Ray sessions : Under five clinics : autopsy attendance (if any) : Lab. Attachments 512 run almost parallel with 501	4	60	C

## **DEPARTMENT OF PAEDIATRICS AND CHILD HEALTH**

2). Courses offered are:

- |     |                                  |         |
|-----|----------------------------------|---------|
| a). | Introduction to Paediatrics      | 2 units |
| b). | Nutrition growth and development | 2 units |
| c). | child Health and primary care    | 2 units |
| d). | Cardiovascular and respiratory   | 2 units |
| e). | Genito-urinary and GI tract      | 2 units |
| f). | Endocrine and metabolic          | 2 units |
| g). | CNS, muscles and bones           | 2 units |
| h). | diseases of the blood            | 2 units |
| i). | Specific infectious and genetics | 2 units |
| j). | Paediatric Oncology              | 2 units |
| k). | Heonatology and perinatology     | 2 units |
| l). | Clinical: Daily Ward Round       | 4 units |

Note: All units are mandatory

All students are expected to attend 75% of all lectures

Total hours = 390 hours.

### **LEVEL 500** **LECTURE SCHEDULE**

#### 1<sup>ST</sup> WEEK

- Introduction – welcome to the department
- Examination of the respiratory system
- Examination of the Cardio-vascular system
- Examination of the Central Nervous system
- Examination of the Abdomen

#### 2<sup>ND</sup> WEEK

- Examination of musculo-skeletal system
  - Effect of Poverty and unhealthy environment
  - History of molecular Biology to Paediatric disease
- Growth and Development

#### 3<sup>RD</sup> WEEK

- Acute respiratory tract infectiou
- Phanyagitis, group, Asthma
- Diarrhoeal diseases, complication causes and management
- Acute abdomen in children

- Hepatitis in childhood

#### 4<sup>TH</sup> WEEK

- Meningitis, encephalitis
- Coma and management, cerebral malaria
- Urinary tract infection
- Rheumatic fever and endocarditis
- Tuberculosis in childhood

#### 5<sup>TH</sup> WEEK

- Measles, varicella, tetanus poliomyelitis and mumps
- Immunization schedule – Nigeria
- HIV/AIDS

#### 6<sup>TH</sup> WEEK

- Wheezing disorders in childhood
- Paediatric allergy
- Common skin infections in children “

#### 7<sup>TH</sup>, 8<sup>TH</sup> and 9<sup>TH</sup> WEEK

- Microcephalus, macrocephalus
- Seizures disorders in childhood “
- Acute glomerulonephritis “
- Diagnosis and management of Renal failure “
- Hypertension in childhood “

#### 10<sup>TH</sup> WEEK

- Congenital heart disease cyanotic, and non-cyanotic including cardiomegally and cardio myopathy “
- Sickle cell disease
- Leukemias in childhood “
- Tumours in childhood “
  - : Burkitt’s
  - : Retinoblastoma
  - : Neuroblastoma
  - : Nephroblastoma
  - : Hodgkin’s disease

#### 11<sup>TH</sup> WEEK

- Gastro intestinal obstructions in children
- Malnutrition and stunting
- Chromosomal disorders
- Under five problems

#### 12<sup>TH</sup> WEEK

- Normal Newborn baby
- Birth Asphyxia, aetiology and management
- Neonatal Jaundice
- Neonatal Sepsis
- Neonatal Tetanus and

### 14<sup>TH</sup> WEEK

- Perinatology  
(2 sessions)
- Hypoglycaemia - Principle
- of management of diabetes mellitus
- Rickets (nutritional)
- Ambiguous genitalia
- Congenital adrenal hyperplasia

### 15<sup>TH</sup> WEEK

- Burns
- Emergency Paediatrics and poisoning
- X-Ray sessions
  
- Medical Ethics

### 16<sup>TH</sup> WEEK

- Revision
- Examination - Progressive Assessment  
Clinical  
Short cases  
Long case
- Review of Examinations and advise, round table discussion by ALL Academic - Staff

Total duration of Posting is 16 weeks

### **LECTURE PLAN**

a). 2 Lectures hours daily five days a week

### **POSTING**

Groups	1 <sup>st</sup> 4 weeks	2 <sup>nd</sup> 4 weeks	3 <sup>rd</sup> 4 weeks	4 <sup>th</sup> 4 weeks
A	NNU	A & E	GOP+)	GW
B	GW	GOPD	A & E	NNU
C	GOPD	GW	NNU	A & E
D	A & E	NNU	GW	GOPD

### **MID-POSTING ASSESSMENT**

After 8 weeks: MCQ and SAQ Examination

### **END OF POSTING ASSESSMENT**

After 16 weeks:

MCQ,

Short Answer Questions

Clinical

- Long & Short cases
- Orals

## ***ABBREVIATIONS***

NNU means neonatal Unit

A & E means Accident and emergency unit

GOPD means General out patient unit

GW means General Ward Area

## **PHARMACOLOGY CURRICULUM FOR M.B, BS. DEGREE**

This programme is designed to fulfill the requirements of the Medical & Dental Council of Nigeria as well as the Nigerian National Universities commission for the training of medical students in Nigeria during the clinical years.

### **(1) Aims and Objectives of the Course:**

#### **(a) General**

- i) To introduce the medical students to the principles of drug treatment in diseased states.
- ii) To impart knowledge on the understanding of properties of drugs and the mechanisms by which they produce their effects in diseased conditions.
- iii) To enable the medical students at the end of the course to be competent to select drug(s) rationally for any ailment diagnosed on a scientific basis.
- iv) To acquaint students with the National Drug Formulary and the Essential Drug List Decree of 1989.

#### **(b) Specific:**

At the end of the course, the student should be able to utilize the knowledge acquired to prescribe drugs or remedies for diseased states in man. He will be able to understand the pathological condition or altered physiological state from his knowledge of pathology and other clinical sciences and prescribe appropriate drugs from his knowledge of pharmacology and medical therapeutics.

### **2. Duration of the Course and Pre-requisites:**

- (a) Pre-requisites for the course are the successful completion of the Part Two MBBS subjects (Anatomy, Physiology and Biochemistry) and the introductory clinical programme. The course in Pharmacology would run concurrently, and be examined together, with the Sciences of Pathology at the end of 500 level.

### **3. Course Structure and Content**

#### **(a) Methods of Teaching include:**

- (i) Didactic Lectures
- (ii) Tutorials and Seminars
- (iii) Demonstrations and classical audiovisual film presentations
- (iv) Practical classes, clinical presentations and case reviews

#### **(b) EXAMINATIONS:**

There is a general policy for examinations in the College of Health Sciences of the university and the Department of Pharmacology and Therapeutics would comply fully with the current University policy on all examinations.

### **GRADING AND MARKING SYSTEM**

The distinction pass mark is 70% with other conditions. The general pass mark is 50%. A close marking system is applicable for essays. A minus half penalty on wrong multiple choice or objective questions applies where it is usually compulsory to attempt all questions, but no penalty for omissions.

Continuous assessment tests contribute once, at 30% of the final score, for pharmacology written tests and the examination, at the Part III (Pharmacology & Therapeutics; Sciences of Pathology) MBBS degree examinations, ORAL EXAMINATIONS are part of the professional MBBS examinations.

### **ATTENDANCE POLICY:**

75% (Seventy-five percent) attendance of all lectures, practicals, tutorials and demonstrations are the minimum requirement to be signed-up to participate in the final Pharmacology & Therapeutics Part III MBBS examinations.

### **(c) TOPIC OUTLINE:**

#### **Course Code**

411 (i) General Principles (2 Credits; 30 hours)

The Scope of Pharmacology; Origin and Sources of Drugs, Routes of Administration of drugs; Pharmacokinetics, Absorption of Drugs; Excretion of Drugs; Biotransformation of Drugs; Mode of Action of Drugs; Types of Drug Action; Drug Action in Man; Compliance; Individual Variations; Presence of other drugs; Genetic Effects; Tolerance and Tachyphylaxis; Effects of Diseases; Drug Toxicity; Adverse Drug Reaction.

413 (ii) Chemotherapy I (2 Credits; 30 hours)  
(Antimicrobials)

Microbes in Man; Mode of action of Antimicrobial Drugs; sulphenamides; Penicillins; Cephalosporins; Aminoglycosides; Lincomycins; Peptide Antibiotics; Drugs Treatment of Tuberculosis; HIV/AIDS; Miscellaneous Antibiotics; Vancomycin, Spectinomycin, Fusidic Acid; other Synthetic; Antimicrobials; Drugs, Nalidixic Acid; Nitrofurantoin; Drug Treatment of Leprosy; Antifungal Agents; Quinolones; Fluorinated Pyrimidines; Imidazoles; Miscellaneous Antifungal Agents; Methisazone; Idoxuridine; Acyclovir; Cytarabine; Antiretroviral drugs; Adenine Arabinoside, Interferons; Humoral Immunoglobulins; Malaria; Trypanosomiasis; Leishmaniasis; Amoebiasis; Amoebic Liver Abscess; Giardiasis; Balantidiasis. Trichomoniasis; Ankylostomiasis; Ascariasis; Trichinosis; Strongyloidiasis; Enterobiasis; Filariasis, Loasis, Onchocerciasis; Dracontiasis; Schistosomiasis; Fascioliasis; Clonorchiasis; Paragonimiasis; Taeniasis, Cysticercosis, Hydatid Disease; Diphylobothriasis; Tape Worm.

- 412 (iii) Chemotherapy – II (I Credit; 15 hours)  
(Antineoplastics)

Major Features of Malignant Disease; Review of Cell Kinetics; Cell cycle specificity: Cell-cycle; Non-Specificity; Cancer cell versus Bacterial Infaction; Principles of Cancer Chemotherapy: Adverse Effect of Antineoplastic Drugs; Alkylating Agents; Antimetabolites; Natural products; Anthracycline; Antibiotics; other Antibiotics;

Steroid Hormones and Antagonists; Miscellaneous Anti-cancer Drugs; Agents for Immunotherapy; Radio – Activity.

- 421 (iv) Autonomics and Autacoids (2 Credits; 30 hours)  
(Including Ocular Pharmacology)

Review of Neurohumoral Transmission; Transmitters in the Central and Peripheral Nervous system; Cholinergic and Adrenergic Receptors; Cholinergic Stimulants and Blocking agent; Autacoids – Histamine Receptors and Histamine Antagonists; 5 hydroxytryptamine; Renin – Angiotensin; Kinins; Plasma Kinin-Bradykinin- Kallikrein; Substance P; Prostaglandins; Leukotrienes; Cyclic Nucleotides and other Mediators; Ocular Pharmacology: Miotics, Mydriatics, Cycloplegics, Ocular hypotensive (antiglaucoma) drugs; Decongestants.

- 422 (v) Neuropharmacology including Psychopharmacology  
(4 Credits; 60 hours)

**Neuropharmacology, Anaesthesia and Analgesia** (3 Credits).

Special situations of Drug Action; Entry of Drugs in C.N.S.; Blood-brain barrier, Non-narcotic Analgesics; Opiate Receptors; Narcotic Analgesics; Narcotic Antagonists and Partial Agonists; Antipyretic agents; sleep; Barbiturates and Non-barbiturate agents; Alcohols; Review of General and Local Anaesthetic Drugs; Anaesthesia in persons already taking drugs Neuromuscular Blocking Agents; Central Nervous System Stimulants; Anticonvulsant Drugs; Epilepsies, Principles of Antiepileptic Treatment; Review of Different Groups of Antiepileptic Drugs, Status Epilepticus, Epilepsy and special situations – pregnancy; Contraception; Anaesthesia, surgery, Miscellaneous Anticonvulsant Drugs. Treatment of Parkinsonism, Levodopa, Decarboxylase Inhibitors, Bromocriptine, Amantidine; Anticholinergics; Anti-histaminics; Phenothiazines; Drug therapy of Spasticity, Dantrolene, Baclofen; Interneuronal Blockers, Drugs in Myasthenia Gravis.

**Psychopharmacology (1 Credit)**

Psychoses; Depression; Anxiety; Neuroleptics – Phenothiazines; Butyrophenones; Dihydroindoles; Dibenzodiazepines; Rauwolfia Alkaloids,

Anxiolytics Benzodiazepines; Antilepressants with sedative properties; thymoleptics; Tricyclics; Bicyclics; Tetracyclics; Monoamine Oxidase Inhibitors {Hydrazines and Non-Hydrazines}; Amino acid Precursors of Transmitter Amines; Amines; Tetrahydroisoquinoline Derivatives; Lithium; Psychostimulants; Psychodysleptics.

423 (vi) **SYSTEMIC PHARMACOLOGY – 1 (15 Credits; 75 hours)**

**including:**

Cardiovascular Pharmacology Renal Pharmacology (1 Credit; 15 hours)

Gastrointestinal Tract Pharmacology (1 Credit; 15 hours)

Vitamins & Haematinics (1 Credit' 15 hours)

Respiratory Tract Pharmacology (1 Credit; 15 hours)

G.I.T. Pharmacology (1 Credit) (including hypolipidaemic drugs)

Vomiting – Antiemetics; Constipation – Purgatives; Antacids – Anticholinergics – H<sub>2</sub> Receptor Antagonists – Ulcer Healing Drugs; Gastrointestinal Hormones – Pentagastrin – Secretin; Non-specific Antidiarrhoeal Drugs; Lactulose; Lipid Disorders – Cholestyramine; Pancreatin; Cholecystokinin; Hypolipidaemic drugs.

**Respiratory Tract Pharmacology (1 Credit)**

Oxygen therapy, Bronchodilator drugs; Asthma, Cardiobronchial Asthma; Status Asthmaticus; Cough Suppressants; Mucolytic Agents; Respiratory Stimulants.

**Haemopoietic Pharmacology, Vitamins & Haematinics (1 Credit)**

**Anaemias; Iron Deficiency and other Hypochromic Anaemias; Megaloblastic Anaemias; Iron Cobalamins – Folates; Anticoagulants; Heparin, Coumarins; Indandiones; Fibrinolysis-fibrinolysin; Thrombus; Platelet Aggregation Inhibitors; Vitamins.**

**Renal Pharmacology (1 Credit)**

**Diuretics; Alteration of Urinary pH; Urinary Tract Infections; Renal Failure; Immunity; Immuno-Suppressive Agents in kidney transplant; Haemodialysis treatment.**

**Cardiovascular Pharmacology (1 Credit)**

**Heart Failure and its Drug Management; Anti-anginal Drugs; Ischaemic heart Disease and its Drug Management; Antiarrhythmic Drugs, Hypertension and its Drug Management; Vasodilators.**

511 (vii) **SYSTEMIC PHARMACOLOGY – II (4 Creditors; 60 hours)**

**including:**

- Antirheumatic and arthropathic drug treatment (1 Credot)
- Endocrine Pharmacology (1 Credit)



- Perinatal Pharmacology
- Drugs in Obstetric Management (1 Credit)
- Dermatologic Preparations and Dermal Pharmacological (1 Credit)

### **Antirheumatic and Arthropathic Drug Treatment (1 Credit)**

Inflammatory Arthropathy and Degenerative joint diseases; Metabolic Disposition Arthropathy; Analgesics; Non-steroidal Anti-inflammatory Drugs {NSAID}; Corticosteroids; Long-term; Antirheumatic Agents; Gold salts, d-penicillamine; Chloroquine; Immunosuppressive Agents; Levamisole; Gout; Colchicine and Democalcine; Phenylbutazone; Indomethacin, Probenecid; Ethiebenecid, Allopurinol.

### Endocrine Pharmacology (1 Credit)

Mechanism of action of Hormones, CNS-Hypothalamus – Adenohypophysis – Endocrine Glands, Anterior and Posterior Pituitary Hormones; Thyroid Hormones and Antithyroid Drugs; Parathyroid Hormones; Calcitonin, Diabetes Mellitus; Insulin; Oral Hypoglycaemics; Hyperaldosteronism; Sex-Hormones, Oestrogens, Androgens, Progestogens, Antagonists to Hormones; Pharmacologic Methods of Family Planning.

### Perinatal Pharmacology (1 Credit)

Drugs in Pregnancy; Drugs Affecting Uterine Motility, Ergot; Oxytocin, Prostaglandins; Drugs affecting Migraine.

### Dermal Pharmacology (1 Credit)

General Aspects of the Dermal Pharmacokinetics; forms of Topical Application and systemic Administration in Dermal conditions; Topical Antifungal and Steroid Preparations and Adverse Effects.

## 521 (viii) **SPECIAL TOPICS (5 Credits; 75 hours) including:**

Toxicology, OTC's and Drug Interactions (2 Credits) Clinical Pharmacology (2 Credits) Prescription writing and Drug Abuse (1 Credit).

### Toxicology, Over-the-Counter Drugs and Drug Interactions (2 Credits)

Mechanisms of drug toxicity; Management of acute drug poisoning; Plant, bacterial and animal poisons; Solvent Poisoning: Pesticides, Herbicides, Radiation toxicology; Herbicides, Radiation toxicology; Air-borne Poisoning; Heavy metals and chelating agents; Food additives; Drug – drug interactions, Radioisotopes in Pharmacology Cobalt 60, Gold 198, Iodine 131, Phosphorus 32. OTC drugs and alternative herbal products interactions with prescribed drugs.

### **Clinical Pharmacology (2 Credit)**

Introduction to the processes of drug therapy; The Pharmaceutical process; The Pharmacokinetic process; The Pharmacodynamic process; The Therapeutic process; The mathematics of pharmacokinetics; Application of the analysis of drug therapeutic failure; Monitoring drug therapy; Pharmacogenetics; Adverse Drug Reactions surveillance; Drug Interactions; Drug therapy in neonates, the young, the elderly and in pregnancy; patient compliance; placebos; Drug development and clinical Trials.

### **Prescription Writing and Drug Abuse (1 Credit)**

Principles of prescribing; Chronotherapeutic prescribing; How to write a prescription; Sources of information on drugs; Essential Drugs List concept. Drug dependence and abuse: Factors predisposing to drug dependence; Opiates, Cocaine, Amphetamine, Cannabis, LSD and Psilocybin; Psychedelics; Alcohol; Hypnotics and Tranquilizers; Tobacco (nicotine); Socio-economic consequences; Management of self-poisoning.

#### 512 (ix) PRACTICAL PHARMACOLOGY (1 Credit; 45 hours)

In-vitro experiments:

- (1) Guinea pig ileum preparation (dose-response effects)
- (2) Rat phrenic-nerve-diaphragm preparation of rat.
- (3) Isolated perfused heart preparation of rat.
- (4) Rat jejunum or ileum (Finkleman method).
- (5) Perfused isolated rat mesentery preparation.
- (6) Guinea pig tracheal preparation.

In-vivo experiments:

- (7) Anesthetized cat blood pressure preparation
- (8) Rat blood pressure preparation
- (9) Rabbit eye demonstration of local anaesthetic effects
- (10) Pharmacokinetics of sulphadimidine in rabbit.
- (11) Phenobarbital-sulphadimidine metabolic interaction in the rabbit.
- (12) Effects of drugs on the electrocardiogram of anaesthetized dogs (antiarrhythmic drugs).
- (13) Analgesics testing (mice on hot plate).
- (14) Experimental chemotherapy of infection in mice (Antibiotics against E.coli septicaemia)

### **Summary of topics outline**

Course code

- |     |        |   |
|-----|--------|---|
| 411 | (i)    | General principles (2 Credits; 30 hours)                            |
| 413 | (ii)   | Chemotherapy –I (2 Credits; 30 hours)                               |
| 412 | (iii)  | Chemotherapy – II (1 Credit; 15 hours)                              |
| 421 | (iv)   | Autonomics, Autacoids and Ocular Pharmacology (2 Credits: 30 hours) |
| 422 | (v)    | Neuropharmacology and Psychopharmacology (3 Credits; 45 hours)      |
| 423 | (vi)   | Systemic Pharmacology – II (5 Credits; 75)                          |
| 511 | (vii)  | Systemic Pharmacology – II (4 Credits; 60 hours)                    |
| 521 | (viii) | Special Topics (5 Credits; 75 hours)                                |
|     | -      | Toxicology (2 Credits)  |
|     | -      | Clinical Pharmacology (2 Credits)                                   |
|     | -      | Prescription writing and Drug Abuse (1 Credit)                      |

512 (ix) Practical Pharmacology (1 Credit; 45 hours)  
**Total Credits:** 25 (360 hours Lectures; 45 hours Practicals)

**Department of Psychiatry**

**LECTURES IN PSYCHIATRY**

<b>DATE</b>	<b>DAY</b>	<b>TIME</b>	<b>LECTURE TOPICS</b>
22-8-05	Mon	9-10	Personality Disorder

22-8	Mon	3-4	Signs and Symptoms of Psychiatric Disorder
23-8-05	Tues	9-10	Substance Related Disorder
23-8-05	Tues	3-4	Mood disorder
24-8-05	Wed	11-12	Schizophrenia and other Psychotic Disorders
25-8-05	Thur	9-10	Development of Psychiatry with emphasis on Nigeria
25-8-05	Thur	3 – 4	Schizophrenia and Psychotic Disorders
26 –8-05	Fri	9-10	Psychiatric Emergencies
29-8-05	Mon	3-4	Disorder of Memory
30-8-05	Tues	9-19	Disorders of Perception
30 –8-05	Tues	3-4	Disorders of Emotion/Feelings
31-8-05	Wed	3-4	Disorders of Sleep
01-9-05	Thur	9-10	Geriatric Psychiatry
01-9-05	Thur	3-4	Anxiety Disorder
08-9-05	Thur	9-10	Psychotherapy- Behaviour/Cognitive
15-9-05	Thur	9-10	Sexual Disorders and the Paraphilins
15-9-05	Thur	3-4	Community and Forensic Psychiatry
19-9-05	Mon	3-4	Psychopharmacology
21-9-05	Wed	9-10	Child and Adolescent Psychiatry

### **Department of Radiology**

#### **Academic Staff**

	<b>NAME</b>	<b>QUALIFICATION</b>	<b>STATUS</b>
1	Dr. O.M. Omoregbe	MBBS FWACS	Associate Lecturer
2.	Dr.Benker-Coker	MBBS, FWACS	Associate Lecturer

The teaching of Radiology is included in the relevant clinical subjects. A posting in Radiology takes place in The Fourth year. The course is taught during the 12 weeks of

Special Postings. Students are required during this period to rotate for a specific TWO WEEKS period in Radiology.

### **OBJECTIVES**

At the end of the course in Radiology the student should have acquired knowledge, skills and attitudes that will enable him or her to:

1. Describe the principles of radiological diagnosis and its uses in medicine
2. Be acquainted with the technical procedures available in this field
3. Describe the principles of therapy and their applications in the management of diseases
4. Be aware of the limitations and implications of these procedures for health.
5. Describe the means of clinical investigation using radioactive material

### **Mode of Instruction**

1. Didactic lectures
2. Demonstrations
3. Tutorials
4. Clinical Attachment

### **Teaching Aids**

1. Audio visual aids
2. Clinical Models
3. Simulations
4. Radiology Equipments
  - CT Scan Machine
  - Mammography Machines
  - Lithotripsy Machine
  - Ultrasonography Machine

### **Evaluation**

1. End of Posting Examination
2. Final Examination in Medicine includes Radiology
3. Final Examination in Surgery includes Radiology
4. Clinicals in Medicine and Surgery include Radiology.

### **Clinical Attachment**

	CT SCAN	USS	GENERAL RADIOLOGY
Monday	Group I	GP 2	G3
Tuesday	GP 2	GP 3	G1
Wednesday	GP 3	GP 1	GP 2
Thursday	Revision demonstration		Dr. Marchie
Friday	Test		Dr. Akhigbe

### **SPECIAL POSTINGS: RADIOLOGY**

<b>DAY</b>	<b>TOPIC</b>
Monday	Respiratory Radiology
Tuesday	Radiation protection
Wednesday	Cardiovascular radiology
Thursday	CNS radiology
Friday	Seminar
Monday	GI radiology
Tuesday	Renal radiology
Wednesday	Skeletal radiology
Thursday	Seminar Ultrasound in medicine
Friday	Seminar Ultrasound in medicine

NB: You are to have 75% attendance in your lectures and demonstration, for you to be qualified to be signed off in Radiology

You are also expected to attach yourselves to clinical duties during your posting during which you sign for procedure you observed or assisted in.

## **Department of Surgery**

### **COURSE OBJECTIVE**

- The *raison d'être* of the Department of Surgery are Teaching, Research and Service to the Community.
- These duties will ultimately be based on well-recognized Surgical specialty units.
- Each such unit will be headed by a senior academic surgeon of Professorial rank and contain several Consultant Surgeons all of whom should hold senior academic appointments in the College of Health Sciences of Igbinedion University and Residents undergoing Postgraduate training.
  
- Currently there is one global General Surgery Department (encompassing Gastroenterology, Surgical Oncology, Traumatology and Plastic Surgery & Burns. There is currently one Senior Registrar in the department. The resident doctors and medical officers in Central Hospital Benin also participate actively in teaching our students.

### **AIMS OF THE DEPARTMENT**

The Surgical Department aims to satisfy the following:

Provision of appropriate teaching and learning experience for undergraduate medical students on specialty basis to satisfy the requirements, Regulation and Syllabus for the MB BS degree examinations of Igbinedion University and in keeping with the Regulations and Standards of the relevant regulatory bodies:

- The Medical and Dental Council of Nigeria
  - The National Universities Commission.
1. To use the surgical units as nuclei for the establishment of Postgraduate Surgical Training Programs of such standard as to satisfy the requirements of relevant National and International Surgical Specialty Examination Boards and Programs.
  2. Provision of an appropriate academic programs and environment as to enable Lecturer/Consultants and Residents carry out meaningful research and publish in well recognized areas of specialization.
  3. Provision of the highest quality surgical service to the community in keeping with available specialties in the lofty tradition expected of a University Teaching Hospital.

### **DEPARTMENTAL ACTIVITIES**

The Department of surgery is engaged in the following activities:

1. Outpatient clinics
2. Daily working ward rounds
3. Teaching ward rounds

4. Minor surgical sessions
5. Major surgical sessions
6. Clinico-pathological Grand Ward Rounds
7. Teaching Hospital Global Continuing Education Rounds
8. Undergraduate lectures
9. Undergraduate tutorials
10. Undergraduate seminars

## **OBJECTIVES OF THE UNDERGRADUATE GENERAL SURGERY COURSE**

The undergraduate general surgery course consists of:

1.	Introduction to Surgery	8 WEEKS
2.	Junior Posting	16 WEEKS
3.	Special Posting in Surgical Subspecialties	12 WEEKS
4.	Senior Posting	16 WEEKS

### **MODE OF INSTRUCTION TO STUDENTS**

Instruction is carried out through

1. Lectures
2. Seminars
3. Tutorials
4. Practical Demonstrations
5. Bedside Teaching Ward Rounds
6. Grand Clinico-pathological Rounds

### **Teaching Aids**

5. Audio visual aids
6. Clinical Models
7. Simulations
8. Telemedicine

### **OUTCOME EXPECTATIONS OF THE TEACHING PROGRAM**

It is expected that at the end of the course in surgery, the student will have acquired the knowledge, skills and attitudes that will enable him/her to:

1. Achieve a basic understanding of the general principles and philosophical underpinnings of general surgery.
2. Obtain a good history from the surgical patient and record them systematically.
3. Perform a systematic physical examination, elicit surgical physical signs and record them accurately.
4. Describe the common surgical diseases systematically including their etiology, symptoms, signs, relevant investigations, treatment, prognosis, and complications
5. Use all relevant data obtained to construct an appropriate differential diagnosis and then arrive at a rational diagnosis.
6. Be aware of the common and other laboratory diagnostic aids which may help in reaching or verifying the diagnosis.
7. Predict and present with empathy to the patient and his relatives, the most probable prognosis of the disease diagnosed.



8. Recognize the common surgical emergencies, be able to prevent them where possible, manage them rationally if possible or refer them, by the best available means, safely and in good condition.
9. Be aware of the available specialized surgical, therapeutic and advanced technological devices that may help in the management of different surgical conditions.
10. Manage the surgical patient by the most appropriate means, resorting to operative intervention considered necessary, aiming always at curing the patient in the shortest possible time, alleviating his pain, prolonging his life, preventing complications and above all causing no harm through omission.
11. Perform common minor surgical procedures and be able to help effectively as an assistant in the management of surgical diseases.
12. Be aware of the ethical and legal consequences of surgical intervention and all the required precaution necessary to avoid complications.
13. Work within a health team and be able, when necessary, to be its leader.
14. Commit himself or herself to a life long goal of continuing education and training.

## **CLINICAL WARD POSTINGS**

### **1. PATIENT ASSIGNMENT**

- Students will be assigned in small manageable groups for the purpose of tutorials and demonstrations.
- Each group will elect a GROUP CAPTAIN whose duties shall include:
  - i. Allocation of patients admitted to the care of the unit
  - ii. He/she will liaise with the Resident and the Ward Sister to ensure that all admitted patients are assigned to students in his group.

### **2. LECTURES, TUTORIALS AND SEMINARS**

- The topics for lectures and tutorials is shown on page ----
- The topics cover the required core material for undergraduate surgical education.

### **3. STUDENT CASE PRESENTATION & RECORD KEEPING**

- Students must obtain history and perform physical examination
- Students must record the obtained history legibly, and submit them to the designated clinician for critical checking and marking.
- All such clerking and all notes must be signed legibly and countersigned by the clinician in charge.
- Finally the students must acquire the habit and ability to present their patients concisely and precisely to the supervising consultant.

### **4. OUTPATIENT CLINICS**

- The outpatient clinic provides a very important opportunity for teaching/learning.

- Students are expected to attend, examine, clerk and discuss patients in the outpatient clinic

#### **5. EMERGENCY CALL DUTY**

- Students are “on call” on rotation basis as assigned by the group captain.
- This call duty provides an unparalleled opportunity for clerking patients admitted on emergency basis, and for participation in their management.

#### **6. OTHER DUTIES**

- Irrespective of the medical specialty a student may ultimately choose, acquisition of certain basic skills is mandatory.
- Many of these skills are not generally included in didactic demonstrations or lectures but must nevertheless be learned by the student and be signed up and graded for these experiences.
- Among these skills are venipuncture, intracath insertion and intravenous infusion, foley catheter placement, nasogastric intubation, gastric washout, suture of minor lacerations under local anesthesia, proctoscopy etc.
- Familiarity with these procedures will be mandatory for all students.

#### **7. OPERATING SESSIONS AND TECHNICAL SKILLS**

- Although not expected to know details of operative techniques, students will be encouraged to participate in all operations on their assigned patients.
- Students must be familiar with the indications, principles of some operations, the surgical anatomy of the area operated on, and the complications that can occur.
- Exposure to the operating room environment, the opportunity to observe the pathology in situ has an ameliorating influence on medical education. Accordingly this will be a mandatory requirement for all students.
- In order to participate more fully in the operative event, students will be encouraged to practice suture techniques and knot tying outside the operating room as operating time cannot be used to teach students these essential skills.
- Students will also be encouraged to look up the relevant anatomy of the area to be operated on prior to attending the operation. This increases understanding and fixes the material learnt.

### **METHOD OF ASSESSMENT**

#### **EXAMINATIONS**

- A written examination, a clinical and an oral examination will be the tools for testing the student’s understanding of the material covered in the lectures, tutorials, demonstrations, conferences, and ward rounds.
- Students will be evaluated on the quality of their ward work, performance on ward rounds, tutorials, Seminars and in the operating room.
- Pass mark is 50%
- There will be a minimum of **4** Continuing Assessment Examinations during the entire course in General Surgery as follows:

- Introductory course: End of Posting examination.
  - Junior Posting: First test in the middle of the course; 2<sup>nd</sup> test – End of Posting examination.
  - Senior Posting Two Continuous Assessment tests:
    - 1<sup>st</sup> - in the middle of the course.
    - 2<sup>nd</sup> - End of Posting exam which shall be a Mock Final Examination. The mock test shall consist of
      - Parts 1 & 2 Theory papers,
      - Practical (Long and Short cases)
      - Orals.
- Marks obtained at the continuous assessment examinations will be collated and will count as **30%** of the score for the final MB BS examination in Surgery.

#### **Built in Self Assessment**

Student answers in all continuous assessment examination are used as an excellent measure of the level and effectiveness of instruction.

#### **Final MBBS Examination in Surgery**

In keeping with policy of the University, the Medical and Dental Council of Nigeria and the National Universities Commission, External Examiners from the Departments of Surgery of other universities in Nigeria and abroad shall be involved in the final MB BS examinations of the department. External Examiners will examine the course contents, quality of the examination questions, evaluate the student answers, participate in the marking and collation of results, and all other sundry events leading up to the conclusion of the final examination in Surgery.

Examinations shall be conducted along the guidelines of the College of Health Sciences of Igbinedion University and the Medical and Dental Council of Nigeria. All academic staff shall be fully involved in all aspects of the examination.

The final Examination in Surgery shall be the Final MB BS Examination in Surgery. It shall consist of

- Theory Papers 1 & 2,
- Clinicals
  - Long case,
  - Short cases,
  - Orals.

#### **SURGERY SYLLABUS**

The Syllabus of the Department of Surgery covers the requirements for teaching/training undergraduate students in Surgery for the MB BS degree of the Igbinedion University in keeping with the regulations the Guidelines on Minimal Standards of Medical and Dental Education of the Medical and Dental Council of Nigeria.

### ***Surgical Courses***

<b>Course No.</b>	<b>Units</b>	<b>Course</b>
SUG 401	3	Introduction to Surgery
SUG 402	4	General Surgery
SUG 403	3	Congenital Abnormalities and Endocrinology
SUG 404	3	Gastrointestinal Surgery
SUG 405	2	Urology
SUG 406	2	Plastic Surgery & Burns
SUG 501	3	Solid Tumors and other Neoplasms
SUG 502	2	Cardio-thoracic including Vascular Surgery
SUG 503	2	Pediatric Surgery
SUG 504	2	Neurosurgery
SUG 505	2	E. N. T.
SUG 506	2	Ophthalmology
SUG 507	2	Orthopedics
SUG 601	3	Special Topics in Surgery
SUG 602	4	Rural Posting

### **COURSE CONTENT**

- SUG 401** Introduction and approach to the surgical patient  
The surgical history and surgical physical examination
- SUG 402** Skin lesions; Wounds; Ulcers, \*Sinuses, Fistulae, Inflammation, Gangrene, Wound Healing and Dressing
- Wound Infection; Gram positive pyogenic cocci, Gram negative bacilli; Anaerobic infections; Clostridial infection; Tetanus; Gas Gangrene; Sterilization of instruments, Investigation of post operative fever.  
Wounds; Ulcers, Sinuses, Fistulae, Inflammation, Gangrene, Wound Healing and Dressing; Hernias
- Metabolic response to injury; Shock; Hemorrhage;  
Hemostasis; Blood Transfusion; Fluid, Electrolytes, acid-base balance;  
Parenteral nutrition.
- SUG 403** Breast abscess, Nipple discharge, Benign Tumors of the breast, malignant tumors of the breast, Salivary gland tumors, Sialadenitis, salivary gland calculi  
Differential diagnosis of neck swellings, Goiters, Thyrotoxicosis, Carcinoma of the thyroid thyroiditis, Thyroid function tests, Surgical aspects of hypertension, Phaeochromocytoma, Cushing's disease, Apudoma, Insulinoma, Hyperparathyroidism.
- SUG 404** Gastrointestinal pathology; Hematemesis, melena, hematochezia, Physiology of gastric secretion, Gastric function tests, Complications of gastric surgery; Peptic ulcer;

Small and large intestinal obstruction; Volvulus,  
Intussusception;

Colostomy; Ileostomy; Fecal fistula; Umbilical discharge; Ruptured spleen.  
Blunt abdominal trauma; Ascitis;

Gallstones, surgical jaundice; bile duct strictures. Pancreato-duodenal carcinoma. Pancreatitis. Subphrenic abscess, Liver abscess, surgical complications of Amoebiasis; Typhoid, Appendicitis; Tuberculosis of the abdomen. Differential diagnosis of acute abdomen; Non surgical causes of acute abdomen

Rectal bleeding; Anal pain; Ano-rectal abscesses. Fistulo in ano; Pruritis ani; hemorrhoid, anorectal abscesses, rectal prolapse.

Inflammatory bowel disease, diverticulitis, Colorectal polyps and carcinoma.

Blunt abdominal injury; Penetrating abdominal injury.

**SUG 405** Urological conditions; Hematuria, investigation of the urinary tract, Renal, Ureteric and Bladder stone, bladder tumors

Retention of urine, benign prostatic hypertrophy, urethra stricture, carcinoma of the prostate

Anuria, Renal Failure, Hydronephrosis, Renal tumors Perinephric abscess Circumcision, undescended and maldescended testis, congenital anomalies of the kidney, hypospadias, vesico-ureteric reflux; schistosomiasis and bladder cancer; lesions, ulcers hydrocele.

**SUG 406** Plastic surgery and burns; Hare lip, Cleft palate, thyroglossal cyst branchial cyts. Burns, skin graft, Keloids, Hypertrophic scars, peripheral nerve injuries, Hot and Cold burns.

**SUG 501** Surgical oncology: Tumors in general, Classification, Modes of spread, Cytotoxic chemotherapy, irradiation. Immunotherapy; Hormone therapy (ablative and additive); terminal care in inoperative malignancy. Solid tumors; benign and malignant.

Reticuloses, Hodgkin's disease, Lymphosarcoma. Carcinoma of the stomach; Gastrointestinal tract; Primary and secondary liver tumors; tumors of the reticuloendothelial system e.g. Burkitt's lymphoma.

**SUG 502** Cardio-thoracic and Vascular Surgery. Dysphagia, Esophageal lesions, Achalasia, Carcinoma of the esophagus, Esophageal diverticula. Cardiopulmonary resuscitation; pulmonary embolism; tuberculosis, cancer of the lung, bronchiectasis, Hemoptysis, varicose veins, lymphedema, deep vein thrombosis, portal hypertension, esophageal varices, Aneurysm, Occlusive vascular disease, peripheral vascular disease. Operations on the heart and heart valves, sympathectomy. Various types of asphyxia.

- SUG 503** Pediatric surgery. Tracheo-esophageal fistula, congenital hypertrophic pyloric stenosis; intestinal atresia and stenosis.
- Hirschsprung's disease, Rectal anomalies, Intussusception, urogenital anomalies in infancy and childhood. Congenital anomalies particularly the more manageable lesions of gut, exomphalos, atresia and anorectum.
- SUG 504** Neurosurgery. Head injury; Common intracranial disorders; subdural hematoma; cerebral abscess and other causes of raised intracranial pressure.
- SUG 505** ENT. Otitis, Epistaxis, Tonsillitis, Sinusitis, Nasal and oropharyngeal tumors, tracheostomy; foreign body.
- SUG 506** Ophthalmology; Conjunctivitis, uveitis, Glaucoma, Red eye, Cataract, Tumors of the eye
- SUG 507** Orthopedics and traumatology. Osteomyelitis, hand infection, septic arthritis, bone and joint TB, melanoma; club foot and other obvious skeletal deformities. Poliomyelitis, peripheral nerve injury, low back pain, sciatica, Bone tumors, Osteomalacia, Rickets, Osteoporosis, Trauma, multiple injuries, Organization of the Accident and Emergency (Traumatology Unit), Mass casualty  
Chest injury: flail chest, pneumothorax; tension pneumothorax Hemopneumothorax.  
Urinary tract injury; Ear, Nose and Throat injuries  
Vascular injury; Maxillo-facial injury; Spinal injury, tendon injury.
- Classification of Fractures, Complications of fractures  
Principles of fracture management. Common fractures of the upper limb, lower limb, pelvis, shoulder girdle, vertebra, spine, hips knees, ankle, elbow, wrist, hands and feet,  
Plaster of Paris techniques, Bandaging and Elastoplast, Splinting, Rehabilitation, physiotherapy, and Occupational therapy.
- SUG 601** Special Topics in Surgery; Immunology of transplantation, Kidney, Liver, Heart and lung transplants, dialysis.
- SUG 602** Rural Posting.

## INTRODUCTORY POSTING IN SURGERY

### LECTURES

LECTURE TOPICS
Introduction to Surgery: The Surgical Patient
Surgical History 1
Surgical History 11
Physical Examination
Examination Head, Eyes, Nose and Throat

Examination of the Chest
Examination of the abdomen
Inflammation, wounds and swellings
Fluid and Electrolytes
Shock; Hypovolemic shock
Burns
Blood and Blood Transfusion
Investigation of the Surgical Diseases
The theatre: Scrubbing, gowns and gloves

### LECTURE TOPICS JUNIOR POSTING IN SURGERY

S/No	TOPIC	HOURS
	WELCOME TO SURGERY	1 Hour
1	Wounds and Wound Healing	2 HOURS
2	Shock	3 HOURS
3	Fluids and Electrolytes 1	2 HOURS
4	Fluids and Electrolytes 2	2HOURS
5	Acid Base Changes	2 Hours
6	Inflammation, Swellings	2 hours
7	Blood and Blood Transfusion	1 HOUR
8	Burns	2 HOURS
9	Manifestation of GI Disease	2 HOURS
10	Acute Abdomen 1 Overview	2 HOURS
11	Acute Abdomen 2 Overview	2 HOURS
12	Pancreatitis	2 HOURS
13	Intestinal Obstruction – Small Bowel	2 HOURS
14	Intestinal Obstruction – Large Bowel	2 HOURS
15	Biliary Diseases 1	2 HOURS
15	Biliary Diseases 2	2 HOURS
16	Gastritis, Duodenal Ulcer	2 Hours
17	Gastric Ulcer, Outlet obstruction	2 Hours
18	Appendicitis, Peritonitis,	2 HOURS
19	Subphrenic abscess	2 Hours
20	Introduction to Neoplasia 1	2 HOURS
21	Introduction to Neoplasia 1	2 HOURS
22	Diseases of the Breast – Benign	2 HOURS
23	Diseases of the Breast – Malignant	2 HOURS
24	Gastric Cancer	2 hours
25	Cancer of the Small and Large Intestine	2HOURS
26	Non-thyroid Masses of the Head and Neck	2HOURS
27	Thyroid Gland 1	2HOURS
	Thyroid Gland 2	
	Parathyroid Gland 1	
29	Parathyroid Gland 2	2HOURS
29	Pancreatic Cancer	2HOURS
30	Hernias and their examination 1	2HOURS
31	Hernias and their examination 2	2HOURS

32	Anorectal Diseases 1	2HOURS
33	Anorectal Diseases 2	2HOURS
34	Introduction to Urology: Anatomical Overview	
35	Diseases of the Kidney 1	
36	Diseases of the Kidney 1	
37	Diseases of the Ureter	
38	Diseases of the Urethra: Hypospadias, Posterior Urethral Valve	
39	Bladder Neck Obstruction : Urethral Obstruction	
40	Bladder Neck Obstruction: The Prostate Gland	
41	Diseases of the Urinary Bladder	
42	Miscellaneous Urological Diseases	
43	Trauma in Urology	
44	Pediatric Urology	

### **Special Postings in Surgery & Related Subjects**

1. Orthopaedics and Traumatology      2 Weeks
2. Otorhinolaryngology                      2 Weeks
3. Ophthalmology                              2 Weeks
4. Anaesthesia                                 2 Weeks
5. Radiology                                     2 Weeks

### **SPECIAL POSTINGS IN SURGERY**

#### **1. ORTHOPAEDIC AND TRAUMATOLOGY**

1 <sup>st</sup> Week Thursday	2 – 4pm	Initial Assessment and Management of Injured Patient (2 periods)
Friday	12 – 1pm	Fractures in General (I)
2 <sup>nd</sup> Week Thursday	2 – 4pm	Initial Ass. And management Continues (2 periods)
Friday	12 – 1pm	Fractures in General contd. (1 period)
3 <sup>rd</sup> Week Thursday	2 – 4pm	Head Injury      (2 period)
Friday	12 – 1pm	Bone and Joint Infections (1 period)
4 <sup>th</sup> Week Thursday	2 – 4pm	Burns              (2 periods)
Friday	12 – 1pm	Clubfoot (1 period)
5 <sup>th</sup> Week Thursday	2 – 4pm	Burns contd. (2 periods)
Friday	12 – 1pm	Polio/Rickets      ( period)

### **SPECIAL POSTINGS IN SURGERY**

#### **2. OTORHINOLARYNGOLGY (ENT)**



<b>Date</b>	<b>Lecture Topic</b>
26/10/05 - Wed.	Anatomy of the Ear Symptoms of ear disease Otitis externa
7/11/05 - Monday	Acute suppurative Otitis media Chronic suppurative otitis media
9/11/05 - Wed.	Deafness
14/11/05 - Monday	Anatomy of the nose & paranasal sinuses Acute Rhinitis
16/11/05 - Wed.	Chronic Rhinitis Allergic Rhinitis
21/11/05 - Monday	Epistaxis
28/11/05 - “	Anatomy of tonsils and adenoids Acute tonsillitis Chronic tonsillitis Apendiod Hypertrophy
5/12/05 - “	Tracneostomy
7/12/05 - Wed.	Foreign bodies in ear, nose & throat
14/12/05 - Wed.	End of posting test.

**SPECIAL POSTINGS IN SURGERY**  
**3. OPHTHALMOLOGY**

<b>TOPIC</b>	<b>TIME</b>
Anatomy of the Eye Physiology of the Eye	9 – 11am
Cataract Visual Pathways & Pupillary Light Reflexes	2 – 4pm 2 – 4pm
Glaucoma	9 – 11am
Diseases of the lids & Conjunctiva Disease of the Cornea	2 – 4pm
Accommodation and it's Anomalies Refractive Errors	2 – 4pm
Pan Ophthalmritis Methods of Eye ball removal	9 – 11am
Tropical Eye Diseases	2 – 4pm
Uveitis	2 – 4pm

## Ocular Injuries

Causes of sudden & Gradual  
Loss of Vision

2 – 4pm

Common ocular  
malignancies  
(Rehnblastoma, Lids,  
Uveal Tract)

2 – 4pm

The Eye in Systemic  
Diseases (Hypertension,  
Diabetes, Thyroid diseases,  
HIV/AIDS, Measles, SSD,  
Nutritional Diseases,  
Myasthenia Gravis

2 – 4pm

## SENIOR SURGICAL POSTING

S/No	TOPICS	LECTURER/SIGNATURE	DATE
1	Appendicitis		
2	Peptic Ulcer, Zollinger Ellison Syndrome		
3	Gastric Tumors		
4	Hernia: Inguinal, Femoral, Umbilical, Epigastric, Lumbar, Spigellian		
5	Thyroid Disorders		
6	Intestinal Obstruction		
7	Intestinal Tumors		
8	Hemorrhoids, Anal Fissure, Fistulo-in-ano, Perianal abscess		
9	Abdominal Trauma		
10	Cholelithiasis		
11	Breast Diseases		
12	Pancreatitis		
13	Congenital Pyloric Stenosis Volulus		
14	Cleft Lip and Palate		
15	Hirshsprungs Disease Intussusception		
16	Management of Fractures 1		
17	Management of Fractures 2		
18	Septic and Tuberculous Arthritis, Perthe's disease		
19	Infections of the bone, Club foot		
20	Bone tumors		
21	Hiatal Hernia; Reflux Esophagitis, Diaphragmatic hernia		
22	Disorders of the esophagus, Achalasia, Esophageal stricture, Oesoph cancer		

23	Venous Diseases, Lymphedema		
24	Chest Trauma, Pneumothorax, Hemothorax, Ca Bronchus		
25	Hemoptysis, Bronchiectasis, Lung abscess		
26	Congenital Heart Diseases		
27	Pancreatitis, Ca Pancreas, Hepatoma		
28	Common ENT Diseases 1		
29	Common ENT Diseases 2		
30	Common ENT Diseases 3		
31	Common Pediatric Surgical Problems 1		
32	Common Pediatric Surgical Problems 2		
33	Common Pediatric Surgical Problems 3		
34	Common Pediatric Surgical Problems 3		
35	Urological Disease 1		
36	Urological Disease 2		
37	Urological Disease 3		
38	Disorders of the Thyroid gland		
39	The Parathyroid, Thyroglossal duct cyst		
40	Common Eye Problems 1		
41	Common Eye Problems 2		
42	Common Eye Problems 3		
43	Common Neurosurgical Problems 1		
44	Common Neurosurgical Problems 2		

**DEPARTMENT OF NURSING  
BACHELOR OF NURSING SCIENCE (B.N.Sc.) DEGREE CURRICULUM**

**ACADEMIC STAFF LIST DEPARTMENT OF NURSING**

S/N	Name of Staff	Sex	Specialty	Discipline	Qualifications Obtained with dates	Rank	Remarks
1	Ojo Adeleke A	M	Medical Surgical Nursing	Nursing	R.N. 1970, RPHN 1995, RRNT 1977, (B.Sc) Nursing 1977, M.Phil. Medical Sociology 1985, Ph.D. Health Ed. 1991	Professor	Full-Time
2	Mrs. Veronica Ugeh	F	Medical Surgical Nursing	Nursing	MSc., 2015, MHPM 1992, PGD (Nursing) 1997, R.N. 1982, R.M. 1984, RNE. 1994, DIP. ANAESTHESIA 1982.	Lecturer II (Ag. HOD)	Full-Time
3	Mr. C.C. Irodi	M	Medical Surgical Nursing	Nursing	M.ED 2009, B.Sc Nursing 1995, R.N. 1990	Lecturer II	Full-Time
4	Mrs. Obi Helen	F	Medical Surgical Nursing	Nursing	B.Sc NSG, 2004, RPHN 2004, R.M. 2000, R.N. 1997	Assistant Lecturer	Full-Time
5	Mrs. M. O. Chikogu-Ubaru	F	Medical Surgical Nursing	Nursing	B.Sc Nursing 2005, Registered Paediatric Nurse 1993, R.N. 1978, R.M. 1981	Assistant Lecturer	Full-Time
6	Mrs. R. O. Oduyemi	F	Community Health Nursing	Nursing	RPHN 2012, BNSC 2012, Dip in Nursing Admin/Mgt 2003, R.M. 1982, R.N. 1979	Assistant Lecturer	Full-Time
<b>Clinical Instructor</b>							
7	Miss. Evbu Dele-Ogbeide	F		Nursing	RN, B.Sc NSG	Clinical Instructor	Full-Time

## **INTRODUCTION**

The Bachelor of Nursing Sciences degree requires systematic acquisition of knowledge in the arts and sciences leading to the acquisition of the philosophical attitudes essential for professional Nursing practice. The BNSc program of Igbinedion University is professional as well as academic. It ensures that men and women who are genuinely interested in the Nursing profession are able to pursue an academic career like their counterparts in other disciplines.

The development of critical thinking skills through the study of Nursing theory, social and natural sciences and research, enables the individual to function as a professional for the provision of nursing care at primary, secondary and tertiary levels. The academic programme in Nursing of the Igbinedion University conforms to the motto of the University "Knowledge & Excellence".

It is therefore designed to produce nurse practitioners that can understand the social, psychological, and physical factors involved in the promotion, maintenance and restoration of health and is able to translate these factors into health needs and relate them to the appropriate health services and the broader social system of the nation and beyond.

## **PHILOSOPHY**

The philosophy of the department of Nursing Science of School of Clinical Medicine of Igbinedion University, Okada is in consonance with the philosophy of education in Nigeria and that of the Igbinedion University:

1. The nursing faculty believes that the Department of Nursing Science should have the greatest concern for service through high standards of scholarship and personal character. The ultimate purpose being the advancement of public welfare and culture through wider and deeper knowledge, finer skills, and broader appreciation of human values and the African cultural heritage.
2. The faculty believes that preparation for professional nursing should consist of liberal and professional education leading to a bachelor's degree, and should take place within a university setting. Such a nursing programme should be an integral part of the university education programme, utilizing and supporting all the facilities and activities of the institution.
3. The Nursing profession believes that man is a bio-psychosocial being and his needs are the focus of all Nursing activities. Man is a member of a family and families make up the communities.
4. The faculty believes nursing is a process of interactions, which aims to assist the individual family and community in maintaining or establishing an optimal level of healthy living. The nurse is an inherent part of the transaction, which helps the individual, family and community to modify their patterns of daily living according to their requirements. The nurse does this through the use of the analytic-synthetic process, the application of technical skills and feeling responses, and in cooperation with other disciplines
5. The faculty believes that a health team in which the individual, the family and the community play significant roles is the most effective approach to promotion, maintenance and restoration of health.
6. It is believed that a professional nursing programme should incorporate knowledge from the arts, sciences, humanities and nursing in order to ensure

sound professional training, to stimulate research and continued acquisition of new knowledge, to promote individual self development and to advance public welfare. Therefore, there should be an orderly progression in learning.

7. Professional Nursing education is built upon the theoretical base that seeks to develop continually self-directed practitioners who will advance and test knowledge on which practice is based. Current health care demands require an innovative approach in professional preparation and a curriculum that is responsive to the needs of the society.

### **AIMS OF THE DEPARTMENT**

1. To uphold the academic standards stipulated by the Igbinedion Universtiy, Okada
2. To provide a milieu conducive to learning and practicing of quality nursing care
3. To graduate professional nurses capable of providing high quality nursing care to individuals, families and communities of diverse background and in a variety of social and cultural settings nationally and globally
4. To assist students in learning to solve problems by exposing them to problem situations and by solving them in research projects
5. To provide professional nurse practitioners who will be intellectually stimulated to continually improve their practice skills through the utilization of research findings and a commitment to self development.

### **CURRICULUM OBJECTIVES:**

By the end of the academic programme in Nursing, the undergraduate is expected to:-

1. Integrate concepts and principles from the biological, social, physical and nursing sciences in the provision of comprehensive nursing care.
2. Function effectively independently and in collaboration with other members of health and related sectors.
3. Utilize the nursing process and other tools of nursing in assisting individuals, families and groups adapt to changing health needs.
4. Formulate a theoretical framework that is applicable to the nursing care of clients at the three levels of health care by using tenets from relevant sciences.
5. Incorporate the medical plan of care into nursing activities to achieve the objectives of the dependent, interdependent and independent functions of the nurse.
6. Contribute to the improvement of nursing practice by participating in interdisciplinary research, utilizing the research process and publishing research findings in nursing practice situations.
7. Appreciate the influence of culture and habits on the health status of clients and utilize this knowledge in developing clinical skills and teaching.
8. Utilize the principles of management in the administration of health care facilities and personnel.

### **COMPETENCIES OF THE GRADUATE:**

By the end of the academic programme, graduate will

1. Function dependently, interdependently and independently at the three (primary Secondary and Tertiary) levels of care, giving high quality nursing services to clients utilizing appropriate concept, models and tools of nursing practice.
2. Utilize nursing process to assess, plan, implement and evaluate nursing care needs of the individual patient, the family and the community.

3. Demonstrate clinical skills in the implementation of care using knowledge derived from the physical, social, biological and nursing sciences.
4. Maintain quality assurance and uphold accountability in professional practice.
5. Plan and implement formal and informal teaching for clients and other health personnel using appropriate principles of teaching and learning.
6. Function in an expanded role within the health team in the management of human and material resources and evaluating impact of care intervention strategies.
7. Initiate and conduct nursing research and utilize findings to improve nursing practice.
8. Participate in collaborative research with others for improving the health of population.
9. Demonstrate an appreciation of the need for improving self and others through active participation in continuous education programme.
10. Develop positive attitudes to recognize the essential worth of the individual through her/his interpersonal responses.
11. Show commitment to nursing profession and sense of responsibility for self direction and personal growth.

## **REGULATIONS GOVERNING ADMISSION INTO B.N.Sc. DEGREE PROGRAM**

### **1. MATRICULATION REQUIREMENTS**

Candidates seeking admission to pre-degree courses in Medicine at the College of Health Sciences of the Igbinedion University must satisfy the general entry requirements of Igbinedion University as well as special entry requirement for BNSc degree:

#### **(A) Entry into 100 Level**

The admission requirements are as follows:

1. Pass at the Joint Admission and Matriculation Board Examination plus
2. Igbinedion University Screening Examination/Interview plus
3. Pass at Credit level in five subjects: English language, Mathematics, Physics, Chemistry and Biology at G.C.E. (Ordinary level), West African School Certificate, (or Equivalent examinations) at not more than two sittings from same examination body.

#### **(B) Direct Entry into 200 Level**

### **REQUIREMENTS FOR DIRECT ENTRY TO BACHELOR OF NURSING SCIENCE DEGREE**

Candidates for direct entry to 200 Level in BNSC must:

- a. Satisfy the matriculation requirements as stated for candidates seeking admission into the degree course as stated above. **PLUS**
- b. Passes at Advanced Level G.C.E. or H.S.C. in Physics, Chemistry and Biology (or Zoology) at not more than two sittings **OR**
- c. Registered Nurse /Midwifery Certificate and five credits at ordinary level G.C.E. or SSCE which must include English Language, Mathematics and the followings Physics, Chemistry and Biology at not more than two sittings from same examination body.
- d. Any post-basic nursing diploma is an added advantage.

#### **(C) TRANSFER TO B.N.Sc**

- i. Transfer from others faculties of this or other Universities:

After successfully completing a B.Sc degree course in Biological Sciences/Basic or pure sciences in part or whole in this or any other university, a candidate may be considered for admission into part II of the B.N.Sc. degree of this University provided such a candidate satisfies the appropriate admission requirements as prescribed in (A 3) above

- ii. A candidate from B.N.Sc. degree programme of other recognized universities may be allowed to transfer into the programme after the Faculty has been satisfied that the candidate has genuine reason for applying for transfer and has met all the criteria for transfer into the programme. However, such transfer student shall be admitted at a level to be determined by the faculty but not higher than 300 level

### **EXAMINATION REGULATIONS**

In addition to the regular University Regulations the following shall apply to the B.N.Sc. Programme.

1. At the beginning of each course, there may be a pre-test. This test is to provide information for both the teacher and the students on the level of previously acquired knowledge.
2. Diagnostic tests and continuous evaluation will feature in all courses. The purpose being to evaluate the progress of the students in relation to the objectives of each course and provide feedbacks to enable students adjust their learning pace. The results of the above tests shall not be recorded towards the final evaluation of the students.
3. All courses in this programme are CORE except General studies (GST) and Computer (CSC) courses which may be carried over and passed anytime before graduation
4. For all clinical nursing courses from Part II to Part V, the course work shall constitute 60 percent. This is due to the importance of the clinical content of the nursing courses. The course is made up of course examinations, continuous assessment by observational rating, practical and clinical assessment, assignments and patient care studies.
5. There shall be a final examination in each course. The final examination for each course will normally consist of theory paper in addition to a practical /clinical examination with or without oral examination. Each course final examination shall be conducted immediately after the course according to University Examination Regulations.
6. A student shall only be allowed to sit a any examination in a course on the condition that she/he has attended at least 75 percent of classes and clinical experiences, and completed all assignments and paid all prescribed fees as stipulated by the University.
7. The pass mark for all courses in parts one and two shall be 40% as applicable to University grading system except nursing courses, while all other courses from part three to five shall be 50%.

### **Weighting of Examinations**



8. Parts I & II – Weighting of all examinations shall be as applicable in the various faculties/departments for the courses with 40% as pass mark.
9. Pass mark for Part II courses in the College of Health Sciences (except nursing course) will also be 40% and re-sits for courses shall apply to the B.N.Sc students as obtained in the College.
10. All students at 100 – 200 levels shall have opportunity to do summer school if the CGPA is above 1.0
11. Any student whose CGPA is below 1.0 shall withdraw from the programme.
12. A candidate at 100 level who fails more than two core courses after summer school shall repeat the year.
13. A candidate at 100 level who fails one or two core courses after summer school shall carry over to 200 level.
14. No candidate shall carry over any core course to 300 level or to any further levels.
15. All sessional courses with parts 1 and 2 shall have in-course examination at the end of first semester and end of course examination at the end of second semester.
16. From part III – V Summer school will be only for candidate who fail 1 or 2 core courses and any failure leads to repeat the year and failure in repeat year earns withdraw from programme.

**Weighting shall be as follows:**

Part III – V: All courses except where specific situations are reflected shall follow this format.

One Theory Paper 3 hours

Essay	-	40)
Objective	-	60) = 60%)
Course work	-	40%) 100%

OR

One Theory Paper 3 hours

Essay	-	40)
Objective	-	60) = 50%)
Course work	-	20%) 70%
Clinical/Practicals	-	30%) 100%

NSC 452 - Teaching and Management Practical 100%

Part V

NSC 541	-	One Theory paper 3 hours
		Essay - 40)
		Objective - 60) = 60%)
		Seminar Presentation) - 40%) 100%

NSC 542 - Research Project 100%

17. All clinical nursing specialties – Medical -Surgical Nursing, Maternal & Child Health Nursing and Midwifery, Psychiatric & Mental Health Nursing as well as Community Health Nursing shall follow same schedule of examination weighting at the end of each session as follow:-

<u>One Theory Paper 3 hours</u>		
Essay	-	40)
Objective	-	60) = 60%)
Course work	-	40%) = 100% = 50%
Project/case studies	-	100% = 10%
Practical/Clinical	-	90)
Orals	-	10) 100 = 40%)
		100

### 18. MODERATION OF EXAMINATIONS

External Examiners shall moderate examinations at all levels. However, since all courses at 100 and 200 levels are taken outside the department (except FON) moderation shall be done in all such departs. External Examiner(s) shall therefore moderate examinations in the department from 300 to 500 level. Such examiner(s) must come for the moderation of 400 and 500 levels since clinical and oral examination at both levels are involved.

### 19. AWARD OF DEGREE

The degree shall be awarded to candidates who have complied with the general regulations of the University and the additional requirements of the B.N.Sc. Degree Programme.

For any candidate to graduate from this programme, he/she must have taken and passed All relevant courses in this curriculum. He/she must also have taken and passed general nursing qualifying examination of the N&MCH.

Cumulative grade point average (CGPA) for the award of the degree shall be calculated from year two to five. Percentage contribution to the final grading shall be as follows:

Year II	-	10%
Year III	-	20%
Year IV	-	35%
Year V	-	35%
Total	-	100%

### 20. Degree Format

The degree shall be awarded with first class honours, second class honours (upper or lower) and third class as follows:

CGPA	CLASSIFICATION
4.50 – 5.00	- First Class
3.50 – 4.49	- Second Class (Upper Division)
2.40 – 3.49	- Second Class (Lower Division)
1.50 – 2.39	- Third Class
Less than 1.50	- Fail

## 21. Professional Examination

Students shall be presented for the following Professional Examinations as follows:-

1. Indexing: - Undergraduate students of the BNSc programme shall be presented for indexing at the beginning of 300 level having passed all parts I & II courses without any carry-over.
2. At the beginning of 500 level indexed students shall be presented for the N&MC of Nigeria final qualifying examination for General Nurses, having passed all Part IV courses.
3. A pre-qualify/screening examination using councils format and procedures shall be conducted by the department and only students who passed such examination shall be presented.
4. Presentation of students for the N&MC of Nigeria final qualifying examination for midwives shall be at the 2<sup>nd</sup> semester of 500 level either in march or September of that year provided that the result of final qualifying examination for general nurses that the students sat for had been passed.
5. Presentation of students for final BNSc degree examinations shall be on condition that the students have passed N&MC of Nigeria final qualifying examination for General Nurse and is registered and licensed by the Council.
6. Presentation of students for WAHEB for Public Health Nurses shall be after graduation through the department.

### (C) DURATION OF COURSE:

The duration of the BNSC degree course is (5) five years for U.M.E. qualified candidates and (4) four years for Direct Entry and transfer candidates.

## SCHEDULE OF COURSES

### 100 LEVEL

### FIRST SEMESTER

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S/NO	CODE	TITLE	U	L	T	P
1.	PHY 113	Thermal Physics	3	3	0	0
2.	“ 112	General Physics	3	2	0	4
3.	CHM 111	General Physical Chemistry	3	2	0	4
4.	“ 112	General Organic Chemistry	2	1	1	0
5.	ZOO 111	Introductory Zoology 1	3	2	1	0
6.	BOT 111	Diversity of Plants	3	2	1	0

7.	GST 111	Use of English & library	2	2	0	0
8.	GST 112	Nigerian History and Culture	2	0	0	0
9.	SAA 111	Introduction to Sociology	3	3	0	0
TOTAL			24			

Key: U = Units / Semester  
L = Lecture Hours / Week  
T = Tutorial Hours / Week  
P = Practical Hour / Week

#### SECOND SEMESTER

S/N	CODE	TITLE	U	L	T	P
1.	PHY 122	Modern Physics	3	3	0	0
2.	" 123	Waves, Optics and Vibration	3	2	1	0
3.	CHM 122	General Organic Chemistry II	2	1	1	0
4.	CHM 121	General Inorganic Chemistry	3	0	0	0
5.	BOT 121	Plant Structure and Function	3	2	1	0
6.	ZOO 121	General Zoology II	3	2	1	0
7.	GST 121	Entrepreneurial studies	2	2	0	0
8.	GST 122	Philosophy, ethics, logic & law	2	2	0	0
9.	GST 123	History of Philosophy of Science	2	1	0	0
10.	PHY 100	Physics' practical	1	0	0	3
11.	MTH102	Mathematics	2	2	0	0
TOTAL			26			

FON 1 – (2 wks) Pre 2<sup>nd</sup> Year Course NSG 200. Lectures

#### FIRST SEMESTER 200 LEVEL

S/NO	CODE	TITLE	U	L	T	P
1.	NSG 200	Foundation of Nursing I	3	2	0	4
2.	COM 201	Biostatistics	2	2	0	0
3.	ANA 211	Gross Anatomy I	5	4	0	4
4.	ANA 212	Introduction to Histology	2	2	0	0
5.	ANA 213	General Embryology	2	2	0	0
6.	PHS 201	Introd. to Gen.& Excitable Physiology	5	4	0	4
7.	BCH 211	Introduction to Biochemistry	2	2	0	0
8.	POL 211	Nigerian government and Politics	3	3	0	0
9.	CSC 113	Computer Application	2	2	0	0
TOTAL			26			

**END OF FIRST SEMESTER** \* Conc. Practical demonstration of NSG – 1 week

#### SECOND SEMESTER 200 LEVEL

S/NO	CODE	TITLE	U	L	T	P
1.	NSG 200	Foundation of Nursing II	3	2	0	4
2.	ANA 221	Gross Anatomy II	3	3	0	4
3.	ANA 222	Systemic Histology	2	2	0	0
4.	ANA 223	Systemic Embryology	2	2	0	0
5.	PHS 203	Resp., Renal / GIT Physiology	4	4	0	0
6.	MCB 206	Medical Microbiology & Parasitology	3	3	0	0
7.	SAA 227	People and Cultures of Africa	2	2	0	0
8.	BCH 212	Nutrition & Metabolism	3	3	0	0
TOTAL			22			

Pre-Part III \* Conc. Clinical Posing Med-Sug Nursing (8 weeks)

### FIRST SEMESTER 300 LEVEL

S/NO	CODE	TITLE	U	L	T	P
1.	NSG 301	Human Behaviour in Health/Disease	2	2	0	0
2.	“ 303	Medical Surgical Nursing I	8	6	0	8
3.	“ 305	Community Health Nursing I	4	3	0	4
4.	NSG 307	Man, His Family & Environment	3	3	0	0
5.	COM 305	Nutrition & Applied Dietetics	2	2	0	0
6.	PCO 312	General Principles of Pharmacology	2	2	0	0
7.	NSG 317	Nursing Ethics & Philosophy	3	3	0	0
TOTAL			24			

END OF FIRST SEMESTER Comm. Health Nursing Posting (2 weeks).

### SECOND SEMESTER 300 LEVEL

S/NO	CODE	TITLE	U	L	T	P
1.	NSG 302	Developmental Psychology Applied to Nursing	2	2	0	0
2.	“ 304	Medical Surgical Nursing II	8	6	0	8
3.	“ 306	Maternal and Child Health Nursing I	3	3	0	0
4.	COM 302	Environmental Health	3	3	0	0
5.	PCO 423	Systemic Pharmacology (GIT, Resp, Renal, Cardiovascular)	4	4	0	0
6.	PATH 312	General Cellular Pathology & Cytology	3	3	0	0
TOTAL			23			

- During Semester: CHN/MCH (4 weeks)
- PRE-PART IV Concentrated Clinical (Med. Surg. 6weeks) \* Clinical Posting (MCH) (4 weeks)

### FIRST SEMESTER 400 LEVEL

S/NO	CODE	TITLE	U	L	T	P
1.	COM 403	Principles of Epidemiology & Disease Control	3	3	0	0

2.	NSG 401	Medical Surgical Nursing III	8	6	0	8
3.	“ 405	Curriculum Dev. & Teaching Methodology	3	3	0	0
5.	“ 407	Psych/Mental Health Nursing I	4	3	0	4
6.	“ 409	Maternal and Child Health II	4	3	0	4
7.	ECO 417	Health Economics	3	3	0	0

TOTAL 25

- During semester – 6 weeks ( end of semester) M.C.H. clinical posting.
- End of semester University Exams after posting

### SECOND SEMESTER 400 LEVEL

S/NO	CODE	TITLE	U	L	T	P
1.	NSG 402	Management of Nursing Care Services	2	2	0	0
2.	“ 404	Research Methodology Applied to Nsg.	3	3	0	0
3.	“ 406	Teaching/Management Practice	2	0	0	8
4.	“ 412	Medical-Surgical Nursing IV	8	6	0	8
5.	“ 410	Maternal and Child Health Nsg. III	6	4	0	8

TOTAL 21

- During semester 6 weeks Psychiatric/ Mental Health Nursing (Beginning of 2<sup>nd</sup> Semester)
- PRE-PART V: Clinical Posting : Med. Surg. Nsg. 10weeks September - November

### FIRST SEMESTER 500 LEVEL NMCN General Nursing Qualifying Exams

S/NO	CODE	TITLE	U	L	T	P
1.	NSG 501	Community Health Nursing II	6	4	0	8
2.	“ 503	Maternal and Child Health Nursing IV	8	4	0	16
3.	“ 504	Nursing Research Project I	3	0	0	6
4.	NSG 507	Special Topic Seminar I	1	1	0	2
5.		ONE ELECTIVE	4	3	0	4

TOTAL 22

- During semester MCH posting – 6 weeks (End of semester – beginning of 2<sup>nd</sup> semester)
- Midwifery Exam in March.

### SECOND SEMESTER 500 LEVEL

S/NO	CODE	TITLE	U	L	T	P
1.	NSG 502	Community Health Nursing III	8	6	0	8
2.	“ 518	Mental/Psychiatry Health Nursing II	3	2	0	4
3.	“ 505	Nursing Research Project II	3	0	0	6
4.	“ 516	Nursing Entrepreneurship	2	2	0	0
5.	“ 508	Special Topic Seminar II	1	1	0	2

6.	ONE ELECTIVE	4	3	0	4
	TOTAL	21			

- During semester CHN posing – 8 weeks
- Special elective Posing – 4 weeks

### 500 LEVEL SPECIAL ELECTIVES IN NURSING

				U	L	T	P
1.	NSG	506	Paediatrics Nursing	4	2	0	8
2.	“	507	Perioperative Nursing	4	2	0	8
3.	“	509	Ortho-Rhino-Laryngology Nsg.	4	2	0	8
4.	“	511	Occupational Health Nursing	4	2	0	8
5.	“	513	Anaesthetic Nursing	4	2	0	8
6.	“	515	Ophthalmic Nursing	4	2	0	8
7.	“	508	Intensive Nursing Care	4	2	0	8
8.	“	510	Orthopaedic Nursing	4	2	0	8
9.	“	512	Dermatology Nursing	4	2	0	8
10.	“	514	Radiology Radiotherapy	4	2	0	8
11.	“	517	Geriatric Nursing	4	2	0	8

Any one of these must be taken each semester at 500 level as acceptable to the department.

### NOTES SPECIFIC FOR B.N. SC STUDENTS

1. The B.N.Sc programme runs continuously from 200 level to end of programme i.e. lectures, laboratory demonstrations and clinical postings and Examinations during semesters and University Holidays shall run continuously
2. All professional examinations are to be processed by the department and students shall be responsible for the cost. This is outside the regular university fees etc.
3. Professional rules and regulations, ethics, uniforms, full attendance at clinical postings, clinical assessments and projects are to be complied-with by all students.
4. Appropriate sanctions will be applied to defaulters which may include suspension from attending clinical posting etc.

### SUMMARY OF TOTAL UNITS – 5 YRS PROGRAMME

Year	Lecture & Lab Semester Nursing courses	Practical Clinicals	During built into	Concentrated Clinicals during Vacations	Total
	Semester		Units	Units	Units
I	1		24	-	50
	2		26		
	Pre part II FON		50		
II	1		26	5	53
	2		22		
			48		
III	1		24	8	55
	2		23		
			47		

IV	1	25	8	54
	2	21		
		46		
V	1	22	3	46
	2	21		
		43		
Total Units		234	24	258

### **COURSE DESCRIPTION**

#### **FIRST YEAR (100 LEVEL)**

##### **1ST SEMESTER**

##### PHYS 113 – Thermal Physics: (3 units)

Heat and Temperature. Thermometers and scales of temperature .Changes of state, Latent heat ,Critical points, Calorimetric, specific heat. Gas laws: Isothermal and adiabatic changes. Changes: kinetics theory of gases. Heat transfer: Conduction, convection, radiation. Black body radiation, energy spectrum, Stefan’s law, Weins’ law.

##### PHY 112 –General Physics (3units)

Work, Power, Energy, Momentum, Conservation laws-conservation of energy and momentum periodic motion of an oscillator, velocity acceleration of a sinusoidal oscillator. Equation of motion of a simple harmonic oscillator, damped oscillator, forced oscillation, elastic properties of solids, module of elasticity, fluid mechanics and hydrodynamics.

##### CHEM 111 – General Physical Chemistry (3 Units) Plus Practical

Atoms. Daltons atomic theory, atomic masses, Fundamental particles of atom. Atomic structure. Modern electronic theory of atoms. Periodicity of the elements. Mole concept. Chemical formulas, equations and calculations. State of matter: gas, liquids and solids. Energetics and thermochemistry. Chemical kinetics, equilibrium and electrochemistry.

##### CHEM 112– General Organic Chemistry I (2 Units)

Historical survey of the development of importance of organic chemistry. Nomenclature and classes of organic compounds. Homologous series. Functional groups, isolation and purification of organic compounds. Qualitative and quantitative organic chemistry. Resonance and inductive effects. Stereochemistry.

##### ZOO 111 – Introductory Zoology (3 Units)

Man population growth and the impact on the biosphere, Faunal biodiversity. Invertebra; protozoa, coelenterata, platyhelminthes, annelida, mollusca, arthropoda, Vertebra; cephalochordata, pisces, amphibian, reptilia, aves, mammalia, Mammalian anatomy; anatomy of rattua rattus.

##### BOT 111 – Diversity of Plants: (3 Units)

Introduction to plant science: Diversity of living organisms, habitats, life forms, mode of nutrition, size, shape etc. Elements of ecology and common features of living organisms.; Nomenclature and classification. Plant cells, function of organelles. Brief survey of viruses, bacteria, PPLO; General survey of plants in the five kingdoms, highlighting their life cycles and evolutionary relationship.



GST 111 – Use of English & library (2 Units)

As in department of English.

GST 112 – Nigerian History and Culture (2 Units)

The course is designed to examine the effect of environmental factors on the health of the community, community assessment and action to improve the quality of the environment is emphasized. Man and his physical environment. Environmental factors that affect health; noise, gas pollution, waste products, air, water. Environmental sanitation: waste disposal, vector control, housing and water supply. Food hygiene.

Rural-urban migration. As in the course outline for university

SAA 111 – Introduction to Sociology (4 Units)

It is designed to provide knowledge about the social interaction of persons and groups, analysis and principle of group lines, the processes of socialization, social structure including family, race, relations social class and social change.

**SECOND SEMESTER**

CSC 113 – Computer Application (3 Units)

General introduction to Computer Science, Computer Hardware, History of Computers, Generation of Computers, Evolution and types of Computers, Classification of Computers, Architecture, data representation in memory, Typical computer configuration. Computer software (History and Generation, Software types programming, Languages and features, Introduction to windows and DOS operating system), Programming Steps, Organization chart of computer system, Categories of Computer application, Use of computers, Advantages and Disadvantages of computers, Introduction to word processing, Data communication ( Basic concept & methods, Computer networks, Internet and Email concept ), Data processing (Properties, type of processing, Batch processing ), Number representation (Binary mathematics, Number conversion), Computer viruses and protections.

PHY 122 – Modern Physics I Plus practical (3 Units)

Atomic nature of matter, discovery of electron quantization, of electricity, (millikans experiment) cathode rays, measurement of electric charge, specific charge (e/m);

Structure of the atom, atomic models-Thompson's model; Rutherford's nuclear model. Bohis model: the hydrogen atom. The nuclear: structure of the nuclear; size binding energy of the nuclear,; binding fraction; packing fraction. X-rays-production and property of x-rays, application of x-rays; x-ray diffraction; Braggs equation; x-ray spectra (continuous and line spectra ) Moseley equation and application. Planck quantum theory; de-brag lies hypothesis wave particle duality. Radioactivity – natural and artificial radioactivity; detection of radiation.

PHYS 123 – Waves, Optics and Vibrations (3 Units)

Waves – types, characteristics and propagation of waves in material medial.

Vibrations in solids; propagation of sounds in solids, liquids and gas. Sound wave.

Wave theory of light; polarization of light. Rectilinear propagation of light reflection, refraction; mirrors; lenses; lense combinations , optical instruments. Doppler effect. Echo; Sound ranging ultrasonic and application of these.

CHM 122 – General Organic Chemistry II (2 Units)

Polar functional group chemistry. Alcohols and phenols. Aldehydes, and ketones. Carboxylic acids and derivatives (anhydrides, acid halides, amids ).Amino acids, fats and oil.carbohydrates and natural products.

CHM 121 General Inorganic Chemistry (3 Units)

Periodic Table and periodic properties. Chemical bonding and thory. Hybridization structure of solids. The chemistry of selected representative elements. Qualitative analysis. 45h (T)

BOT 121 Plant Structure and Function (3 Units)

This course if designed to familiarize the student with activities of living things,t he cell its general structure and activities, viruses, chromosomes, prokaryotic and eukaryotic cells. Fungi and algae etc., General structure anatomy and physiology of the stem, root, leaf and flower and floral diversity

ZOO121 General Zoology II (3 Units)

This course if designed to explore the structure and function of animals and to extrapolate to human’s relevant findings. It includes animal embryology, development and metabolic physiology. The physiology covers vertebrates and invertebrates

GST 121 – Entrepreneurial studies. (2 Units)

As in division of general studies student handbook of IUO.

GST 122 Philosophy, ethics, logic, and law. (2 Units)

As in division of general studies student handbook of IUO

GST 123 – History and science (1 Unit)

As in division of general studies student handbook of IUO.

MTH 102 – Mathematics (2 Units)

The course is designed to enable the students acquire knowledge of general mathematics necessary for mathematical calculations in the practice of nursing.

Numbers: Natural numbers, integers, rational numbers, bases, operational with surds, ratio, proportion and percentage

Graphs: The cartesia plane, plotting of a graph form a table of values and graphical treatment

Geometry: Angles and parallel line construction on loci, angle, properties of circle, measuration, perimeter circumference, surface areas, volume

**SECOND YEAR (200 LEVEL)**

**FIRST SEMESTER**

NSG 200 – Foundation of Nursing I (3 Units)

The course provides knowledge about Nursing as an art and science, Health and Disease, Health Care Delivery System, Trends in Nursing History and Nursing Education, Philosophies of Nursing, Professionalism, Nursing Etiquettes and Ethics Basic Concepts and Nursing Care, Admission and Discharge, Bed making and appliances, Positioning, Bed bathing and Oral Care Vital signs, etc

COM 201 – Bio-statistics: (2 Units)

The course introduces the student to the statistical process and various statistical methods in common use. It deals with the collection, compilation, analysis, presentation of data, and the drawing of conclusions from statistical analysis. Cumulative distributions measures of location and regression. Simple concepts of probability distribution and density.

Basic inference about population, mean estimation and test based on large and small samples

ANA 211 – Gross Anatomy I (Upper & Lower limbs) (5 UNITS).

This covers Bones, Joints, Muscles, Blood vessels, Nerves,

ANA 212 – Introductory Histology(2 UNITS)

Introduction to the cellular system and tissues of the body

- Epithelium
  - Connective Tissues
  - Muscles
  - Nerves
  - Blood
  - Skeletal tissues
- Tissue preparatory techniques

ANA 213 – General Embryology (2 Units)

Introduction to Embryology, Male and Female Genital Systems, Gametogenesis, Spermatogenesis and structure of sperm, Oogenesis and structure of the ovum, Uterine cycle and ovarian cycle, development of the graafian follicles and ovulation, Fertilization, cleavage, morula, Blastocyst formation, Formation of Bilamina Disc, Amniotic cavity, yolk sac, Implantation, Trilamina layer, Intra embryonic Coelom Formation, Formation of human embryo, Primitive streak, Sommites, Blood and vessel formation, Folding of the embryo, Germ layer derivatives, Method of measuring embryonic age.

PHS 201 – Introduction to General and Excitable Tissue Physiology (5 Units).

Introductory to cell structure and function, Transport system, Osmosis, Diffusion and active transport, Homeostasis, Control system and feedback mechanisms, Introduction to body fluids and electrolyte compartments, Excitable and contractile cells, e.g Nerve structure, action potential, muscle structure, excitation contraction coupling

BCH 211 Introduction to Biochemistry (2 Units)

Importance of Biochemistry to other scientific disciplines, Structure of the cell, Cell organelles, Cell types, Integration of cellular functions, Analytical techniques in Biochemistry, Cell fractionalization, Chromatography, Electrophoresis, Centrifugation, Spectrophotometry, Solution, Osmotic pressure, Acids and Bases, pH and Buffers, Chemical Kinetics, Revision of basic chemistry.

POLS 211 – Nigerian Government & Politics I (3 Units).

The course introduces the student to social organization and mechanisms of government. It stresses the needs and problems of politics as they affect Nigeria, Africa and the health professions.

Introduction to political science and African politics dependence, struggle for independences of African States. Politics in Africa as it affects the development of African people and the health profession. Nigerian politics as it affects Nursing profession. Elements of

Administration, rule of law, role of the executive, legislature and the judiciary. Political parties pressure groups. The role of the media

## **SECOND SEMESTER**

### **NSG 200 – Foundation of Nursing II** (3 Units)

It provides the foundation of the nursing process and the utilization of scientific principles in the practice of Nursing, Nursing care plan. Prevention and control of infection, Health education. Simple Diagnostic Test, Hospitalization, Pain, Stress, Body fluids and electrolytes, Maintaining safe environment, Ward cleaning, Asepsis, Feeding an ill patients, Care of the dying and last offices.

### **ANA221–Gross-Anatomy-II** (5 Units)

Gross anatomy of the thorax, abdomen, pelvis, and perineum.

### **ANA 222 Systemic Histology**(2 Units)

Gastrointestinal system, Respiratory, Lymphoid organ, Skin and its appendages, Urinary tract, Cardiovascular system.

### **ANA 223 Systemic Embryology** (2 Units)

Placenta, Fetal membranes and body cavities, Diaphragm, Development of the body system.

- a. Respiratory system
- b. Cardiovascular system
- c. Gastrointestinal system
- d. Urinary system
- e. Endocrine system

Bronchial and Pharyngeal apparatus, Muscular system, Skeletal system, Integumentary system, Nervous system, Chromosomal Anomalies.

### **PHS 203 – Respiratory, Renal and Gastrointestinal physiology** (4 Units)

This course introduces the students to respiratory physiology, functions, pulmonary ventilation and function test, acid base balance and control for respiration. Physiology anatomy of the kidney, glomerular filtration rate, counter current mechanism, rennin-angiotensin-aldosterone mechanism and micturition. Structure and innervation of Gastrointestinal system, Gastrointestinal hormones, Deglutton and Digestion, Absorption of water, electrolyte and Nutrients.

### **MCB 206 – Medical Microbiology and Parasitology** (3 Units)

The course covers the study of the characteristics and classification of microorganisms. It enable the student identify infective agents that cause disease in man and to apply the knowledge of disease processes in terms of personal and communal health.

Introduction to microbiology, characterization and classification of bacteria. Morphology, Physiology, reproduction and metabolism of bacteria.

Hos – parasite relationship. Infection, pathogenicity and virulence. Exo and end toxins. Susceptibility and resistance to infection Natural resistance phagocytosisantibodies, natural and acquired immunity. Immunization – active and passive, anaphylaxis, hypersensitivity and allergy control of micro-organisms, sterilization, disinfections. Chemotherapeutic agents, Antibiotics.

SAA 227 People and Culture of Africa (2 Units)

The study and criticism of ethnographic description of African societies, people and their culture both as scientific reporting and as literary art form. Emphasis will be on the comparative and contrasting analysis of kingship, marriage, local groupings, economic, political and religious cosmologies value systems and philosophies and the problems

BCH 212 Nutrition and Metabolism. (3 Units)

Enzymology, Principles of Nutrition, Metabolism of Carbohydrates, Glycolysis, Glycogenesis, Glyconeogenesis, Peothose phosphate pathway, TCA cycle, Glyoxygalate cycle. Energy metabolism and bioenergetics, Metabolism rate, Calorie deficiency states, Vitamins and co-enzymes, Mineral deficiency.

**300 LEVEL**

**FIRST SEMESTER**

NSG 301 – Human Behaviour in Health and Disease (2 Units)

Characteristics of the family in health and disease. The Germ Theory as a way of explaining the concept of disease. Demography and population dynamics. Patterns of life in the Community and how these are affected by disease. How patterns of life and community organization affect health care delivery.

NSG 303 – Medical-Surgical Nursing I (8 Units)

The course is designed to enable the students acquire in-depth knowledge of medical-surgical problems and to identify her role as a professional nurse in the care of adults and children with medico-surgical problems in the primary, secondary and tertiary settings of health care. Experience is provided in the care of selected individuals and families to facilitate the transfer of theory to nursing practice situation. Theoretical models of care are emphasized. Pathophysiology of medico-surgical problems. Integumentry & Musculoskeletal Systems Dimensions of nursing practice, the nursing process levels of health care. Theories, concepts and principles of care:

NSG 305 – Community Health Nursing I (3 Units)

The course utilizes the social systems theory in the provision of community health care. Application of principles of epidemiology is emphasized in the maintenance of optimum wellness. The social system theory. Analysis of the family and significant others. Assessment of the community – environmental and community health services. Philosophy, components and principle of primary health care settings. Development of physical assessment skills. Assessment of the family. The interrelationship of social and physical environment on health. Organization and coordination of community health services.

NSG 307 – Man, The Family and Community (3 Units)

The course is designed to enable the students acquire knowledge of the socio-cultural development of man, the family and the community, it emphasizes the interaction between the community and the environmental forces that affect health. The importance of culture, the family and kinship is considered in the evaluation of population dynamics. The individual, family and kinship is considered in the evaluation of population dynamics. The individual, family community and civilization. Culture, race, ethnicity and communication.

Environment: rural urban, demography and population dynamics. The role of the nurse in demographic data collection.

Fertility: family type and size

Mortality: life expectancy, illness, death and the dying. The Germ theory as it relates to the concept of disease patterns of life in the community and its relationship with disease. Health protection, life patterns and disease states. Diagnostic tests in health assessment.

#### COM 305 – Nutrition and Applied Dietetics (2 Units)

The course describes nutrition in health and illness with emphasis on food classification, nutritional values of common Nigerian foods, culture and nutrition, breastfeeding and weaning practices

Also covered are infection and nutrition, food hygiene and toxicology as well as nutrition education.

Applied dietetics I

Diet in the aetiology and management of various diseases.(Kwashiorkor, Marasmus, Vitamin Deficiencies, Mineral Deficiencies, Obesity, Hypervitaminosis etc.)

Applied Dietetic II

Diet in the aetiology and management of diseases (Diabetes, Essential Hypertension, Coronary Heart disease, liver failure, goiter, myxoedema, cretinism, dental caries, anemia)

Assessment of nutritional status of community.

#### PC0 312: General principle of pharmacology (2 Units)

The scope of pharmacology; Origin and sources of Drugs, routes of Administration of drugs; Biotransformation of Drugs; Excretion of drugs; Biotransformation of Drugs; Mode of Action of Drugs; Types of Drug Action; Drug Action in Man; Compliance; Individual Variations; Presence of other drugs; Genetic Effects; Tolerance and Tachypylaxis; Effects of Diseases; Drug Toxicity; Adverse Drug reaction

#### NSG 317: Nursing Ethics and Philosophy (3 Units)

This course is designed to enable the student identify nursing ethnics as a component of medical ethnics in her practice as a member of the health team. It introduces the student to the status and common law as they affect the nursing profession and nursing practice. It enables her to develop a personal philosophy of nursing.

Philosophy of nursing practice

Foundation of nursing ethics (National and international) Nursing in Nigeria (Problems and prospects). Laws and regulations governing nursing practice in Nigeria.

Ethical considerations and dilemmas

Nursing ethics as it relates to the health team

Ethical/moral principles

Professional ethics and constraints imposed by institutions

The health care system and individual rights: informed consent, abortion, dying and death, behaviour control.

Discussion of ethical dilemmas

The nurse as an advocate

### **SECOND SEMESTER**

#### NSG 302 – Developmental Psychology as applied to Nursing (2 Units)

Emphasis is on growth and development of the individual from conception to senescence and their parameters of measurements; individual differences and their assessment; learning-

memory thinking; sensation and perception, motivation; emotions and personality. An in-depth study of the psychological aspects of man and the family and further application of psychological concept and theories to nursing.

#### NSG 304 – Medical-Surgical Nursing II (3 Units)

The course is designed to build upon the content covered in NSG 303 and to expand the knowledge based on disease processes as they affect the systems of the body. Concept of cellular growth and proliferation, medical care and scientific nursing management of clients with specific acute and chronic ailments. Dynamics of fluid and electrolyte balance. Concept of metabolism: disturbances of ingestion, digestion and elimination, hepatic functioning, glucose metabolism and hormonal disturbances. Concept of oxygenation and hormonal disturbances of oxygen carrying mechanism, blood pumping mechanism and vessel disruptions. Concept of perception and co-ordination. Vascular and inflammatory disturbances. Nurses' role in the operating theatre, intensive care unit, ward and clinic situation.

#### NSG 306 – Maternal And Child Health Nursing I (3 Units)

The course deals with the health of the family during its child bearing and child rearing years, emphasizing the needs of mother and the newborn during the maternal cycle, the role of the nurse in family planning and genetic counseling. History of maternal and child health nursing. National and International. The reproductive phase of the life cycle. Obstetric and gynecological conditions. Family planning and family health. Application of the nine tenets of P.H.C. Child welfare and school health programmes. Family health care.

#### NSG 306 – Maternal and Child Health Nsg I (3 Units)

History of MCH – National and international, pregnancy, antenatal care, disorders of pregnancy

Review of anatomy and physiology, female reproductive system, normal and abnormal labour, health of the family during child bearing years

#### COM 302- Environmental Health

The course introduces students to the scope of environmental health, components of environmental sanitation, water, food hygiene, housing and disposal of wastes. Socio-Cultural factors in health and illness, Disease causation in environment and control of Hazards.

It also covers control of vectors, air hygiene and control of atmospheric pollution. Accidents and disaster management as well as environmental health legislations and occupational health. Community assessment and measures to improve community health

#### PCO 323: SYSTEM PHARMACOLOGY (4 Units)

-Cardiovascular

- Renal

- Gastro intestinal (GIT)

- Respiratory

(a) GIT pharmacology ( 1 credit) (including hypolipidaemic drugs)

Vomiting – antiemetics, constipation – purgatives

Antacids – anticholinergics – H<sub>2</sub> receptor antagonists – Ulcer healing drugs; gastrointestinal hormones – Pentagastrin – Secretin, Non specific antidiarrhoeal Drugs; lactulose, lipid disorders, cholestyramine, pancreatin, cholecystokinin, hypolipidaemic drugs

(b) Respiratory Tract Pharmacology (1 credit)

Oxygen therapy, bronchodilator drugs; asthma, cardiobronchial asthma; status asmaticus; cough suppressants; mucolytics agents; respiratory stimulants

(c) Renal Pharmacology (1 Credit)

diuretics, alteration of urinary pH, Urinary Tract Infections, Renal Failure, immunity; immuno-suppressive agents in kidney transplant; heamodialysis treatment

(d) Cardiovascular Pharmacology (1 credit)

Heart Failure and its drug management; Antianginal Drugs; Ischaemic Heart Disease and its Drug management; Antiarrhythmic Drugs; Hypertension and its drug management; vasodilators

PATH 312 – General Cellular Pathology and Cytology (3 Units)

The course covers general mechanisms, the pathogenesis of disease and the dynamic nature of disease as it evolves from its incipient stage to its full expression.

The effect of disease on organs and distant parts of the body are discussed. Pathology and the nature of disease. Chemistry of cell damage and the dying cell. Inflammation and infection. Inflammatory response and chemical mediators. Immunity and cellular immune response. Principles of repair and re-organization of cell structure.

#### **400 LEVEL**

#### **FIRST SEMESTER**

COM 403: PRINCIPLES OF EPIDEMIOLOGY AND DISEASE CONTROL

The course is designed to expose students to definition and history of epidemiology, diseases and their determinants. Principle and control of disease control, uses of epidemiology, levels and epidemiological transition. Infective agents and risk factors in epidemiology of communicable and non-communicable diseases.

Also covered will be epidemiological methods, management information system in disease surveillance and screening.

NSG 401 – MEDICAL-SURGICAL NURSING III (8 Units)

This course focuses on special areas in medico surgical Nursing such as ophthalmic (eye) ear, nose and throat (E.N.T) Dermatological conditions. Nervous system disorders. Also included are care of patients with abdominal growths and special therapies.

NSG 405 – CURRICULUM DEV. IN NURSING & TEACHING METHODOLOGY

(3 Units)

Curriculum Development involves an over view of course, thereby the student looks at the course critically and objectively as a functional instrument. It involves the development of institutional philosophy, objectives, course contents, resources and personnel selection, methods of teaching, organization of teaching materials and evaluation.

NSG 407 – MENTAL HEALTH AND PSYCHIATRIC NURSING (2 Units)

The course aims at providing students with psychopathological basis of mental illness including symptomatology process and resolution. Various categories of mental illness and their management will be discussed.



NSG 409 – Maternal and Child Health Nursing II (4 Units)

The course further emphasis on the health of the family during child rearing period with particular attention to the needs of the child. The role of the nurse in family planning and genetic counseling is emphasized. The course covers all aspects of normal midwifery.

NSG 409 (4 Units)

Care of the newborn, Puerperium, Family planning, Child Growth and Development, child welfare, family health and Genetic counseling

ECO 417: Health Economics

The course covers a wide variety of topics and issues in Health Economics. The objective of the course is to familiarize the students with a body of economics theory, techniques and empirical studies that is helpful in arriving at rational decisions with respect to resources allocation development and the contrasts on resources availability, better understanding of the behaviour of the health care system from the economic perspective and serve to improve the effectiveness of public policy in the health sector.

**SECOND SEMESTER**

NSG 402 – MANAGEMENT OF NURSING CARE SERVICES (2 Units)

The course of designed to introduce the student to the philosophy theory; principles and techniques of management of Nursing care services. Essential tools for the management of Nursing care and the evaluation of response to care will be discussed. Introduction to Management: Philosophy, purpose and objectives. The health care delivery system: (National and International). Tools of management, Communication and interpersonal relationships. Interviewing skills concepts of guidance and counseling. Elements of nursing management Standards of nursing practice. Management of human and material resources, budgeting and staffing supervisory process. Concepts of evaluation, of clinical setting. Accountability and the role of research in practice.

NGS 404 – RESEARCH METHODOLOGY (3 Units)

The course is designed to create awareness of the need for research as a means for improving Nursing care. The student is assisted to acquire the basic skills and knowledge required of a researcher and to conduct simple studies in her Clinical area of practice. Introduction to research methodology, the role of research in health and social welfare institution versus problem solving and the scientific approach.

Research Designs: Application of principles of data collection; analysis and interpretation interaction and utilization of research findings utilization of research methodology for individual and group research projects. Review of selected studies in the health care industry.

NSG 406 – TEACHING/MANAGEMENT PRACTICE (2 Units)

The course enables the student to utilize the principles and techniques of teaching and management, in health care settings. Opportunity is given for health education at the primary secondary and tertiary levels of healthy care

NSG 412 – MEDICAL-SURGICAL NURSING IV

The course builds on Med-Surg NSg. I – III emphasizing students development of nursing judgement in clinical situations requiring crisis intervention, long-term hospitalization & rehabilitation. Development of nursing care plan, practice of comprehensive nursing and team nursing.

NSG 410 – MATERNAL AND CHILD HEALTH NURSING III (6 Units)

The course builds on MCH I and deals with obstetric and Gynecological conditions, application of PHC and school health programmes for the achievement of healthy maternal and child health abnormal midwifery and conceptional abnormalities of the newborn

**500 LEVEL**

**FIRST SEMESTER**

NSG 501 – COMMUNITY HEALTH NURSING II (6 Units)

Community health nursing and its integration into the health care system. The role of the community health nurse. Meeting the health needs of the community. The handicapped, social drop-outs. Problems of the aged. Health administration in the community. The use of the standing orders. The geriatric patient care, beggars, migrants, prostitution and refugees

NSG 503 – Maternal and Child Health Nursing IV (8 Units)

The course is designed to enable students transfer the theoretical knowledge of MCH to nursing growth and development. It also includes deomicilliary midwifery practice and family health care.

NSG 504 – Research Project I (4 Units)

The course is designed to create awareness of the need for research as a means for improving nursing care. The student is assisted to acquire the basic skills and knowledge required of a researcher and to conduct simple studies in her clinical area of practice. Introduction to research methodology, the role of research in health and social welfare institution versus problem solving and the scientific approach.

Research designs: Application of principles of data collection; analysis and interpretation interaction and utilization of research findings utilization of research methodology for individual and group research projects. Review of selected studies in the health care industry.

NSG 507 – Special Topic Seminar I (1 Unit)

The course is designed to enable students identify issues and trends in nursing and health care. In-depth knowledge is derived through literature review and interaction with members of the health team. Seminar presentations will be done

NSG 502 – COMMUNITY HEALTH NURSING III (6 Units)

The course builds on community health nursing II with emphasis on organization and coordination of community health services, it also covers health education, occupational health nursing, and oral rehydration therapy. It finally deals with the use of nursing process in community health assessment, diagnosis, intervention and evaluation

NSG 518 – Mental/Psychiatry Health Nursing II (4 units)

This course deals with preventive mental health (primary, secondary and tertiary). It involves the knowledge of the roles of the traditional healers in the society and the effects of urban-rural migration on mental health. The course also deals with the typology of crises, crises intervention and planning of community mental health programme

NSG 505 – Research Project II (4 Units)

Students are guided in the development and carrying out research studies by individual students

### NSG 516 – ENTREPRENEURSHIP IN NURSING (2 Units)

This course is designed to introduce students to the principle and practice of entrepreneurship. Opportunity for self-employment in nursing services including attitudes and skill of entrepreneurs are developed in this course. The course include planning, programming, implementation and evaluating nursing services to meet communities needs.

### NSG 508 – Special Topic Seminar II (1 Unit)

This builds on special topic seminar I with further discussions centered around application of the biological, social, psychological and nursing theories and concepts in analyzing and discussing the contemporary nursing issues.

### **ACADEMIC STAFF LIST DEPARTMENT OF NURSING, IGBINEDION UNIVERSITY OKADA**

S/N	Name of Staff	Sex	Specialty	Discipline	Qualifications Obtained with dates	Rank	Remarks
1	Ojo Adeleke A	M	Medical Surgical Nursing	Nursing	Teachers Grade III certificate, 1963 Registered Nurse (RN) Certificate 1970 Registered Public Health Nurse (RPHN) 1995 Registered Nurse Tutor (RNT) 1977 Bachelor of Science (B.Sc) Nursing 1977 Masters of Philosophy (M.Phil) 1985 Doctor of Philosophy (Ph.D ) 1991	Professor	Full Time
2	Mr. Osagiede, James	M	Nursing Education	Nursing	Registered Nurse (RN) Certificate 1967 Bachelor of Science (B.Sc) Nursing 1975 Registered Nurse Tutor (RNT) 1975 Masters in Public Health (MPH) 1981 Registered Public Health Nurse (RPHN) 2000	Lecturer II	Full Time
3	Mr. Famakinwa, T. Timothy	M	Community Health Nursing	Nursing	Registered Nurse (RN) Certificate 1983 Registered Nurse Tutor (RNT) 1988 Bachelor of Science (B.Sc) Nursing 1988 Masters in Health Planning and Mgt 1995 Masters in Medical Surgical Nursing 2005	Lecturer II	Full Time
4	Mrs I.N Orji	F	Maternal & child health nursing	Nursing	Registered nurse Registered midwife B.Sc nursing M.Sc nursing	Lecturer II	Full Time
5	Miss Onasoga olayinka . A.	F	Maternal& child health nursing Medical surgical nursing	Nursing	Registered Nurse (RN) 1999 Registered Midwife (RM) 2004 Registered Public Health Nurse (RPHN) 2006 Bachelor of Nursing Science (B NSc) 2005 Masters in Maternal and child Health Nursing In View	Ass. Lecturer	Full Time
6	Miss Adegoroye, Beatrice Bukola	F	Medical Surgical Nursing	Nursing	Registered Nurse (RN) 1999 Registered Midwife (RM) 2004 Registered Public Health Nurse 2006 Bachelor of Nursing Science (B NSc) 2005	Ass. Lecturer	Full Time
7	Dr. (Mrs.) F.O. Adeyemo	F	Maternal & child health Nursing	Nursing	Registersd nurse Registered midwife B.Sc Nursing M .Sc P h.D	Lecturer 1	Sabbatical
8	Dr. Lola Irinoye	F	Maternal & Child Health Nursing	Nursing	B.Sc Nursing, M.Sc. Ph D R.N, Rm	Snr. Lecturer	Visiting Lecturer
9	Dr. E .O Oladele	M	Psychiatric/Mental Health Nursing	Nursing	Registered nurse RMN B.Sc Nursing M. Ed	Snr Lecturer	Associate 1
10	Dr. B.L Ajibade	M		Nursing	Registered Nurse B.Sc Nursing M.Ed Ph.D	Lecturer 1	Associate special

### **PROFESSIONAL STAFF LIST / (CLINICAL INSTRUCTORS), DEPARTMENT OF NURSING IGBINEDION UNIVERSITY, OKADA**

S/N	Name of Staff	Sex	Specialty	Discipline	Qualifications Obtained with dates	Rank	Remarks
1	Miss. Mekomah, Helyn Unoma	F	General Nursing Community Health Nursing	Nursing	Registered Nurse (RN) 1997 Registered Midwife (RM) 2000 Bachelor of Science (B Sc) 2004 Registered Public Health Nurse (RPHN) 2006	Senior Nursing Officer (Clinical Instructor)	Full Time
2	Miss kayode Olubunmi	F	General nursing Community health nursing	Nursing	Registered nurse 2005 Registered midwife 2006 B.N.sc nursing 2006	Nursing officer 1 (clinical instructor)	Full time

## ACADEMIC STAFF IN SERVICE DEPARTMENTS WITHIN THE COLLEGE OF HEALTH SCIENCES

### Office of Dean, Basic Medical Sciences

S/N	Name	Qualification	Rank	Status
1.	L.O. Magbojikwe	B.Sc. Biochem (Sokoto)1984; M.Sc Biochem (Ibadan) 1988 Ph.D Biochem (Jos) 2000	Acting Dean	FT

### DEPARTMENT OF ANATOMY

S/N	Name	Qualification	Rank	Status
1.	Prof. S.B. Lagundoye	M.B.BS (London) 1961; DMRD (1966); FMCR (1970) FWACS (1980); FICS (1989); FRCR (1993)	Professor	FT
2.	Dr. S.A. Adebisi	B.Sc (Calabar) 1988; M.Sc (Ife) 1992; Ph.D (Zaria) 2002	Reader	FT
3.	Dr. Osa Peter Ogundigie	B.Sc (Metu) 1993; M.Sc Biol (Metu) 1985; Ph.D Med. Sci. (Hiroshima)1995	Senior Lecturer	FT
4.	Dr.Linus Chia Saalu	MB.BS; M.Sc., MPH	Lecturer II	FT
5.	Mr. Adesanya Olamide	B.Sc (Ife) 1992; M.Sc (Lagos) 1998	Lecturer II	FT
6.	Mr. Ude Ude Raymond A.	B.Sc, M.Sc	Assit. Lecturer	FT
7.	Miss Christiana Okuonu	B.Sc. Anatomy (Calabar) 1997	Graduate Assit. Reproductive Biology	FT
8.	Prox. Baxter Grillo	LRCPI; LRCSI; LLN (1955) DCH (Dublin); FMC Surgry (Nigeria); Ph.D (Ibadan; FASN (2006)	Professor Neuro-Embryology	FT
9.	Mr. Imosemi Innocent Ohiorenuan	B.Sc (Hons) Human Anatomy 1995; M.Sc Human Anatomy 2001;	Senior Lecturer Neuro- Embryology	FT

### DEPARTMENT OF BIOCHEMISTRY

S/N	Name	Qualification	Rank	Status
1.	Dr. L.O. Mgbojikwe	B.Sc. Biochem (Sokoto)1984; M.Sc Biochem (Ibadan) 1988 Ph.D Biochem (Jos) 2000	Snr. Lecturer /HOD	FT
2.	Prof. M.A. Madusolumuo	B.Sc (Ife) 1977; M.Sc (Ife) 1983; PhD (Ife) 1992	Professor	FT
3.	Mr. Josiah Sunday Joel	B.Sc (ABU) 1986; M.Sc (Ibadan) 1995	Lecturer I	FT
4.	Mr. E.S. Uhunmwangho	B.Sc (Ibadan) 1988;	Lecturer II	FT

		M.Sc (Ibadan) 2000		
5.	Mr. Anthony Ogbonaya	B.Sc ( ); M.Sc ( )	Asst. Lecturer	FT
6.	Mr. S.C. Nwangwu	B.Sc (Awka) 1999; M.Sc 2004	Asst. Lecturer	FT
7.	Mr. I.O. Omotuyi	B.Sc Bioch. (Ilorin) 2003	Graduate Asst.	FT
8.	Dr. N.P. Okolie	B.Sc Bioch. (1983) Benin; M.Sc (1986), Ph.D (1998)	Reader	PT

#### DEPARTMENT OF PHYSIOLOGY

S/N	Name	Qualification	Rank	Status
1.	Prof. A.A. Fasanmade	MBBS (Ibadan) 1980; M.Sc Phys. (Ibadan) 1986; FWACP	Professor	FT
2.	Dr. C.O. Azubuike C.	M.Med. Sc. (Uni-Port) 1994 MBBS, (Uni-Port) 1988; M.Sc (Uni-Ben) 2000	Senior Lecturer/HOD	FT
3.	Mr. D. Oshi	B. Med. Sc. (Uni-Port) 1990; MBBS (Uni-Port) 1994	Lecturer II	FT
4.	Mrs. T.O. Oyesola	B.Sc (Ibadan) 1995 M.Sc (Ibadan) 2002	Asst. Lecturer	FT
5.	Prof. A.C. Ugwu	B.Sc, M.Phil, Ph.D (Physiology)	Professor Cardiovascular Physiology	PT

#### OFFICE OF DEAN

S/N	Name	Qualification	Rank	Status
1.	Prof. L. C. Chiedozi	BA Hons (1964); MD (1968) DABS (1975) FACX (1981) FMCS, FWACS, FICS	Professor, Dean	FT
2.	Dr. F. E. Odiase	MBBS (Benin) FMCP (2005)	Sub-Dean	FT

#### DEPARTMENT OF ANAESTHIOLOGY

S/N	Name	Qualification	Rank	Status
1.	Dr. S. Ukpomwan	MBBS (Ibadan) 1969 FFARCS 1974 FMCS 1980 FWACS 1980	Reader, HOD	FT
2.	Dr (Mrs) F. D. Asudo	MBBS, DA, FWACS	Snr. Lecturer	FT
3.	Dr. (Mrs) N. Aivboraye	MD; DA (1992) Consultant	Lecturer II	FT
4.	Dr. (Mrs) B. A. Okonofua	B.Sc. BM.BCH. DA	Lecturer II	FT

#### DEPARTMENT OF COMMUNITY HEALTH

S/N	Name	Qualification	Rank	Status
1.	Prof. T. Daramola	B.Sc. (Viginia)1958; MD (Toronto) 1961; DPH (Toronto) 1964; FMCPH 1971; FWACP 1976	Professor & Provost	FT
2.	Prof. M.K.O. Padonu	MD (Leipzig) 1969; DPH (Toronto) 1972; M.H.Sc (Johns Hopkins) 1974; Cert. Health Planning (Johns Hopkins) 1974; Cert. Fam. Planning (Colorado) 1975; FACPM (USA) 1985; FWACP 1986; D.Sc (h.c., Sri Lanka) 1991; FMCPH 1993	Professor, HOD	FT
3.	Dr. Olorunfemi E. Amoran	MBBS (Ibadan) 1995;	Lecturer I	PT

		MMP Epidemiology; FWCP 1999; FNMCP 2004		
4.	Dr. O.A. Adeleye	MBS 1990; MHPM 2001 MPH 2004; FWACP 2002	Lecturer I	PT

#### DEPARTMENT OF CHEMICAL PATHOLOGY

S/N	Name	Qualification	Rank	Status
1.	Prof. I. A. O. Oforofuo	B.Sc. (Hons) London 1975 M. Sc (Clin. Chem) London 1979 Ph.D (Benin) 1987 MRSC, C Chem (UK) 1980 FIMLS(Special Clin. Chem.IK) 1980 FIMLT (Nig) 1981; Chem Path	Professor HOD	FT
2.	Prof U. Oluoha	FIMLS (UK) 1980 M.Sc. (St. Andrews) 1980 Ph.D, Biochem (Benin) 1992	Professor	FT
3.	Dr. I. A. Yahaya	MBBS 1982 M.Sc (Chem Path) 2001 FMCPATH 2002	Senior Lecturer	FT
4.	Mr. A. T. H. Mokogwu	M.Sc. (Ibadan) 1993 AIMLS (1985) FIMLS (Nig) 1999	Lecturer I	FT
5.	Mr. C. I. Ikaraoaha	B.Sc Med Lab.Sci (Unical) 1997 M.Sc. Chem Path (UI) 2002 AIMLS (Nig) 1999	Lecturer II	FT
6.	Dr. J. E. E. Aigbangee	MBBS, M.Sc. Clinical Pathology	Lecturer II	FT

#### DEPARTMENT OF HEMATOLOGY

S/N	Name	Qualification	Rank	Status
1.	Dr. E. O. Imiere	MBBS (Benin) 1997 FMCPATH 2006 Heamatology	Lecturer in charge	FT
2.	Dr. S. O. Abegunde	MBBS (Benin) 1999 FMCPATH 2006	Lecturer I	FT
3.	Dr. G. N. Obazuaye	MBBS 1993 FMCPATH II 2002	Lecturer I	FT
4.	Dr M. Eneolease	MBBS; MCP	Lecturer I	FT

#### DEPARTMENT OF MEDICINE

S/N	Name	Qualification	Rank	Status
1.	Prof. Fasanmade	MBBS (Ibadan) 1980; M.Sc Physio 1986; FWACP 1990	Professor HOD	FT
2.	Prof. P.F.Ugbodaga	B.Sc (Ife) 1978; MBCh 1981 FWACP 1993	Senior Lecturer	FT
3.	Dr. (Mrs) J.O. Eboreimen-Oiken	MBBS (Benin); FWACP 1993	Senior Lecturer	FT
4.	Dr. F. E. Odiase	MBBS (Benin); FMCP 2005	Lecturer I	FT
5.	Dr. J.A. Ugheoke	MBBS (Benin)1985; M.Sc Physiol. FMCP 2005	Lecturer I	FT
6.	Dr. E.K. Iyasere	MBBS (Benin)1986; FMCP 2003	Lecturer I	FT
7.	Dr. C.E. Eigbe	MBBS (Benin)1990; FMCP 2005	Lecturer I	FT
8.	Prof. L.I. Ojogwu	MBBS (Ibadan)1973; MRCP (UK) 1978; FRCP	Professor	PT

		(London) 1990		
9.	Prof. A.O. Isah	MBBS,MD, FMCS	Professor	PT
10.	Dr. O.O. Ukponmwan	MBBS (Ibadan) FMCP	Senior Lecturer	PT

#### DEPARTMENT OF MEDICAL MICROBIOLOGY & PARASITOLOGY

S/N	Name	Qualification	Rank	Status
1.	Prof. I. A. Awogun	MPH 1976 M.Sc. 1977 Ph.D 1985	Professor	FT
2.	Prof. D. A. Agbonlahor	FMLSCN (Nig) 1977 M.Sc. (Unilag) 1981 Ph.D (Unilag) 1984 FRCPath (London) 2003	Professor	FT
3.	Prof. B. Adegboro	MBBS (Ibadan) 1973 Cert Bacteriology (Manchester) 1977 Cert Venereology (London) 1979 FMCPPath 1979 FWACP Cert Immunol MD (Ibadan) 1982	Professor	FT
4.	Prof. M. I. Agba	Dip. Vet. Sc 1967 B.Sc.MCB (UNN) 1973 M.Sc. (Med. Meb ) UWI 1979 Ph.D Meb/Immunol 1988 FBSN 1997	Professor	FT
5.	Dr. N. N. Shadali	AIMLT (Virology) 1975 FIMLT (Virology ) 1977 M.Sc. (Immunology) Atlanta University, GA 1985 Ph.D. Microbiology (ABU) 1988 FBSN 1998	Senior Lecturer Acting HOD	FT
6.	Mr. Y. M. Tاتفeng	AIMLS (UCH) Med. Micro 1999 PGDM (AAU) Micro 2000 FIMLS (UCH) Medical Parasitol 2001 M.Sc. (AAU) Med Micro 2003 Cert. Immunol (UCH) 2004	Lecturer II	FT

#### DEPARTMENT OF MORBID ANATOMY

S/N	Name	Qualification	Rank	Status
1.	Prof. A. H. Rafindadi	MBBS (Zaria) 1980 FMCPPath 1990	Professor	FT
2.	Dr. S. M. Shehu	MBBS (Zaria) 1989 FWACP Lab Med. FMCPPath 1989	Senior Lecturer	FT
3.	Dr. Akhiwu	MBBS 1983 M.Sc. Bioch 1994 FMCPPath 1999 FWACPPath 1991	Senior Lecturer/ HOD	PT
4.	Dr. E. A. O Afolayan	MBBS (ABU) 1979 FNMPPath (Nig) 1987 FWACPPath (1987)	Senior Lecturer	PT

#### DEPARTMENT OF OBSTETRICS AND GYNAECOLOGY

S/N	Name	Qualification	Rank	Status
1.	Prof. J. Unuigbe	MBBS (Ibadan) 1972 MRCOG (UK) 1980 FWACS 1984 FICS 1986 FRCOG 1994	Professor	FT
2.	Dr. V.O. Oboro	MBBS (Ife) 1992	Reader	FT

		FWACS 2000 FMCOG 2001		
3.	Dr. M. A. Osumah	MBBS. (Benin) 1984 FWACS 1986 FICS 2006	Senior Lecturer	FT
4.	Dr. M. O. Oriakhi	MBBS. (Benin) 1986 FMCS 2000	Senior Lecturer	FT
5.	Dr. M. O. Oriakhi	MBBS. (Benin) 1986 FMCS 2000	Senior Lecturer	FT
6.	Dr. Henry Osazuwa	MBBS. (Benin) 1997 FWACS 2004	Lecturer I (Lecturer in Charge)	
7.	Dr. J. O. Uwaifo	MBBS. (Benin) 1981 FWACS 2003	Lecturer I	
8.	Dr. G. E. Agbon Ojeme	MBBS. (Ibadan) 1982 FWACS 2000 FICS 2006	Lecturer I	
9.	Dr. M. O. Imologhomhe	MBBS. (Benin) 1985 FWACS 2003	Lecturer I	
10.	Dr. V. O. Otoide	MBBS. (Benin) 1991 FWACS 2000 FMCOG 2001 M.Sc Re Health 2003	Lecturer I	
11.	Prof. L. N. Ajabor	MBBS. (Bristol) 1960 MRCOG 1966 FRCOG 1980 FWACOG, FMCOG	Professor	

#### DEPARTMENT OF PAEDIATRICS AND CHILD HEALTH

S/N	Name	Qualification	Rank	Status
1.	Dr. A. B. Bello	MBBS (Equiv) Dipl. In Trop. Med 1976 FWACP 1995 FISM 1999 MD 1976 FACHARZT 1983	Reader, HOD	FT
2	Dr. C. S. Amiebenomo	FMC (Paed) 1986 Chief Consultant; FMC (Paed) 1986	Senior Lecturer	FT
3	Dr. N. O. Asemota	MD (Sopha) 1978 FMCPaed (1984)	Senior Lecturer	FT
4	Dr. Idowu Senbanjo	MBCh.B (Ago Iwoye) 1995 WAPMC 1998 MWACP 2001 FWACP 2004	Lecturer I	FT
5	Dr. E. I. O. Woghiren	MBBS (Ibadan) 1979 FWACS 1984	Lecturer I	FT
6	Prof. P. O. Abiodun	MD FAF Paed, FWACP, FMC Paed	Professor	PT

#### DEPARTMENT OF PSYCHIATRY

S/N	Name	Qualification	Rank	Status
1.	Dr. (Mrs) O. F. Ihenyen	MBBS (Benin) 1981 FWAC Psych 1990	Senior Lecturer	FT
2	Dr. G. O. Eze	MBBS 1979 FWAC Psych 1994	Senior Lecturer	FT
3	Dr. O. C. Ikeji	MD (Romania) 1984 FWAC Psych 1994	Lecturer I	FT
4	Dr. S. O. Olotu	MBBS, FWAC Psych	Lecturer I	FT

#### DEPARTMENT OF SURGERY



S/N	Name	Qualification	Rank	Status
1.	Prof. L. C. Chiedozi	BA Hon 1964; MD 1969; DABS 1975; FACS 1981; FMCS, FWACS, FICS	Professor	FT
2	Prof. Vincent Onuora	MBBS (Ibadan) 1975; FRCSE 1982 FWACS 1987 FICS 1987	Professor	FT
3	Dr. Hemraj Gupta	MBBS (Uni J & K India) 1970 MD 1978	Senior Lecturer/HOD	FT
4	Dr. O. Oboreimen	MBBS, FMCS 1964 FWACS 1996;	Senior Lecturer	FT
5	Dr. I. Z. Asogun	MBBS (Benin) 1991 FWACS 2000; FICS 2004	Senior Lecturer	FT
6	Dr. A. A. Udoise	MBBS (Benin) 1992; FWACS 2004	Lecturer I	FT
7	Dr. B. O. Uwadiae	MBBS (Benin) 1990; FRCSI 1999; Dip. Ortho Rehab (Dundee) 2004 Dip Sports Inquiry (Dublin) 2005	Lecturer I	FT
8	Prof U. Osime	BBS 1964; FRCSE 1969; FRCSEd 1969; FWACS 1973; FMCS 1976 FICA 1981; FICS 1985; FACS (USA) 1987	Professor General Surgery	PT
9	Prof R. Ofoegbu	MD 1964; Chir D 1969; FRCEd 1971; FMCS 1976; FWACS 1977; FACS 1979; FICA 1979; FICS 1980; FACA 1992	Professor Cadiothoracic Surgery	PT
10	Prof. I. Evbuomwan	MBBS (India ) 1971; FRCS 1976; FWACS 1982; FICS 1987	Professor Pediatric surgery	PT
11	Dr. A. Ihenyen	MBBS (Ibadan) 1972; FRCSI 1984; FWACS	Reader	PT

## LIST OF ACADEMIC STAFF IN SERVICE DEPARTMENTS OF THE UNIVERSITY

### College of Natural & Applied Sciences

S/N	Name	Position	Department
1	Prof. Odaibo, Alexander B.	Prof	Bio. Science
2	Enobakhare, Dan A.	Prof	Bio. Science
3	Oranusi, Solomon (Dr.)	Lect I	Bio. Science (HOD)
4	Ehiagbonare, J.E (Dr.)	Lect II	Bio. Science
5	Omonhinmi C. Asotie	Lect II	Bio. Science
6	Nwanze, Peter	Lect II	Bio. Science
7	Yah Clarence	Lect II	Bio. Science
8	Jatto, Wellington Osaigbovo	Asst. Lect.	Food Science
9	Aghimien Monica O.	Grand Asst.	Bio. Science
10	Enabulele, Stephen A.	Grand Asst.	Bio. Science
11	Dr. Atunanya, E. I.	Reader	Bio. Science
12	Oboh, Fred O. J.	Snr. Lect.	Chemistry
13	Orjiekwe, Chika (Dr)	Snr. Lect.	Chemistry (HOD)
14	Dr. A. K. Asiagwu	Lecturer I	Chemistry
15	Alensela, O Mark	Asst. Lect.	Chemistry
16	Ogunniran K. O.	Asst. Lect.	Chemistry

17	Adeleke Adebayo	Grand Asst.	Chemistry
18	Iyase Samuel (Dr)	Reader	Mathematics
19	Odiah, Tom I.	Lect. I	Computer Science (HOD)
20	Aiyelo. Peter O. K.	Lect. I	Mathematics
21	Uriri, Omena	Asst. Lect.	Computer Science
22	Orhionkpaiyo, Ben-charles	Asst. Lect.	Computer Science
23	Ekoko, Alfred O.	Asst. Lect.	Computer Science
24	Anake, Timothy Ashibel	Asst. Lect.	Mathematics
25	Omorogbe, Harry	Comp. Anal	Computer Science
26	Abere, Reuben	Comp. Prog.	Computer Science
27	Mr. Aweh Opani	Asst. Lect.	Computer Science
28	Izevibizua, Rose (Mrs.)	Pract. Inst.	Computer Science
29	Omorogiuwa, Osaremwinda	Grand Asst.	Computer Science
30	Dr. R. E. Nwokedi	Snr. Lect.	Physics
31	Falade, J. A.	Lect. I	Physics
32	Aigbekaen, Eddy Enorence	Asst. Lect.	Physics
33	Maureen U. Okwu	Asst. Lect.	Biological Science
34	Rita O. Orji	Graduate Asst.	Computer Science

#### COLLEGE OF ARTS AND SOCIAL SCIENCES

S/N	Name	Position	Department
1	Onwuejeogwu Angulu M.	Prof	Sociology (Dean)
2	Dr Siyan Peter	Visiting Asso Prof	Economics/Deve studies
3	Igbatayo. Samuel	Lect I	Econs & Deve
4	Mr. Victor Omoregbe	Lect I	Econs & Deve
5	Ogbeifun, Monday	Lect II	Econs & Deve
6	Odejimi Deborah O	Lect II	Econs & Deve
7	Idahosa Daniel C. O.	Lect II	Econs & Deve (HOD)
8	Igbinedion, Sunday	Asst Lect	Econs & Deve
9	Amayo Kingsley Osarobo	Grad Asst	Econs & Deve
10	Mrs. B. Olopade	Grad Asst	Econs & Deve
11	Yesufu Abdul L.	Prof	English
12	Onochie, Basil C. (Dr)	Snr Lect	English
13	Okolo, B. A. (Dr)	Snr Lect	English
14	Ikhigbonoareme. Emmanuel	Lect II	English
15	Mamudu, Clement O	Lect II	English
16	Robin Anjolaoluwa (Mrs)	Grad Asst	English
17	Asikhia O. Monday (Dr)	Snr Lect	Geography (HOD)
18	Ndianefoo, Ifechukwu J. (Dr.)	Lect II	Philosophy
19	Ukaogo, V. O.	Lect II	Int'l Relations
20	Agadagba, Philip I	Asst Lect	Int'l Relations
21	Aihie, Joseph Osasuyi	Asst Lect	Int'l Relations
22	Akpan, Etim Nse	Lect II	Int'l Relations
23	R. Idehen	Asst Lect	Int'l Relations
24	Okhakwu, M. A. (Dr.)	Snr Lect	Mass Com (HOD)
25	Mande, Samalia	Lect II	Mass Com
26	Ate, Asan Andrew	Lect II	Mass Com

27	Ojete N. Elijah	Asst Lect	Mass Com
28	Airen Melody	Asst Lect	Mass Com
29	Masajuwa, Florence	Lect I	Pol. Sci /Pub. Adm
30	Okhomina, Stephen	Asst Lect	Pol. Sci /Pub. Adm
31	Agara B. O.	Lect II	Pol. Sci /Pub. Adm (HOD)
32	Dr. Ngamen F. C. Dalex	Lect II	Pol. Sci /Pub. Adm
33	Osawe, Christopher O.	Asst Lect	Sociology
34	Obadiah, Charles A	Asst Lect	Theater Arts
35	Omobolaji O Olarinmoye	Lecturer II	Pol Science
36	Kunle Ajisebiyawo	Graduate Assistant	Pol Science

## STRUCTURE OF PROGRAMME IMPLANTATION

	Year/Level	Formal studies in University and Laboratory Practical		Projects	Clinical Experiences		Planned Field Trips
		1 <sup>st</sup> Semester	2 <sup>nd</sup> Semester		1 <sup>st</sup> Semester	2 <sup>nd</sup> Semester	
1	100	Week 1 – 15	Week 1 – 15	Nil	Nil	Nil	Nil
2	200	Week 1 – 15	Week 1 – 15	Nil	Nil	Nil	Nil
					During Short Break	During Long Vacation	
					2 weeks Lab. Practical	Concentration Clinical/Lab. Practical for 8 wks Mid July – Mid Sept.	
3	300	Week 1 – 8 lectures Week 9 – 12 Split (4pm – 6pm lectures)	Week 1 – 8 lectures Week 9 – 12 Split (4pm – 6pm lectures)	Community Health assessment Project	Week 9 – 12 split. 8am – 1pm clinicals Med. Surg	Weeks 3 – 9 Split CHN/MCH (4 weeks)	Community Assessment Visits
					During Short Break	During Long Vacation	
					2 weeks CHN	6 weeks Con. Clinical Med. Surg & MCH 4 weeks	
4	400	Week 1 – 6 lectures Week 7 – 12 Split (4pm – 6pm lectures)	Week 1 – 6 lectures Week 7 – 12 Split (4pm – 6pm lectures)	Patient care study NMCN research project for Gen. Nursing Exam	Week 7 – 12 MCH clinicals	Week 1 – 6 Clinicals Psychiatry	Nil
					During Short Break	During Long Vacation	
					2 weeks Clinicals MCH	10 weeks Con. Clinical Med. - Surg	
5.	500	Week 7 – 12 lectures (MCH & CHN)	Week 1 – 8 lectures (MCH & CHN) Degree Exam.	Midwifery Project University Project	WeekS 7 – 12 Con. Clinicals MCH Professional Gen. Nsg Exam 2 wks	Week 1 – 8 Split 8am – 1pm Clinicals CHN. Professional Midwifery Exam	Field trip to identified community health sites.
					During Short Break	During Long Vacation	
					Clinicals MCH 2 weeks	Graduation	

**Public Health Nursing Professional Exam During N.Y.S.C. Year**

## **AREAS FOR CLINICAL EXPERIENCES**

1. Critical Care settings
  - i. Igbinedion University Teaching Hospital, Okada & Benin
  - ii. Central Hospital, Benin City.
2. Specialties
  - i. Neuropsychiatric Hospital, Uselu, Benin City
  - ii. St. Phenomena's Catholic Maternity Hospital, Benin City.
3. Community Health Nursing Experience
  - i. Family Planning Clinic, Benin City
  - ii. Nutrition Unit, Ikpema Street, Benin City.
  - iii. Epidemiology & Control of Communicable Diseases, Sapele Road, Benin City.
  - iv. School Health Unit – Off Sapoba Road, B/City.
  - v. Health Education unit, B/City.
  - vi. Health office (Ring Road) B/City.
4. Areas for Field Trip
  - i. Nigerian Ports Authority, Warri.
  - ii. Ewe Flour Mills, Edo State.
  - iii. Cocoa Cola in Benin City.
  - iv. Furniture Factory at New Lagos Road, B/City.
  - v. Edo State Environment Protection Agency.
  - vi. Benin City Airport
  - vii. Water production & Protection process.
  - viii. Delinquent Children's Home, Benin City.
  - ix. Catholic Old peoples Home, Benin City.
  - x. Physically challenged peoples Home – Ezoti Street, behind Central Hospital Benin City.
  - xi. Edo State Water Board – Sapele Road, Benin City.
  - xii. Edo State properties development Board, Benin City.

# **PROF. DORA AKUNYILI COLLEGE OF PHARMACY**

## **REGULATION GOVERNING THE BACHELOR OF PHARMACY DEGREE (B. PHARM)**

### **A. Admission requirement:**

Candidates seeking for admission into the programme leading to the Bachelor of Pharmacy (B.Pharm.) Degree must satisfy the minimum entry requirements of the University. In addition, the following requirements apply to the College of Pharmacy.

#### **100 Level (Pre-Degree)**

For admission into 100 level (Pre-Degree) candidates must pass English Language, Mathematics, Physics, Chemistry and Biology at credit level in the West African school Certificate (WASCE), Senior Secondary School Certificate Examinations (SSCE) or GCE "O" Level or its equivalent at not more than two sittings, plus an acceptable pass in the University matriculation Examinations where applicable.

#### **200 Level (Direct Entry)**

Candidates seeking Direct Entry Admission to 200 level of the programme must in addition to the requirements above, hold at least a Bachelor's degree (2<sup>nd</sup> Class Hons. from a recognized University) in Chemistry or the Biological Science or have passed Physics, Chemistry and Biology or Candidates who passed Botany in Lieu of Biology or Zoology may be considered for admission. A pass in Mathematics or Statistics at GBE "A" Level may be accepted in lieu of Physics. A pass at the HSC General Paper may be accepted in lieu of credit in English Language at the GCE "O" Level or WASCE/SSCE.

### **B. Degree requirements:**

Candidates admitted to the Bachelor of Pharmacy (B.Pharm.) Degree course must:

- (i) Follow an approved course of study for a minimum of five academic sessions (for those admitted to 100 level) or four academic sessions (for those admitted to 200 level); graduates or undergraduates of other Universities with qualifications approved by the Senate of Igbinedion University, Okada may be permitted to complete the requirements for graduation in the college over a period of not less than two academic sessions subsequent to matriculation.
- (ii) Comply with such other regulations and requirements as may be prescribed.

All candidates are required to attend a minimum of 75% of each prescribed course in order to qualify for the examination.

### **C. Examination Arrangements:**

All end-of-course examinations shall take place at the end of each semester. In addition to written examination, course examinations may involve Orals and/or practical.

### **Exemptions:**

1. **Mathematics:** Candidates who have passed Mathematics at advanced level (GCE or HSC or the University 100 Level Mathematics course may be exempted from mathematics at the 200 level.
2. **Physiology, Anatomy and Biochemistry:** Candidates who have passed these courses at 200 level in Igbinedion University, Okada or degree holders in these subjects may be exempted from these courses as appropriate.
3. **General Studies:** Candidates who have already passed the general Studies course of Igbinedion University, Okada may not be required to register for these courses.

### **Continuous Assessment**

Continuous Assessment during the semester may form part of the end-of-course grading. Its overall contribution shall not exceed 25%.

### **Progress throughout the Programme**

The suitability of students to progress from one year of the programme to the next, and to graduation, will be determined by a satisfactory standard of course work and examinations. The **minimum pass mark** in all the courses at 200 - 500 levels shall be 50% except for Pharmacy Law and Dispensing Examinations where the pass mark shall be 60% (requirements of the Pharmacists' Council of Nigeria). The pass mark for 100 level courses shall be 40%. All decision concerning the progress of a student shall be subject to the approval of Senate on the recommendation of the Board of Studies of the College of Pharmacy.

The following are minimum number of credits a student must accumulate at the end of an academic session in order to move to the next level.

<b>LEVEL</b>	<b>MINIMUM NUMBER OF CREDITS</b>
100	40
200	28 (38 for Direct Entrants who take GST)
300	30
400	20

Final year (500 level) students are required to repeat all failed courses as a pass in all courses of the B.Pharm. degree Programme is mandatory before a student can graduate. Normally, no candidate shall be allowed to take more than seven academic sessions (including pre-Degree) to complete the B.Pharm. degree programme.

### **Probation/Withdrawal from the School**

Students who failed to accumulate the minimum of credits required to move to the next level but have at least 50% of the stipulated minimum number of credits, will be placed on probation for one year. Alternatively, they may opt for Inter-College transfer. A student on probation is required to repeat the level and register for failed courses. A student is allowed to go on probation once during the programme. Where he/she fails at any other time during the programme to accumulate the minimum number of credits required to move to the next level, such a student(s) shall withdraw from the college. Students who are unable to accumulate

50% of the minimum number of credits required to move to the next level shall withdraw from the college.

### **COURSE STRUCTURE AND CREDIT LOAD DISTRIBUTION OF CREDIT LOAD**

<b>LEVEL</b>	<b>100</b>	<b>200</b>	<b>300</b>	<b>400</b>	<b>500</b>	<b>TOTAL</b>
ANT	-	4	-	-	-	4
BCH	-	6	-	-	-	6
MTH	4	-	-	-	-	4
PHS	-	9	-	-	-	9
PCG	-	3	4	4	3	14
PCH	-	5	8	4	5	22
PCT/PIT	-	3	7	8	6	24
PMB	-	3	4	3	5	15
PCO	-	-	10	6	6	22
PPR/PCN	-	-	4	13	11	28
PPJ	-	-	-	-	4	4
BOT	6	-	-	-	-	6
ZOO	6	-	-	-	-	6
CHM	13	-	-	-	-	13
PHY	11	-	-	-	-	11
CSC	4	-	-	-	-	4
GST	10	-	-	-	-	10
<b>TOTAL</b>	<b>54</b>	<b>33</b>	<b>37</b>	<b>38</b>	<b>40</b>	<b>202</b>

A student shall normally in any academic year (of two semesters) be allowed to register for and take a minimum of 30 credits and maximum of 50 credits. A student who is on probation may register for failed courses only.

### **Industrial Attachment**

The students Industrial Attachment shall normally start at the end of 300 level examinations and terminate at the end of November of the year i.e students should resume studies in December. Students performance shall be assessed at the end of the attachment and those students whose performances are deemed to be unsatisfactory shall be required to repeat the attachment for a period to be determined by Senate on the recommendation of the Board of Studies of the College of Pharmacy.

### **Students Results**

The students shall be given their results in term of the percentage scored together with the following letters grade:

<b>Percentage Score</b>	<b>Letter Grade</b>	<b>Grade Point</b>
70 – 100%	A	5
60 – 69%	B	4
50 – 59%	C	3 (0 for Pharmacy Law and Dispensing)
45 – 49%	D	2 (2 for courses at 100 level)
40 – 44%	E	0

### **DEGREE FORMAT**



The B.Pharm. Degree is unclassified (i.e. no classification to 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup> or Pass). From each level (year) a Grade Point Average shall be calculated. Weighting shall be determined by the contribution of each level as stated below:-

Level	Students admitted at 100 Level	Students admitted at 200 level
100	5%	-
200	10%	15%
300	15%	15%
400	20%	20%
500	50%	50%

The students final Grade Point Average shall be calculated from the sum of weight Grade Point Average for each level. A student in the final year shall earn a B.Pharm Degree when his/her final cumulative weighted Point Average is 3.0 and above.

### **DISTINCTION**

A candidate shall earn a distinction when his/her cumulative grade point average in any Pharmacy subject area (over the duration of the entire degree programme) is 5.0 Distinction(s) shall be reflected in the transcript.

The Pharmacy subject areas are:

1. Pharmaceutics & Pharmaceutical Technology
2. Pharmacology & Toxicology
3. Clinical Pharmacy & Pharmacy Practice
4. Pharmaceutical Microbiology
5. Pharmaceutical Chemistry
6. Pharmacognosy

### **SUBJECT CODE**

<b>SUBJECT</b>	<b>CODE</b>
Anatomy	ANA
Biochemistry	BCH
Botany	BOT
Chemistry	CHM
Clinical Pharmacy	PCN
Computer Science and Information Technology	CSC
General Studies	GST
Industrial Training	PIT
Pharmaceutical Chemistry	PCH
Pharmaceutical Microbiology	PMB
Pharmaceutics & Pharm. Technology	PCT
Pharmacognosy	PCG
Pharmacology	PCO
Pharmacy practice	PPR
Physiology	PHS
Physics	PHY
Project	PPJ
Ancillary Mathematics	MTH
Toxicology	PTX

Zoology	ZOO
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### **COURSE CONTENTS BY LEVEL**

100 Level Courses: The following 100 level course are taught in the College of Natural and Applied Sciences and the General Studies Unit:

1. Botany
2. Chemistry
3. General Studies (GST)
4. Physics
5. Zoology
6. Ancillary Mathematics

**COURSE OUTLINE:** The course outline, showing the course code, title and credit is presented below:

#### **100 LEVEL FIRST SEMESTER**

<b>CODE</b>	<b>COURSE TITLE</b>	<b>CREDITS</b>
BOT 111	Introduction to Plant Science	3
ZOO 111	Introduction Zoology	3
CHM 111	General Physical Chemistry	3
CHM 112	General Organic Chemistry I	2
MTH 115	Ancillary Mathematics	2
PHY 111	Mechanics and Properties of Matter	2
PHY 112	General Physics	2
PHY 113	Thermal Physics	2
GST 111	Communication in English I	2
GST 112	Logic, Philosophy & Human Existence	2
GST 113	Nigerian People and Culture	2
	<b>Sub-Total Units</b>	<b>25</b>

#### **SECOND SEMESTER**

<b>CODE</b>	<b>COURSE TITLE</b>	<b>CREDITS</b>
BOT 121	Plant Structure & Function	3
ZOO 121	Functional Zoology	3
CHM 121	Inorganic Chemistry	3
CHM 122	Practical Chemistry	2
CHM 123	Organic Chemistry II	3
MTH 125	Ancillary Mathematics	2
PHY 100	Practical Physics	1
PHY 121	Electromagnetism	2
PHY 122	Modern Physics	2
PHY 123	Waves, Optics & Vibrations	2
GST 121	Use of Library, Study Skills & ICT	2
GST 122	Communication in English II	2
GST 123	Communication in French	2

	<b>Sub-Total Units</b>	<b>29</b>
	<b>Total Units</b>	<b>54</b>

## 200 LEVEL COURSES

The following courses are to be taken at the 200 Level.

- |                             |                                 |
|-----------------------------|---------------------------------|
| 1. Anatomy                  | 6. Pharmaceutical Microbiology  |
| 2. Biochemistry             | 7. Pharmacognosy                |
| 3. Physiology               | 8. General Studies (GST)        |
| 4. Physiology               | 9. Entrepreneurial Studies      |
| 5. Pharmaceutical Chemistry | 10. Community Studies Programme |

Anatomy, Biochemistry and Physiology courses will be taught in the School of Basic Medical Science, College of Health Sciences.

## COURSE OUTLINE

The 200 Level courses outline is presented in the table below:

### 200 LEVEL

#### First Semester

CODE	COURSE TITLE	CREDITS
ANA 201	Anatomy	2
BCH 213	Biochemistry I	3
PHS 201	Physiology Practical	-
PHS 205	Introduction and Blood Physiology	2
PHS 206	Cardiovascular & Respiratory Physiology	2
PCG 201	Pharmacognosy Practicals I	1
PCG 212	Introduction to Pharmacognosy	2
PCH 212	Pharmaceutical Chemistry I	2
PCT 201	Pharmaceutics (Dispensing) Practice I	-
PCT 212	Introduction to Pharmaceutics	2
PMB 212	Principles to Pharmaceutical Microbiology	2
GST 211	History & Philosophy of Science	2
EPS 211	Entrepreneurial Studies I	2
	<b>Sub-Total Units</b>	<b>22</b>

### SECOND SEMESTER

CODE	COURSE TITLE	CREDITS
ANA 202	Anatomy	2
BCH 223	Biochemistry II	3
PHS 207	Renal, Gastro-Intestinal & Endocrine Physiology	2
PHS 208	Neurophysiology & Special Senses	2
PHS 202	Physiology Practicals	1
PCH 221	Pharmaceutical Chemistry Practicals I	1
PCH 223	Pharmaceutical Chemistry II & Basic Method of Analysis	2
PMB 221	Pharmaceutical Microbiology Practicals I	1
PCT 201	Pharmaceutical (Dispensing) Practicals I	1
GST 221	Peace Studies and Conflict Resolution	2

	<b>Sub-Total Units</b>	<b>17</b>
	<b>Total Units</b>	<b>39</b>

### 300 LEVEL COURSES

The following courses are to be taken at 300 level:

1. Pharmaceutics & Pharmaceutical Technology
2. Pharmaceutical Chemistry
3. Pharmacology & Toxicology
4. Pharmacognosy
5. Pharmaceutical Microbiology
6. Pharmacy Practice

### COURSE OUTLINE

The 300 Level courses outline is presented in the table below:

#### FIRST SEMESTER

<b>CODE</b>	<b>COURSE TITLE</b>	<b>CREDITS</b>
PCH 311	Pharmaceutical Chemistry Practicals II	1
PCH 312	Pharmaceutical Organic Chemistry I	3
PCO 312	General Principles of Pharmacology	3
PCO 313	Autonomic/Neuro-Pharmacology	3
PCO 301	Pharmacology Practicals I	-
PCT 301	Pharmaceutics (Dispensing) Practicals II	-
PCT 312	Pharmaceutical Technology I	3
PMB	Disinfections & Sterilization	3
PPR 312	Pharmacy Management/Entrepreneurship I	2
PCN 312	Introduction to Public Health	2
	<b>Sub-Total Units</b>	<b>19</b>

#### SECOND SEMESTER

<b>CODE</b>	<b>COURSE TITLE</b>	<b>CREDITS</b>
PCH 322	Pharmaceutical Analysis I	3
PCH 323	Pharmaceutical Organic Chemistry II	2
PCO 301	Pharmacology Practical I	1
PCO 324	Systemic Pharmacology I	3
PCG 321	Pharmacognosy Practical II	1
PCG 322	Pests and Pest Control, Alternative Medicine and Poisonous Plants	3
PCT 322	Physical Pharmaceutics	3
PCT 301	Pharmaceutics (Dispensing) Practicals II	1
PMB 321	Pharmaceutics Microbiology Practicals II	1
PPR 322	Pharmacoeconomics	2
PCN 322	Phathophyiology	2
PPR 323	Pharmacy Management/Entrepreneurship II	3

	<b>Sub-Total Units</b>	<b>25</b>
	<b>Total Units</b>	<b>44</b>

#### 400 LEVEL COURSES

The following courses are to be taken at 400 Level.

1. Pharmaceutics & Pharmaceutical Technology
2. Industrial Training
3. Clinical Pharmacy & Pharmacy Practice
4. Pharmaceutical Chemistry
5. Pharmacology & Toxicology
6. Pharmaceutical Microbiology
7. Pharmacognosy

The 400 Level course outline is presented in a table below:

#### FIRST SEMESTER

CODE	COURSE TITLE	CREDITS
PCH 411	Pharmaceutical Chemistry Practicals III	1
PCH 412	Pharmaceutical Analysis II	2
PCO 411	Pharmacology Practical II	1
PCO 412	Central Nervous System Pharmacology	3
PCO 413	Chemotherapy	2
PCG 422	Physiochemical Technique: Phytochemistry of Secondary Plant Metabolites	3
PCG 411	Pharmacognosy Practicals III	1
PCT 411	Powder and Tablet Technology Practical	1
PCT 412	Pharmaceutical Technology II	3
PPR 412	Forensic Pharmacy & Pharmacy Ethics	3
PCN 415	Pharmacokinetics	3
PMB 411	Pharmaceutical Microbiology	1
PMB 413	Sterile Products Formulation & Immunology	2
	<b>Sub-Total Units</b>	<b>27</b>

#### SECOND SEMESTER

CODE	COURSE TITLE	CREDITS
PIT 401	Industrial Training	4
	<b>Sub-Total Units</b>	<b>4</b>
	<b>Total Units</b>	<b>32</b>

#### 500 LEVEL COURSES

The following courses are to be taken at 500 level.

1. Pharmaceutics & Pharmaceutical Technology
2. Clinical Pharmacy & Pharmacy Practice
3. Pharmaceutical chemistry

4. Pharmacology & Toxicology
5. Pharmaceutical Microbiology
6. Pharmacognosy
7. Project

### FIRST SEMESTER

CODE	COURSE TITLE	CREDITS
PCH 512	Medicinal Chemistry I	2
PCO 512	Endocrine/Autocoid Pharmacology	3
PCO 513	Haemopoietic/Biochemical Pharmacology	3
PCG 512	Phytochemical Techniques II: Secondary Plant Metabolites: Special Classes of Plant Products	3
PCT 512	Drug Delivery & Pharm. Technology	2
PCN 512	Pharmacotherapeutics I	2
PPR 512	Literature Evaluation and Communication Skills: The Pharmacist in Public Health Care (PHC)	2
PMB 512	Microbial Chemotherapy & Bacterial Genetics/Resistance	3
	<b>Sub-Total Units</b>	<b>20</b>

### SECOND SEMESTER

CODE	COURSE TITLE	CREDITS
PCH 523	Medicinal Chemistry II	2
PTX 522	Toxicology/Drug Interactions	2
PCT 523	Dosage Form Evaluation & Drug Stability	2
PCN 521	Clinical Pharmacy Clerkship	3
PCN 522	Clinical Pharmacotherapeutics II	2
PMB 522	Preservation & Fermentation Biotechnology	2
PPJ 501	Project	4
	<b>Sub-Total Units</b>	<b>17</b>
	<b>Total Units</b>	<b>37</b>

### INDEX FOR COURSE CODING

Each course code is made up of three letters representing the subject area, followed by a three-digit number for courses in pharmacy subject areas, the three digit number indicates as follows:

#### FIRST DIGIT

This refers to the level of course i.e 5 for 500 level, 4 for 400 level, 3 for 300 level, 2 for 200 level and 1 for 100 level.

#### SECOND DIGIT

This digit indicates the semester in which the course is taken.

- 0 Combined first and second semester
- 1 First semester course
- 2 Second semester course

### **THIRD DIGIT**

This indicates the type of course i.e theory or practical

- 0 Combined theory and practical course
- 1 Practical course
- 2 Theory course (numbered serially for any one level beginning from the first semester)

## **DEPARTMENT OF PHARMACEUTICS & PHARMACEUTICAL TECHNOLOGY**

### **A. COURSE SCHEDULE**

#### **200 LEVEL**

##### **1<sup>st</sup> Semester**

- PCT 212 Introduction to Pharmaceutics (2 credits, 30hrs)
- PCT 201 Practical Pharmaceutics (Dispensing)

##### **2<sup>nd</sup> Semester**

- PCT 201 Practical Pharmaceutics (Dispensing) 1 (1credit, 45hrs)

#### **300 LEVELS**

##### **1<sup>st</sup> Semester**

- PCT 312 Pharmaceutical Technology I (3credits, 45hrs)
- PCT 301 Practical Pharmaceutics (Dispensing) II

##### **2<sup>nd</sup> Semester**

- PCT 322 Physical Pharmaceutics (3 credits, 45hrs)
- PCT301 Practical Pharmaceutics (Dispensing)II (1 credit, 45hrs)

#### **400 LEVEL**

##### **1<sup>st</sup> Semester**

- PCT 421 Powder and Tablet Technology Practicals (1 credit, 45hrs)
- PCT 412 Pharmaceutical Technology II (3 credits, 45hrs)

##### **2<sup>nd</sup> Semester**

- PIT 401 Industrial Training (4 credits, 640hrs)

## **500 LEVEL**

### **1<sup>st</sup> Semester**

PCT 512 Drug Delivery and Pharmaceutical Technology (3 credits, 45hrs)

### **2<sup>nd</sup> Semester**

PCT 523 Dosage Form Evaluation Drug Stability (3 Credits, 45hrs)

PPJ 501 Project (4 credits, 180hrs)

## **B. DESCRIPTION OF COURSES**

### **PCT 212 Introduction to Pharmaceutics (2 Credits, 30hrs)**

Fundamental Operations in weighing: Errors in using dispensing balances: minimum weighable amounts and weighing techniques; conical and beaker shaped measures for dispensing liquids: errors in measurements and measuring techniques. Household measures and weighing of small amounts of materials.

Ethics of Dispensing and presentation of products: General dispensing procedure: the prescription: information given on the labels of dispensed medicines. Presentation of information on labels; additional labels. Pharmaceutical Calculation: percentage, proportional calculations and alligation: Calculations involving very small quantities.

Types of Pharmaceutical Proportional calculations and alligation: Calculations involving very small quantities.

Types of Pharmaceutical Preparation: Solutions, mixtures, linctuses, syrups, elixirs, oral liquids, emulsions, applications, lotions gargles, mouthwashes, nasal and ear drops. Divided and bulk powders, granules, cachets, capsules and tablets, etc.

Pharmaceutical solution and solubility: Factors affecting solubility and rate of solution: solutions of liquids in liquids; The distribution of solutes between immiscible liquids and applications of the distribution law in pharmacy; Colligative Properties of solutions.

Phase equilibria: The phase rule; Systems of one and two components and applications in pharmacy, e.g. eutectic mixture and sublimation (freeze) drying.

### **PCT 201 Practical Pharmaceutics (Dispensing) I (1 Credit, 45hrs)**

Schedule 1: Preparation of mixtures

Schedule 2: Preparation of syrups, elixirs and linctuses

Schedule 3: Preparation of lotions and liniments

Schedule 4: Preparation of collodions and paints

Schedule 5: Preparation of gargles, inhalations nasal drops

Schedule 6: Preparation of enemas and irrigations

Schedule 7: Preparation of Powders.

### **PCT 312 Pharmaceutical Technology I (3 Credits, 45hrs)**



**Dispersed system:**

**Suspension:** factors affecting the preparation of a physically stable suspension: flocculated and deflocculated system: caking and resuspension; sedimentation, behaviour of flocculated and deflocculated suspensions: pharmaceutical applications of suspensions; colouring agents used in the formulation of suspensions.

**Emulsions and emulsifications:** types of emulsion and testing of emulsion types: theories of emulsions (Bancroft's Harkens oriented wedge and the complex film theories); emulsifying agents and their classification; methods available for the preparation of emulsion; preservation and stability of emulsions; concept of hydrophile-lipophile-balance (HLB); formation of emulsions by HLB methods: methods for determining HLB numbers;

**Semi-solid emulsion:** Creams-types of preparation; Ointments types of ointment bases; Pastes - their bases and methods of preparation; Jellies and Poultrice e.g kaolin poultrice; Gels; The structure and properties of gels, application of gels in pharmacy.

**Suppositories and Pessaries:** method of their preparation, shapes and sizes, properties of an ideal suppository base; types of suppository bases: general methods of preparations of suppositories and their packaging.

**Filtration:** factors affecting filtration; mechanism of filtration; filter media and aids; filtration equipments (continuous rotary vacuum filter, the filter press and the edge filters)

**Centrifugation:** principle of centrifugation: laboratory and large scale centrifuges

**PCT 323 Physical pharmaceutics (3 credits, 45hrs)**

**Adsorption:** The mechanism of adsorption: The langmuir and B.E.T. Isotherms, chemisorption; and factors affecting the amount adsorbed; application of adsorption in pharmacy.

**Surface and interfacial phenomena:** surface tension: contact angle and the wetting of solid, spreading of one liquid over another, mechanism of capillary rise and effect of temperature, methods of determining surface tension.

**Surface active agents and their classification:** pharmaceutical applications and medicinal importance of surface active agents.

**Bulk Properties of Surfactant Solutions:** micelle formation and methods for the determination of the critical micelle concentration (CMC); factors affecting micelles; stability of micelles.

**Solubilization:** factors affecting solubilization: and pharmaceutical application of solubilization.

**Colloidal systems:** classification of colloids; properties of colloids solutions; preparation of lyophobic solutions; stability of lyophobic colloids.

**Rheology:** Newtonian fluids; flow characteristics of Newtonian fluids and effect of temperature; determination of viscosity principles of capillary tube; Redwood and falling sphere viscometers; rotational viscometers; the flow properties of disperse systems

and viscosity coefficients of colloidal dispersions; viscosity imparting agents in pharmacy; non-Newtonian fluids plastic, pseudoplastic and dilatant flows; thixotropic systems; rheological properties of suspensions; emulsions, ointments and creams.

Mechanism of fluid flow: significance of Reynold's number; distribution of velocities across a tube and boundary layers.

**PCR 301 Practical Pharmaceutical (Dispensing) II (1 credit, 45hrs)**

Schedule 1: Preparation of emulsions

Schedule 2: Preparation of ointments

Schedule 3: Preparation of creams

**PIT 401 Industrial Training (4 credits, 640hrs)**

This is a supervised work experience progress of approximately three months duration, commencing with the long vacation (following the end of the 300 level 2<sup>nd</sup> semester examinations) and ending in November, or an appropriate date stipulated by the Industrial Training Co-ordinator. During the programme, students are attached to pharmaceutical establishments including drug manufacturing industries, hospital pharmacies and community pharmacies. The objectives is to expose students to pharmacy practice in an actual work-related environment. Each students keeps a record of his/her training and experience during the programme in a log book and is visited for supervisory purpose by an academic staff member from the School. In addition, an experienced pharmacist located in the pharmaceutical establishment to which the student is attached provides day-to-day supervision.

**PCT 411 Powder and Tablet Technology Practicals (1 credit, 45hrs)**

Measurement of flow properties of powder

Assessment of degree of mixing in powders

Granulation techniques and drying processes

Introduction to tablet machines and their maintenance

Compression of tablets

In-process controls in tableting

**PCT 142 Pharmaceutical Technology II (3 credits, 45hrs)**

**Size classification: Size classification:** Particle shape and size; sieving and sifting; determination of particles size.

**Comminution:** General principles. Size distribution during comminution and importance of fine particle in pharmacy.

**Communiting machines**

Mixing: Definition and objective of the mixing process, mixing process and types of mixtures. The scale of scrutiny.

The mixing of solids; some properties of random mixture. The degree of mixing and de-mixing of powders.

Assessment of degree of mixing.

Drying of solids; the rate of drying and the distribution of moisture in solids. The three stages of moisture distribution in a drying particulate bed. Factors involved in the selection of drying methods and choice of drying equipment; freeze drying.

**Flow properties of powders:** Methods for the determination of angle of repose; factors affecting the angle of repose; flow of powders through tubes and holes; cohesive pharmaceutical powders; experimental methods used for measuring the “cohesiveness” of powder beds; e.g., the split method of Tideswell and Dodyfield and the Ashton et al apparatus; factors affecting the tensile strength of powders, factors affecting the flow properties of powders e.g., Effect of particle shape and size; moisture; glidants and temperature.

**Granulation and Tablet Technology:** Reasons for and methods of granulation; essential granule properties. Tablet manufacture; types of compressed tablets; formulation of tablets; excipients; the compression of granules, compression of weight and pressure; principles of the operation of single punch and multiple (rotary) punch tablet machines; problems encountered during tablet manufacture and ways to remedy them.

**Tablet coating:** Types of coating materials and methods -pan, sugar, film and enteric coating; requirements for core tablets and coating of granules; fluidized bed and compression coating.

**Capsules:** Hard gelatin capsules; materials for capsules; method of capsule production; capsule filling; equipment and operations; formulation and finishing of capsules; soft gelatin capsules; nature of the soft gelatin shells and of the capsule content.

## **PCT 512 Drug Delivery and Pharmaceutical Technology (3 credits, 45hrs)**

**Biopharmaceutics:** The areas to be covered in this course will include the fate of a drug after administration; physical significance of drug concentration in the blood; biological factors in drug absorption; physicochemical factors affecting absorption; dosage form consideration in gastrointestinal absorption; bioavailability and bioequivalence. In addition, the problems associated with pre- formulation of drugs and the design of dosage forms from an industrial perspective will be discussed.

Correlation of in-vitro and in-vivo data tests: Examples of correlation of in-vitro and in-vivo data of some drugs, e.g., aspirin, digoxin, grieseofulvin and oxytetracyclin tablets and capsules.

Problems involved in obtaining perfect correlation. Regulatory affairs and clinical trials will also be discussed.

**Drug Delivery Systems and Biotechnology:** Drug release mechanisms; ocular, transdermal and trans-nasal delivery systems; other novel drug delivery systems; site-specific/targeted delivery; bioartificial organs; production of therapeutic proteins/biochemicals; gene therapy/genetic engineering protein/peptide delivery, liposomes, polymeric substances; design of therapeutic and diagnostic agents.

***Aerosol Science and Technology:*** Formation of aerosols; basic aerosols technology; formation techniques of different aerosol systems; factors affecting spray characteristics of aerosols; filling techniques and testing methods of aerosol packs.

### **PCT 523 Dosage Form Evaluation and Drug Stability (3 credits, 45hrs)**

Pharmaceutical Evaluation of Dosage Forms

***Liquids:*** Labeling and packaging, description, content, appearance (colour, clarity, etc), pH, weight per ml, refractive index, etc.

***Semi-solids:*** Labeling and packaging, description, content, appearance, weight per ml.

***Tablets and Capsules:*** Labeling and packaging, description, appearance. Standard for tablets and capsules: Shape, weight, content of medicaments, diameter, hardness and friability; disintegration and dissolution tests for tablets and capsules. In- vitro dissolution tests for solid dosage forms: Natural convection Non-sink methods such as solvometer, hanging pellet, and static disc methods, forced convection non-sink methods such as Wruble, beaker, oscillating tube rotating disc, Sounder & Ellenbogen methods, and forced convection-sink methods (e.g., adsorption, partition, dialysis and column methods). Continuous flow through system.

Drug stability: Incompatibility in liquid dosage forms; chemical degradation of pharmaceutical products (hydrolysis, oxidation, isomerization, polymerization, decarboxylation and adsorption of carbon dioxide); physical factors influencing chemical degradation (temperature, moisture, light and radiation): factors influencing and methods of reducing chemical degradation; physical degradation of pharmaceutical products e.g., loss of volatile constituents, loss of water, adsorption of water, crystal growth, polymorphic changes and colour changes. Microbiological degradations.

Accelerated stability testing.

***Packaging Materials*** general principles

Metals (e.g., tin, iron and aluminium) and plastics solvent properties, toxicity, permeability and light transmission characteristics.

Glass mechanical strength and resistance to thermal shock. Flake and spicule formation; Paper and board; Closure testing:- folded, bung and push-on seals, reasons for test failures; Package testing.

### **PCT 501 Project (4 credits, 180hrs)**

This course is a project assigned to the student under the supervision of one or more academic staff.

## DEPARTMENT OF PHARMACEUTICAL CHEMISTRY

### A. COURSE SCHEDULE

#### 200 Level

##### 1<sup>st</sup> Semester

PCH 212      Pharmaceutical Chemistry I (2 Credits, 30hrs)

##### 2<sup>nd</sup> Semester

PCH 221      Pharmaceutical Chemistry Practicals (1 Credit, 45hrs)

PCH 223      Pharmaceutical Chemistry II (2 Credits, 30hrs)

#### 300 Level

##### 1<sup>st</sup> Semester

PCH 311      Pharmaceutical Chemistry Practicals II (1 Credit, 45hrs)

PCH 312      Pharmaceutical Original Chemistry I (3 Credit, 45hrs)

##### 2<sup>nd</sup> Semester

PCH 322      Pharmaceutical Analysis I (3 Credit, 45 hrs)

PCH 323      Pharmaceutical Organic Chemistry II (2 Credits, 30 hrs)

#### 400 Level

##### 1<sup>st</sup> Semester

PCH 412      Pharmaceutical Analysis II (3 Credits, 30hrs)

PCH 411      Pharmaceutical Chemistry Practical III (1 Credit, 45 hrs)

#### 500 Level

##### 1<sup>st</sup> Semester

PCH 512      Medical Chemistry I (2 Credits, 30hrs)

##### 2<sup>nd</sup> Semester

PCH 523      Medical Chemistry II (2 Credits, 30hrs)

PPJ 501      Project (4 Credits, 180hrs)

### B. DESCRIPTION OF COURSES

## **PCH 212      Pharmaceutical Chemistry I ( 2credits, 30hrs)**

### **(i)      Atomic and Molecular Structure**

In this course, a short review of electronic structure of atoms and molecules including introduction of quantum theory, application of Shrodinger equations to simple systems (e.g. the Hydrogen atom) to show the origin of the n,l,m,s. nomenclature will be carried out. The relationship between the electronic structure of elements and the formation of covalent, ionic and coordinative (dative) bonds leading to complexation and chelation and the nature and pharmaceutical important application of co-ordination compounds, metal complexes and chelating agents will be discussed.

### **(ii)      Pharmaceutical Inorganic Chemistry**

This course will involve a comparative study of the physic-chemical properties, preparation and uses of the elements of the periodic table and their compounds of pharmaceutical importance. The chemical basis for the pharmaceutics uses will also be emphasized.

## **PCH 223      Pharmaceutical Chemistry II (2 Credits, 30 hrs)**

### **(i)      Physical Chemistry**

Review of principles of thermodynamics, chemical and ionic equilibria, and chemical kinetics relevant to pharmacy effect of these on the feasibility of drugs, synthesis. Mixing, solubility, biological redox systems.

### **(ii)      Radiochemistry/Radiopharmacy**

**introduction to Radiochemistry:** Types of radioactivity and radio-active decay particles and their measurements, Pharmaceutical application of radioisotopes.

(iii) A brief review of fundamental concepts in Organic Chemistry such as bonding and reactivity of organic compounds, hybridisation, resonance theory, inductive, mesomeric hyperconjugative and electrometric effects.

(iv) General review of organic reactions leading to interconversion and modification of functional groups through nucleophilic and electrophilic substitution, elimination addition and rearrangement reactions. Utility of these reactions for isolation, characterisation, elucidation of structure and synthesis of medicinal products.

## **PCH 221 Pharmaceutical Chemistry Practicals I (1 Credit, 45hrs)**

Practical exercises in quantitative analysis of compounds of pharmaceutical important. Standardization of NaOH (use of primary standard). Standardization of HCl (use of secondary standard)

Determination of the percentage of acetylsalicylic acid in Aspirin. Determination of the percentage of sodium salicylate in a given sample.

Determination of sodium potassium lactate, Rochelle salt  $\text{NaKC}_4\text{H}_4\text{O}_6 \cdot 4\text{H}_2\text{O}$   
Standardization of 0.1N  $\text{KMnO}_4$  solution, determination of  $\text{Fe}_2\text{SO}_4$  in a given sample.

Determination of percentage of Calcium lactate in the given sample Standardization of 0.1N sodium thiosulphate solution of Iodine, B.P determination of strong iodine solution.

Determination of percentage of w/v C<sub>6</sub>H<sub>5</sub>OH (phenol). Determination of percentage of NH<sub>4</sub>Cl (Ammonium Chloride) in the given sample.

Gravimetric determination of sulphur

### **PCH 312    Pharmaceutical Organic Chemistry I (3 credits, 45hrs)**

Types of organic reaction mechanisms taken in relation to types of organic functional groups, effects on their stability. Use in pharmacy. Other physicochemical properties, solubility, absorption, distribution and excretion when found in drug molecules. Functional groups to be treated include Aldehydes and Ketones, alcohols and phenols, carboxylic acids and their derivatives (amides, esters, acid anhydrides, Acyl halides) and sulphonic acid, also to be treated and amines and are imines, nitriles, nitro and nitroso groups and azo-compounds.

General review of the concept of aromaticity in benzene and how this affects substitution in such structures.

#### **Stereochemistry**

Review of total concept of stereoisomerism as distinct from isomerisms of other types-optical and geometrical isomerism, chiral and achiral molecules, stereoisomerism and molecular conformation in relation of drug action through drug-receptor interaction. Biological examples, Determination of configuration- spectroscopic methods,

Resolution of racemic mixtures and importance in Pharmacy using named medicinal examples. Optical rotatory dispersion and its uses. Importance of stereochemistry in terpenes.

### **PCH 323    Pharmaceutical Organic Chemistry II (2 credits, 30hrs)**

#### **(i)    Synthetic Methods in Medical Chemistry**

Carbon-carbon, carbon-nitrogen, carbon-oxygen, carbon sulphur, etc, bond forming reactions as well as other functional group reactions and their applications to synthesis of organic compounds with examples from biological active compounds. Reactions leading to modification of functional groups such as oxidation and reduction reactions. A brief review of organo-metallic chemistry and its pharmaceutical compounds.

#### **(ii)    Chemistry of Heterocyclic compounds**

Nomenclature, properties, preparations reactions and general chemistry of the following hetero-aromatics-furan, thiophen, pyrrole, pyridine, isoquinoline quinoline, and important pharmaceutical compound derived from them.

### **PCH 311    Pharmaceutical Chemistry Practical II (1 credit, 45hrs)**

The practical exercise will incorporate the following techniques in organic chemistry.

Purification: Separation techniques (neutral, Neutral and acidic, neutral and basic, acidic and basic;

Recrystallisations; Distillations; Chromatography

Criteria of purity (Tests for purity): Melting point; Boiling point; Chromatography

Qualitative organic Analysis: Different types of organic compounds possessing various functional grouping will be used for the exercise.

### **PCH 322    Pharmaceutical Analysis (2 Credits, 30hrs)**

#### **(i)    Instrumental Methods of analysis of pharmaceuticals.**

Absorption spectrophotometry, Infra-red spectroscopy, Fluorimetry, Atomic Absorption spectroscopy, N.M.R.

Spectrometry: Gas-liquid chromatography; HPLC; Other methods; e.g. Polarography, Potentiometry, and Polarimetry, Mass Spectrometry.

(ii)    Official standards for pharmaceutical chemicals and formulated products which are designed primarily to set limit of tolerance for the product at the time it reaches the patient. Such quality criteria which are specified in official monographs for pharmaceutical chemical include: A description of the drug or product, Solubility, Test for identity, Physical constants, Quantitative assay of pure chemical entity in the case of pharmaceutical chemicals, or of the principal active constituents in the case of formulated product, Limit tests to exclude excessive contamination, and Storage conditions. In addition to the above, the students should be aware of the source of impurities in pharmaceutical. The methods mentioned above should include Acid-base titrations, non aqueous acid base titrations, oxidation-reduction titrations, complexometric titrations, gravimetry and limit tests.

### **PCH 412    Medicinal Chemistry I (3 credits, 45hs)**

Drug quality assurance system: Monographs and specifications for drugs and drug products. Applications of chemical and physicochemical analytical methods in purity determinations; identification of pharmaceuticals, radio-pharmaceuticals and medicinal products; Basic tests methodology for essential drugs. Equivalence and biopharmaceutical methods in purity determination. Analysis of drugs in biological samples.

### **PCH 411    Pharmaceutical Chemistry Practicals III (1 Credit, 45hrs)**

Organic Synthesis on medicinal compounds involving several stages, e.g., preparation of benzocaine (Ethyl-p-aminobenzoate); Preparation of Aspirin; Preparation of Sulphanilamide; Instrumental Methods of Analysis involving Refractometry, Colorimetry and colorimetric methods, Potentiometric methods (use of pH and pH determination hydrolysis); Demonstration of IR, UV/Visible spectrophotometry for the analysis of drugs or organic compounds.

### **PCH 512    Medicinal Chemistry I (2 credits, 30hrs)**

(i)    Drug design: Physico-chemical approaches to drug design, Historical, Free-Welcon and Hansch approaches. The concept of isosterism. Bioisosterism as a tool in drug design. SAR in drug design. Anti-metabolite and pro-drug approach to design of new drugs.

(ii)    Medicinal chemistry of some selected compounds, A study of the following classes of drugs in respect of their nomenclature, physical and chemical properties, structure-activity, relationship, synthesis (when necessary), assay, metabolism, where applicable and uses, General and Local anaesthetics, Sedative-hypnotics- benzodiazepines; Antipsychotics-



phenothiazines; Anticonvulsants-phenytoin, carbamazines, Analgesics; Antidepressants-mepramine.

(iii) Chemistry of drug metabolism.

**PCH 523 Medicinal Chemistry I (2 Credits, 30hrs)**

Study of the chemistry of medicinal compounds: The chemistry, nomenclature, physico-chemical properties, stereochemistry synthesis (where necessary), structure-activity relationship, metabolism and uses of the following groups of drugs:

- (i) Antihypertensive, diuretics, steroids including steroidal hormones, chemotherapeutic agents such as sulphonamides, anti-malarials, antibiotic, anthelmintics, trypanocides, schistosomicides, amoebicides, anticancer and antiviral agents.
- (ii) Photochemistry: general principles, characteristics of photochemical reactions and application both in the synthesis and spoilage of drugs.

**PPJ 501 Project (4 credits, 180hrs)**

This course is a project assigned to the student under the supervision of one or more academic staff.

## DEPARTMENT OF PHARMACEUTICAL MICROBIOLOGY

### A. COURSE SCHEDULE

#### 200 LEVEL

##### 1<sup>st</sup> Semester

**PMB 212** Principle of Pharmaceutical Microbiology (2 credits, 30hrs)

##### 2<sup>nd</sup> Semester

**PMB 221** Practical Pharmaceutical Microbiology I (1 credit, 45hrs)

#### 300 Level

##### 1<sup>st</sup> Semester

**PMB 312** Disinfection and Sterilization (3 credits, 45hrs)

##### 2<sup>nd</sup> Semester

**PMB 321** Practical Pharmaceutical Microbiology II (1 credit, 45hrs)

#### 400 Level

##### 1<sup>st</sup> Semester

**PMB 411** Practical Pharmaceutical Microbiology III (1 Credit, 45hrs)

**PMB 413** Sterile Products Formulation, and Immunology (2 Credits, 30hrs)

#### 500 Level

##### 1<sup>st</sup> Semester

**PMB 512** Microbial Chemotherapy and bacterial Genetics (3 credits, 45hrs)

##### 2<sup>nd</sup> Semester

**PMB 523** Preservation and fermentation Biotechnology (2 credits, 30hrs)

**PPJ 501** Project (4 credits, 180hrs)

### B. DESCRIPTION OF COURSES

**PMB 212 Principle of Pharmaceutical Microbiology (2 credits, 30hrs)**

General structure of the bacterial cell, the bacterial spore, its structure and resistance to inactivating agents.

Systematic classification of bacterial and characteristics of major groups - Taxonomy, protoplasts, spheroplasts and L-Forms. Nutritional requirements and growth of bacterial culture media and evolution of pure culture technique.

Enumeration of microorganisms, Fungi and moulds; their importance in pharmacy, and medicine. The Rickettsia, Chlamydia, Viruses (including HIV/AIDS) and viral replication. Introductory parasitology, Protozoal parasites of public Health importance.

### **PMB 221 Practical Pharmaceutical Microbiology I (1 credit, 45hrs)**

The practical exercises in this course are designed to make the students appreciate some of the principles and techniques, which are unique to the field of microbiology. They include exercises on ubiquity of microorganisms: effect of environments and microscopic examinations of bacteria.

### **PMB 312 Disinfection and Sterilization (3 credits, 45hrs)**

The preparation and handling of sterile pharmaceutical products requires the adoption of techniques aimed at minimizing or completely eliminating the possibility of contamination by microorganisms, whether pathogenic or not.

This is a theoretical and practical course on disinfection and sterilization designed to ensure basic knowledge acquired for performance of these skills. They include; General principles of physical and chemical sterilization.

Chemical disinfections and microbiology of air; properties of ideal chemical disinfectant, and factors affecting the activity of chemical disinfectants and disinfection. The major groups of chemical disinfectants. Their properties, storage and uses. Method of evaluation of potency of disinfectants and antiseptics; Extinction Time and phenol Coefficient Methods. Bacteriostatic and Fungistatic activity determinations. Modes of action of chemical antibacterial agents used as disinfectants and antiseptics. The design of aseptic room and the provision of clean air.

Official Methods of sterilization by heat; other methods of sterilization e.g., Uses, of gases, radiation and filtration.

Sterility Testing of Filtration sterilized products and of bacteria proof filters.

PMB 321 Practical Pharmaceutical Microbiology II (1 credit, 45hrs) This course is designed to augment and enhance understanding of the principles studied in PMB 312, for example exercises are carried out on factors affecting bactericidal activity, determination of phenol coefficient values etc.

### **PMB 413 Sterile Products Formulation and Immunology (2 credits, 30hrs)**

Parenteral products, injection (single and multi-dose), eye preparations and contact lens solutions their formulation, preparation and use; solvents for parenteral preparations; pyrogens and apyrogenic water, effects of routes of administration on parenteral products; Immunity, antigens, antibodies, their reactions and their applications, theories of AB production; hypersensitivity, allergy, atopy and other outcome of antigen-

antibody reactions; immunological products; production and quality control; types of bacterial and viral vaccines; toxoids; immunosera; diagnostic reagents e.g. Schick, Dick and Tubercullin Testing reagents.

**PMB 411 Practical Pharmaceutical Microbiology III (1 credit, 45hrs)**

The focus of this course is aseptic techniques and preparation of some sterile products such as eye drops and single-use parenteral large volume solutions.

**PMB 512 Microbial Chemotherapy and Bacterial Genetics (3 credits, 45hrs)**

Brief historical perspective of chemotherapy. Fundamental principles of rational chemotherapy - selective toxicity principle. Classification of antimicrobial agents with special reference to mechanism of action and chemical structures. Drugs inhibiting cell- wall synthesis - beta-lactam antibiotics. Inhibitors of protein synthesis-aminoglycosides, macrolides, tetracyclines. Drugs, which interfere with cell membrane integrity. Inhibitors of RNA and DNA Synthesis - refamyans and quinolones. Miscellaneous antimicrobials e.g, sulphonamides, trimethoprin, fusidic acid, clindamycin, lincomycin, chloramphenicol, Antifungal Agents. Antiviral Agents. Interferon and interferon inducers. Chemotherapy of some parasitic infections. Development of resistance to antibiotic by microorganisms: plasmid mediated and biochemical basis. Control of emergence of resistance.

Introduction to Bacterial Genetics and Genetic engineering.

**PMB 523 Preservation and Fermentation Biotechnology (2 credits, 30hrs)**

General principle of spoilage and preservation against biodegradation. Raw Materials quality. Water and its purity, In-process Microbiological Controls; Quality Assurance of finished products; limiting number of viable organisms. Principle of preservation of multiphase systems. Factory and Hospital hygiene. Code of Good Pharmaceutical Manufacturing Practice (GPMP). Fundamental of Industrial Fermentation. Use of Micro Organisms in Biotechnology. Search for Cultures. Approaches in Strain Development Genetic/Enzymatic engineering techniques. Selective isolation of Mutants, maintenance and Preservation. Media development and processing. Fermentation and product recovery. Primary and Secondary Metabolites.

**PPJ 501 Project (4 credits, 180hrs)**

This course is a project assigned to the student under the supervision of one or more academic staff.

## DEPARTMENT OF PHARMACOGNOSY

### A. COURSE SCHEDULE

#### 200 Level

##### **1<sup>ST</sup> Semester**

PCG 211	Introduction to Organized Vegetable Drugs	(1 Credit, 15h)
PCG 212	Practical Pharmacognosy I	(1 Credit, 45h)

##### **2<sup>ND</sup> Semester**

PCG 221	Introduction to Unorganized Vegetable Drugs	(1 Credit 15h)
PCG 212	Practical Pharmacognosy I	(1 Credit, 45h)

#### 300 Level

##### **1<sup>ST</sup> Semester**

PCG 311	Practical Pharmacognosy II	(1 Credit, 45h)
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##### **2<sup>ND</sup> Semester**

PCG 321	Phytochemistry and Biogenesis of Drugs of Natural Origin	(3 Credits, 45h)
PCG 311	Practical Pharmacognosy II	(1 Credit, 45h)

#### 400 Level

##### **1<sup>ST</sup> Semester**

PCG 411	Plant Cultivation, Alternative Medicine and Poisonous Plants	(3Credits, 45h)
PCG 412	Practical Pharmacognosy III	(1 Credit, 45h)

#### 500 Level

##### **1<sup>ST</sup> Semester**

PCG 511	Nigerian Medicinal Plants, Pesticides, and Biogenetic Investigations	(3 Credits, 45h)
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##### **2<sup>ND</sup> Semester**

PPJ 501	Project in Pharmacognosy	(4 Credits, 180h)
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### B. DESCRIPTION OF COURSES

#### **PCG 211 Introduction to Organized Vegetable Drugs (1 Credit, 15h)**

Introduction to Pharmacognosy: Definition and relationship with other sciences, botanical nomenclature and keys, Basic plant cell and anatomy, Use of Microscopes, Photosynthesis.

Organized (Cellular) Drugs: a)Microscopy, microscopy, biological and geographical sources, cultivation, collection and preparation, constituents, substitution, adulteration, uses of crude drugs e.g. senna leaf, cascara bark, rauwolfia root, ginger rhizome, clove flower buds; simple chemical tests. b) Carbohydrates and their derivatives such as monosaccharides, disaccharides, algae polysaccharides (alginic acid, alginates, carrageneans and agar); c)Honey, gums and mucilages including pharmaceutical applications.

**PCG 221 Introduction to Unorganized Vegetable Drugs (1 Credit, 15h)**

Unorganized (Acellular) Drugs: a) Plant lipids such as fixed oils, fats and waxes, peanut, corn, olive, castor, soyabean and theobroma oils. Test and quality control; b) Volatile oils and resins (sources, composition, preparation of peppermint, caraway, lemon, eucalyptus and ginger oils); c) Balsams and oleoresins (Tolu and Peru balsams, Colophony resin)

**PCG 212 Practical Pharmacognosy I (1 Credit, 45h)**

This is designed to introduce the students to laboratory work in pharmacognosy in order to enhance their knowledge in the science of the course. The laboratory work will include identification tests for sugars, genuine starches, gums, oils, fats and waxes, volatile oils.

**PCG 321 Phytochemistry and Biogenesis of Drugs of Natural Origin (3 Credits, 45h)**

Phytochemistry and biogenesis of alkaloids (tropane, pyrrolizidine, quinoline, piperidine, isoquinoline, indole, bis-indole and steroidal types), as well as Glycosides (saponins, cardiac, anthraquinone, cyanogenetic types, flavonoids and tannins); Proteins, sweeteners and botanical enzymes e. g. papain, bromelain, ficin; Chromatographic techniques (PC, TLC, GLC, HPLC, gel filtration, electrophoresis); Field Trips.

**PCG 311 Practical Pharmacognosy II (1 Credit, 45h)**

Laboratory exposure to phytochemical methods, exercises on various types of chromatographic techniques, and identification tests for drugs from natural origin.

**PCG 411 Plant Cultivation, Alternative Medicine and Poisonous Plants (3 Credits, 45h)**

Cultivation of medicinal plants, Collection and preparation of crude drugs; Evaluation of crude drugs; Standardization of herbal potions and plant procedure in modern medicine; Fibres and surgical dressings; Role of regulatory bodies (WHO, NAFDAC, PCN) on herbal potions; Types of alternative medicines (acupuncture, ayurveda, homoeopathy, naturopathy, aromatherapy); Techniques of administering alternative medicine (bone setting blood letting, psychotherapy, faith healing, trephination, abdominal surgery); State of herbal medicine practice in Nigeria; Poisonous and regulated medicinal plants (botanical sources, constituents, chemical tests, biological activities, antidotes to poisoning by *Solanum* spp. *Abrus precatorius*, *Nicotiana* spp. etc.)

**PCG 412 Practical Pharmacognosy III (1 Credit, 45h)**

Plant collection, preparation and storage of herbarium specimens, macroscopy and microscopy of selected plants and crude drugs, evaluation and standardization of crude drugs, WHO quality control parameters.

**PCG 511 Nigerian Medicinal Plants, Pesticides and Biogenetic Investigations (3 Credits, 45h)**

a) Pharmacological and toxicological study of selected Nigerian medicinal plants (e. g. Neem, Rauwolfia, Catharanthus, Fagara) for the treatment of malaria, hypertension, diabetes, sickle cell disease; antimicrobial, anticancer and cytotoxic agents; geographical sources, local names, ethnomedicinal uses, macroscopy, microscopy and chemical constituents.  
b) Plants as sources of vitamins, including cod liver oil and yeast

- c)Pesticides and allergens: types and effects of botanical pesticides, herbicides, insecticides, molluscicides (their botanical sources, chemical nature and effects on man and animals),
- d)Methods of investigation in biogenetic studies (tracer techniques, precursor-product sequence, competitive feeding etc
- e)Introduction to tissue culture as source of drugs

**PPJ 501**

**Project**

**(4 Credits, 180h)**

This course is a project assigned to the student under the supervision of one or more academic staff. The research result is bound and orally assessed.

**DEPARTMENT OF PHARMACOGNOSY STAFF**

<b>s/ n</b>	<b>NAMES (Surname first)</b>	<b>Area of specialization</b>	<b>Qualifications</b>	<b>Position/ Status</b>	<b>Date of Appointmen t</b>	<b>Full time/ Associat e Lecturer</b>
1	GBOLADE, A.A.	Phytochemistry, ethnobotany, tissue culture	BPharm 1980, MPhil 1984 (Ife); PhD Pharmacognos y 1989 (Manch.)	Professor & H.O.D	4 <sup>th</sup> August 2015	Full Time
2	EHIAGBONARE, J. E.	Botany	HND Forestry 1971 (Ibadan), MSc botany 1995 (AAU), PhD botany 2002 (AAU)	Professor	1 <sup>st</sup> September, 2002	Full Time
3	ADEBAYO, M. A.	Phytochemistry	BSc botany 1992, MSc Pharmacognos y 2000 (Ibadan)	Lecturer I	3 <sup>rd</sup> Nov 2008	Full Time
4	FAJANA, A.	Phytochemistry	BSc botany 1994 (UNAD), MSc Pharmacognos y 2006 (Lagos)	Lecturer II	3 <sup>rd</sup> July, 2010	Full Time
5	ADEDOKUN, A.O.	Phytochemistry	BSc biochem 2007 (OOU), MSc Pharmacognos y 2015 (Uniben)	Assistant Lecturer	27 <sup>th</sup> April, 2015	Full Time
6	IKHILE, B. U.	Laboratory technology	Contract	Chief technologis t	September, 2005	Full Time
7	OMOBUDE, O	-	NECO 2009	Lab Asst	20 <sup>th</sup> June 2011	Full Time
8	IGHODARO, M (Mrs.)	Pharm technology	Pharm Tech Cert 1983	Pharm technologist	15 <sup>th</sup> August, 2012	Full Time
9	OMONFUOMWAN, F	-	NECO 2005	Senior Lab Asst	30 <sup>th</sup> Nov, 2010	Full Time



## DEPARTMENT OF CLINICAL PHARMACY AND PHARMACY PRACTICE

### A. COURSE SCHEDULE

#### 300 Level

##### 1st Semester

PPR 312 Pharmacy Management/Entrepreneurship I (2 Credits, 30hrs)

PCN 312 Introduction to Public Health (2 Credits, 30hrs)

##### 2nd Semester

PPR 322 Pharmacoeconomics (2 Credits, 30hrs)

PCN 322 Pathophysiology (2 Credits, 30hrs)

PPR 323 Pharmacy Management/Entrepreneurship II (3 Credits, 45hrs)

#### 400 Level

##### 1st Semester

PPR 412 Forensic Pharmacy/Pharmacy Ethics (3 Credits, 45hrs)

PCN 415 Clinical Pharmacokinetics I (3 Credits, 45hrs)

#### 500 Level

##### 1st Semester

PCN 512 Pharmacotherapeutics (2 Credits, 30hrs)

PPR 512 Literature Evaluation and Communication Skills; The Pharmacists in PHC  
(2 Credits, 30hrs)

##### 2nd Semester

PCN 521 Clinical Pharmacy Clerkship (3 Credits, 135hrs)

PCN 522 Clinical Pharmacokinetics II (2 Credits, 30hrs)

PPJ 501 Project (4 Credits, 180hrs)

### SCHEDULE OF COURSE

**PPR 312 PHARMACY MANAGEMENT/ ENTREPRENEURSHIP I**  
**(2 Credits, 30hrs)**

#### COURSE OUTLINE

1. **Definition, Purpose and Scope**

Definition of terms, nature and functions of entrepreneurship (including Pharmacy Business); type of entrepreneurship

2. **Management Skills**

Management and administration defined.

Management process; importance of management in pharmacy business (customers, clients, patients, public relationship, retail competitions selling, medical/sales representatives in hospitals/community pharmacies.)

Industrial pharmaceutical organization (medical/sales representatives); marketing (concept; functions, marketing mix and communication, product growth, salesmanship) Advertising and sales promotion, personnel management (leadership, recruitment, remuneration, negotiation, staff training, evaluation, motivation and management.

**3. Entrepreneurial Development**

Generating and developing business ideas; Conducting market surveys, preparing a business plan; selecting a business location.

Include roads, water and electricity supplies and appropriate technology for business.

**4. Policy and Legal framework**

Legal procedure; information services; intellectual property rights and patents of inventions; risk and insurance; legal aspects of employment; taxation; ethics and good business practice.

**PCN 312 Introduction to Public Health (2 credits, 30hrs)**

**COURSE DESCRIPTION/OBJECTIVE**

The objective of this course is to introduce the student as a potential healthcare practitioner to the basic philosophy and purpose of public health and hygiene.

**COURSE OUTLINE**

- Effect of population culture, development economy and government policies on public health.
- Organization/management of public sanitation and communicable diseases and health education.
- Current drug therapies for HIV/AIDS and the associated OI's (opportunistic infections)
- The emotional (psychological aspects of HIV)
- The role of the Pharmacist as HIV/AIDS counselor/educator (Pharm. Services)
- Mechanisms of infections host parasites relationship, transmission of infections development of drug resistance.
- Other related public health issues.

**PPR 322 Pharmacoeconomics (2 credits, 30hrs) COURSE OUTLINE**

Definition, Purpose and Scope

- Definition of relevant terms
- Overview of basic economics
- Structure and politics of Nigeria Healthcare system
- Healthcare Costs
- Pharmacoeconomics techniques (cost minimization, cost effectiveness, cost utility, cost benefits)
- Pharmaceutical outcomes
- Health Maintenance Organization (HMO's)
- National health Insurance Scheme (NHIS)

**PCH 322 Pathophysiology (2 credits, 30hrs)**

Principles of Diseases and basic pathology

### **COURSE DESCRIPTION:**

This course is designed to give the student an understanding of the pathologic basic of disease state.

At the end of this course, the student should be able to: understand the mechanism of cellular injury and death and the pathogenesis/pathophysiology of disease states.

### **COURSE OUTLINE**

- The normal cell and the adopted cell
- Cell injury and cell death
- Inflammation and repair
- Neoplasia and its clinical aspects.
- Disease Immunity
- Systemic diseases; (Diabetes mellitus, Anaemia (iron storage disorder); govt and urate deposits in the kidneys)
- Fluid and haemodynamic imbalances
- Infection diseases
- Deficiency diseases (protein-caloric malnutrition vitamins/mineral deficiencies)
- The cardiovascular system
- Lymph nodes and spleen
- All systems, skin liver, gastrointestinal tract, pancreas, breasts and biliary tract
- Application of knowledge to pharmaceutical care.

### **PPR 323: PHARMACY MANAGEMENT/ ENTREPRENEURSHIP II (3 CREDIT; 45 HOURS)**

#### **COURSE OUTLINE**

- Principle and methods of marketing
- Fundamental of Marketing drugs in the community-(layout, design and modernization of pharmacies.
- Fundamentals of accounting - specially adopted to pharmaceutical business operations principles of organization.
- Organizational control and management principals.
- Leadership
- Product Selection
- Personnel Selection
- Personal Selection
- Patterns and methods of drug distribution and advertising
- Pharmacy financing and administration
- Delegation
- Performance evaluation

#### **Records Systems**

- Contemporary concepts in pharmacy practices
- Computers, electronic data system in pharmacy
- (Costing and pricing products/services. Analysis, Budgeting and cash flow.)

### **PCN 415: PHARMACOKINEICS I (3CREDITS, 45 HOURS) Terminal Objectives**

The students should be able to:

- Define the basic concepts of Pharmacokinetics
- Use raw data and derive the pharmacokinetic models and parameters that best describe the elimination.
- Critically evaluate biopharmaceutical studies involving drug product bioequivalence and bioequivalence.
- Design and evaluate dosage regimens of drug using pharmacokinetic and biopharmaceutical parameters

#### **COURSE OUTLINE**

- Definition of Terminology and symbols used in Pharmacokinetics
- Compartment models single and multiple compartment models
- Drug Absorption
- Bioavailability and Bioequivalence
- Drug Clearance
- Hepatics Elimination of Drugs
- Intravenous Infusions
- Multiple Dosage Regimens
- Prolonged Action dosage form Administration
- Non-linear Pharmacokinetics
- Relationships between pharmacokinetics Parameter and Pharmacologic Response
- Pharmacogenetics.

### **PPR 412 FORENSIC PHARMACY AND PHARMACY ETHICS (3 CREDITS; 45 HOURS)**

#### **COURSE DESCRIPTION**

Studies of various laws are regulations governing the practice of pharmacy, sale of drugs and pharmaceuticals. Need to explain the pharmacy laws in their relations to the broad principle of public law and civil code case histories can be relevant. The history of Pharmacy (globally and in Nigeria) and Pharmacists Act, Professional Responsibilities/Ethics.

#### **COURSE OUTLINE**

- History of Pharmacy-Nigeria/World
- Ethics of Pharmacy Profession in Nigeria
- Law related to NAFDAC

(National Agency for Food and Drug Administration and Control); NDLEA (National Drug Law Enforcement Agency); son (Standard Organization of Nigeria), Pharmacists council of Nigeria (PCN);

WHO/FAO Codex Alimentarium Commission United Nations Narcotic Commission, federal Environmental Protection Agency (FEPA)etc

- Foods, Drugs and cosmetic laws including regulation, inspection, registration advertising, manufacturing, sales/distributions.
- Poisons, Drugs list (EDL)
- National Drug Policy;
- Fake And counterfeit drug laws

- Consumer Protection Council Law all other laws related to pharmacy practices, including those of pharmacists
- Disciplinary committee and Assessors rules
- Pharmacists registration rule
- Dispensing of Drugs
- Patent and Proprietary Medicine etc
- Legislation on animal products
- National Health Insurance Scheme (NHIS)
- Other Health Policies.

**A pass mark of 60% is required**

## **PCN 512 PHARMACOTHERAPEUTICS (2 CREDITS 30HOURS)**

### **COURSE DESCRIPTION**

The course involves the discussion of disease states of the cardiovascular gastrointestinal and respiratory systems infections diseases and minor illnesses and how they can be arrested or alleviated by drug therapy and other treatment modalities.

### **Objectives;**

The students should be able to:

- Have a good knowledge of the aetiology and pathophysiology of the disease states discuss.
- Identify the signs and symptoms characters of a given disease state and other drugs therapy options.
- Recognise the complications that may occur from drug therapy and be able to develop recommend appropriate measures.
- Develop skills necessary to make meaningful contributions to the investigation and management of patients with various diseases.

### **COURSE OUTLINE**

- Clinical Laboratory tests used in monitoring various disease states
- Aetiology, clinical manifestation and treatment of CHF (congestion Heart Failure) hypertension/stroke arrhythmia, ischaemic heart disease, angina and myocardial infarction, thrombo and pulmonary embolism, iron deficiency anaemia/sickle-cell anaemia, pepticulcer, diabetes mellitus, asthma, chronic obstructive pulmonary disease, constipation, cold, cough, and allergy, diarrhoes, emesis pain and headache insomnia, obesity, acne, contraception otitis.
- Management of insect stings/bites, toxic shock syndrome and tampons.
- Care of the eye/teeth
- Cancer, fever, pleuropulmonary and bronchial infections
- Urinary tract infections and PID, STI, meningitis
- Burns, fungal Infections
- Hepatitis; malaria and other parasitic diseases.

**PRR 512 LITERATURE EVALUATION AND COMMUNICATION SKILL;  
PHARMACISTS IN PRIMARY HEALTH CARE (PHC) (2 Credits;  
30hrs)**

### **COURSE DESCRIPTION**

This course introduces the students to the use of drug literature in the promotion of safe, effective and rational drug therapy. It helps the students to develop the skill for communicating effectively with other healthcare professionals, the patients and patient relatives.

### **COURSE OUTLINE;**

1. Drug information retrieval and literature evaluation
  - A study of the methods and resources available for the rapid and efficient handling of facture drug information and its effects utilization in the promotion of safe effective and rational drug therapy.
  - Resources needed for the establishment of a drug information centre and the provision of drug information service.
  - Development of hospital formulary system and essential drug information Bulletin.
  - Health information: electronic medical records: internet and pharmacy practice evaluation of information from the internet, internet prescriptions.
2. Pharmacists clinical roles
  - In and out patient dispensing
  - Organization of patient medical charts and medication profiles.
  - Medication dosages, posology and administrate
  - Monitoring of drug interaction and adverse drug reactions.
  - patient counseling.
3. Communication Skills
  - Appearance as a mode of Communication
  - The various styles of listening and response
  - Applicant of the various styles of listening and response to patient interview and education (pharmacy patient relationship)
  - Factor affecting compliance with drug region
  - Pharmacists relationship with other health care professional/the community.

### **THE PHARMACISTS IN PHC**

#### **COURSE DESCRIPTION**

This course is aimed at preparing the students for rendering health service to the rural populace.

#### **OBJECTIVE**

- Offer health maintenance care (preventive medicine) involving the education of patients on the prevention of communicable diseases surveillance on patients immunization status rural pharmacy service as extension work.
- Offer acute primary care to patients who episodic self limiting diseases.
- Offer chronic primary care to patients who have chronic diseases or are utilizing chronic,
- Medication therapy after diagnosis and stabilization by a physician.
- Educate the patients on oral rehydration therapy and personal hygiene
- Use of traditional therapeutic agents and herbal phytotherapy in management of patients.

#### **COURSE OUTLINE**

- Overview of epidemiological methods
- Concept of PHC

- Drug use and Management in PHC
- Drug use in Infertility and family planning management
- Nutrition-Management/Prevention of Malnutrition
- Role of Pharmaceutical care in promoting public health

## **PCN 521 CLINICAL PHARMACY CLERKSHIP (3 Credits; 135hrs)**

### **COURSE DESCRIPTION**

The clinical pharmacy clerkship consists of the pharmacy based experience (externship) and the clinical clerkship (Medical Experiences). The pharmacy based practice involves scrutinizing prescription for completeness dispensing and patient counseling under the supervision of a Pharmacists.

The clinical clerkship involves the posting of students to the hospital wards to form an integral part of the medical team.

Emphasis is placed on the therapeutic monitoring of patients, rational drug selection and dosing, monitoring for interactions and adverse drug reactions, taking of medication histories, patient counseling and education.

### **COURSE OUTLINE**

Pharmacy supervised experiences (Externship)

- (a) Dispensing: in and out patients
  - Scrutinizing of prescriptions and dispensing
  - Medication dosage and instruction mode of administration
  - Compatibility of drug combinations
  - Alternative to prescribed drugs
- (b) Patients Counseling/Education
  - Patients drug history and medication profile
  - Patient medication instruction cards
  - Patient compliance.
- (c) Hospital/Community Pharmacy Environment
  - Location, Arrangement
  - Floor space, Equipment
  - Organizations etc.
- (d) Drug Information centre/Service

### **CLINICAL CLERKSHIP**

This involves wards rotations conferences and case studies. It is done within an affiliated University Teaching Hospital or Community Health Sector.

Areas to be covered include psychiatry, internal medicine paediatrics, gynaecology/obstetrics, surgery through the sites. Each student will make an oral case presentation and submit/defend

two individual report and one group written report after the rotation. Written examination may be required or remedial grounds.

**PCN 522 CLINICAL PHARMACOKINETICS (2Credits; 30hrs)**

This is a course which is aimed at making the students use his knowledge of biopharmaceutics and pharmacokinetics in the design of dosage regimen for effective and rational drug therapy.

**COURSE OUTLINE**

Specific dosage prescribing requirements/guidelines under certain conditions:

- (a) Prescribing for the paediatrics/geriatrics
- (b) Prescribing for renal and liver impaired patients
- (c) Prescribing for pregnant/lactating mother

Pharmacokinetics in disease states modifying body perfusion

Pharmacokinetics in disease states modifying protein binding

Considerations of the clinical pharmacokinetics of selected drugs used in various disease states.

**PJJ 501 PROJECT (4 Credits; 180hrs)**

This course is a project assigned to the students under the supervision of one or more Academic staff. It must be defended before an external (assessor) examiner and the supervision.



## DEPARTMENT OF PHARMACOLOGY & TOXICOLOGY

### A. COURSE SCHEDULE

#### 300 Level

##### 1st Semester

- PCO312 General Principles of Pharmacology (3 Credits, 45hrs)  
PCO 313 Autonomic/Neuro-Pharmacology (3 Credits, 45hrs)  
PCO 301 Practical Pharmacology (3 Credits, 45hrs)

##### 2nd Semester

- PCO 324 Systemic Pharmacology (3 Credits, 45hrs)  
PCO 301 Practical Pharmacology (3 Credits, 45hrs)

#### 400 Level

##### 1st Semester

- PCO 411 Practical Pharmacology II (1 Credits, 45hrs)  
PCO 412 Central Nervous System Pharmacology (3 Credits, 45hrs)  
PCO 413 Chemotherapy (2 Credits, 45hrs)

#### 500 Level

##### 1st Semester

- PCO 512 Endocrine/Autocoid Pharmacology (3 Credits, 45hrs)  
PCO 513 Hemopoietic/Biochemical Pharmacology (2Credits, 45hrs)

##### 2nd Semester

- PIX 522 Toxicology (2 Credits, 45hrs)  
PPJ 501 Project (4 Credits, 45hrs)

### B. DESCRIPTION OF COURSES

#### **PCO 312 General Principle of Pharmacology 3 Credits, 45hrs.**

Definition of Pharmacology, scope and sub-divisions, of Pharmacology, methods and measurement in Pharmacology; drug development and evaluation; biological assays; clinical trails; measurement and evaluation of toxicity, pharmacokinetics; routes of drug administration, kinetics of drug absorption, distribution, blood-brain barrier; placenta barrier, biotransformation and elimination, Pharmacodynamics; mechanics of drug action, drug receptors, signal transduction and second messengers, selectivity of drug action, factors affecting drug action in man. Dose-response relationships, agonists, antagonists and their interactions with receptors. Drug toxicity and adverse drug reactions.

#### **PCO 313 Autonomic/Neuro-Pharmacology 3 Credits, 45hrs.**

Review of the anatomy and physiology of the autonomic and somatic nervous system; General principles of neurohumoral transmission; Cholinergic transmission; Synthesis,

storage and release of Ach; Muscarinic and nicotinic actions of Ach; Muscarinic receptor agonists and antagonists; Cholinesterases and anticholinesterases; Drugs used in myasthenia gravis; Drugs affecting autonomic ganglia; Neuromuscular blocking agents; Adrenergic Transmission; Synthesis, storage and release and inactivation of noradrenalin; Neuronal and extra-neuronal uptake mechanisms; Sympathomimetic amines, adrenergic neuron blocking drugs, drugs affecting the storage, release and disposition of neurotransmitters; Studying neurotransmitters; Nitric Oxide (NO) and Non-Adrenergic Non-Cholinergic (NANC) transmission.

**PCO 324 Systemic Pharmacology 3 Credits, 45hrs.**

**Ocular Pharmacology:** Miotics and mydriatics drugs used in glaucoma, Ophthalmological diagnostic agents; Respiratory Pharmacology; Asthma and anti-asthmatic drugs, expectorants, mucolytics and antitussives; cardiovascular Pharmacology; Hypertension and antihypertensive drugs; K<sup>+</sup> - channel modulations, anti-anginal drugs, Cardiac glycosides and other inotropic agents, anti-arrhythmic agents; Gastrointestinal pharmacology; Laxatives and purgatives, anti-diarrhoeal drugs, Oral rehydration therapy, antipeptic ulcer drugs, Spasmolytics, emetics and anti-emetics; Renal Pharmacology: Osmotic diuretics, carbonic anhydrase inhibitors, thiazides, loop diuretics, K<sup>+</sup> - Sparing diuretics. Urine pH-altering agents.

**PCO 301 Practical Pharmacology I 1 Credit, 45hrs**

- Experiment I: The influence of the route of drug administration on pharmacological response.
- Experiment II: The relationship between agonist concentration and magnitudes of drug response
- Experiment III: Introduction to bioassay methods
- Experiment IV: Experiment on rabbit jejunum
- Experiment V: The Guinea pig ileum preparation
- Experiment VI: The rat uterus preparation.
- Experiment VII: Cholinesterases and anti-Cholinesterases
- Experiment VIII: The effect of neuromuscular blocking drug on the rat phrenic nerve diaphragm preparation
- Experiment IX: Assay of antagonists.
- Experiment X: Specificity of antagonists
- Demonstration I: Finkleman Preparation.
- Demonstration II: The isolated perfuse heart (Laugen-dorff) preparation.
- Demonstration III: The study of the effect of parasympathomimetic drugs on cardiovascular system (in-vivo)
- Demonstration IV: To demonstrate adrenergic mechanisms using cat blood pressure

**PCO 411 Practical Pharmacology 1 credit, 45hrs**

- Experiment I: Determination of action of drug on sympathetic nerve function.
- Experiment II: Screening test for local anaesthetics.
- Experiment III: Analgesic testing
- Experiment IV: Evaluation of substances that modify the action of the central nervous system
- Experiment V: Action of drugs on the eye
- Experiment VI: Analysis of unknown drugs: diverse techniques.

**PCO 412 Central Nervous System Pharmacology - 3 Credits, 45hrs**

Review of the functional Organization of the CNS; Local anaesthetics, Theories of general anaesthesia, general anaesthetic agents, preanaesthetic medication; Hypnotics and Sedatives; Centrally acting muscle relaxants, Alcohol and alcohol abuse; CNS Stimulants; Drugs used in Parkinson's disease; Drugs used in other neurodegenerative diseases; Antipsychotic; Antidepressants and mood stabilizing drugs; Opioid analgesics, and antagonists; Non-Steroidal anti-inflammatory analgesics; Antiepileptic drugs.

**PCO 413 Chemotherapy 2 credits, 30hrs.**

The pharmacology of the following drugs; Sulphonamides, beta- lactam antibiotics (penicillins, cephalosporins, carbapenems, and monobactams), tetracycline(s), chloramphenicol, aminoglycosides Miscellaneous antibiotics, macrolides, polymyxins, lincosamides, fluroquinolones, metronidazole, bacitracin. Chemotherapy of tuberculosis and leprosy; Antifungal agents; Chemotherapy of protozoan parasitic infection; antimalarials, antiamoebics, drugs used in trichomoniasis, gardiasis, trypanosomiasis, leishmaniasis; Anthelmintics; Antiviral agents; HIV/AIDS treatment; Antineoplastic drugs.

**PCO 512 Endocrine/Autocoid Pharmacology - 3 Credits, 45hrs**

Thyroid and antithyroid drugs; Drugs used in Diabetes, insulin, oral hypoglycaemic agents and glucagons; Corticosteroids; Pituitary hormones; Sex hormones; Anabolic Steroids, Contraceptives; Ergot alkaloids; Uterine relaxants; Histamines, Histamine receptor antagonists; 5-hydroxytryptamine and 5-HT antagonists; The kinins; Prostaglandins and leukotrienes (SRSA) Renin- angiotensin System; Substance P.

**PCO 513 Haemopoietic/Biochemical Pharmacology - 3 Credits, 45hrs.**

Drugs in iron deficiency anaemia; Vitamins and other therapeutic nutritional supplements; Cholesterol metabolism and hypolipidemic drugs; pharmacogenetics and idiosyncratic reactions; Drug metabolism and drug metabolizing enzyme systems: Phase I and Phase II reactions, Hepatic and extra- hepatic metabolism. Induction and inhibition of drug metabolism; Anticoagulant; Fibrinolytics; Antifibrinolytics and antithrombotics.

**PTX 522 Toxicology 2 Credits, 30hrs**

Definition of toxicology and toxicant; Management of acute drug poisoning, plant, bacterial and animal poisoning; solvent poisoning; Pesticides, herbicides; Radiation toxicology; Air-born poisoning; Heavy metals and chelating agents; Food additives; Toxicity of drug-drug interactions.

**PPJ 501 Project 4 Credits, 180hrs.**

This course is a project assigned to the student under the supervision of one or more academic staff.

**STAFF DISPOSITION  
DEPARTMENT OF PHARMACEUTICS & PHARMACEUTICAL  
TECHNOLOGY**

S/N	NAMES (SURNAME FIRST)	AREA OF SPECIALIZATION	QUALIFICATION	POSITION/ STATUS	DATE OF APPOINTMENT	FULL- TIME/ ASSOCIATE LECTURER
1	ESEZOBO, S. (PROF)	Power & Tableting Technology	B.Pharm. (Hons) 1970 (Bradford, M.Sc. 1972, Ph.D 1976 (London) MRPharm. S. (GB) 1971; MPSN 1979	Professor & HOD	3 <sup>rd</sup> August 2004	Full-Time
2.	ONANGA, I.C. (DR)	Liposome's Technology/ Drug Delivery System Optimization	B.Pharm (Hons) Ife, 1972, M.Sc (Wisconsin) 1976 Ph.D. (Strathelyde) 1981, MPSN	Reader	1 <sup>st</sup> November 2010	Full-time
3	OBARISIAGBON , J.A	Physical Pharmaceutics	B.Pharm (Hons) 1981, MBA, 1994, PGD Dip. Comp. Science 1994 (Benin); MSc 2013 MPSN 1982	Lecturer II	1 <sup>st</sup> September 2005	Full-Time
4.	NNABUIKE, N.D.	Pharmaceutical Technology	B.Pharm. (Hons) 1996 (UNN), M.Sc Pharm. Tech. 2002 (Lagos) MPSN	Lecturer II	16 <sup>th</sup> January 2008	Full-Time
5.	ONWU, E.C.J		Dip. Sci. Lab. Inter. 1995, Final Dip. Sci. Lab. 2000	Science Laboratory Technologi st II	1 <sup>st</sup> September 2005	Full-Time
6.	SOLOLA, S.O.A			Technologi st I		Full-Time
7.	OSAYANDE, I.			Technologi st II		Full-Time

<b>Summary</b>	-	No. of Full-Time	=	9
	-	No. of Part-Time	=	Nil
	-	No. of Females	=	1
	-	No. with PhD	=	3
	-	No. of Pharmacist	=	5



**DEPARTMENT OF PHARMACEUTICAL CHEMISTRY**

S/N	NAMES (SURNAME FIRST)	AREA OF SPECIALIZATION	QUALIFICATION	POSITION/STATUS	DATE OF APPOINTMENT	FULL-TIME/ASSOCIATE LECTURER
1	OKE, J.M. (PROF)	Medical Chemistry	M.Sc. Zapororjie (Ukraine) 1978, Ph.d Kharkov (Ukraine 1982), MPSN	Professor & Dean	4 <sup>th</sup> October 2005	Full-Time
2.	ADELUSI, S.A. (PROF.)	Pharmaceutical Analysis	B.Sc (Ibadan) 1973, M.Sc. (Stratheldy) 1977, Ph.D 2006 (Benin), MPSN	Visiting Professor	1 <sup>st</sup> February 2009	Associate Lecturer (Part-Time)
3	UME, O. (MISS)	Pharmaceutical Analysis	B.Sc. Biochemistry (UNN), M.Sc Pharm. Chemistry (ABU)	Lecturer II	1 <sup>st</sup> June 2011	Full-Time
4.	ADENIYI-AKEE, M.A.	Pharmaceutical Analysis	B.Sc. 1995 (Ibadan), M.Sc 2011 (Ibadan)	Assistant Lecturer	September 2010	Full-Time
5.	AHUNUN, I.F. (MISS)	Pharmaceutical Analysis	B.Sc. Chemistry (Benin) 2006, M.Sc. Form, Sci 2010 (Greenwich London) Dip. Desktop Pub.	Assistant Lecturer	5 <sup>th</sup> January 2015	Full-Time
6.	AP		(1968), c.&g Advanced (1979)	Technologist	2005	Full-Time
7.	CHUKWU, A.B.		OND 1978, HND 1984, MNLST 1990, PGD 1999	Assistant Chief Technologist	1 <sup>st</sup> September 2001	Full-Time
8	OSIGBEMHE, A.J.		WAEC	Laboratory Assistant	1 <sup>st</sup> February, 2009	Full-Time

<b>Summary</b>	-	No. of Full-Time	=	8
	-	No. of Part-Time	=	2
	-	No. of Females	=	3
	-	No. with PhD	=	3
	-	No. of Pharmacist	=	3

### DEPARTMENT OF PHARMACEUTICS & TOXICOLOGY

S/N	NAMES (SURNAME FIRST)	AREA OF SPECIALIZATION	QUALIFICATION	POSITION/STATUS	DATE OF APPOINTMENT	FULL-TIME/ASSOCIATE LECTURER
1	OZOLUA. R.I. (PROF)	Cardiovascular Pharmacology & Toxicology	B.Pharm. (Hons) 1990, MSc 1997, PhD 2003 (Benin) MPSN	Visiting Reader	3 <sup>rd</sup> September 2007	Associate Lecturer
2.	OKPO,	Ethnopharmacology	B.Sc 1990, M.Sc. (Lagos	Senior Lecturer	3 <sup>rd</sup> September	Associate
3	OSIFO, N.G.O.	Pharmacology	B.Sc. MBBS (Benin) MSc, Ph.D. Pharmacology	Professor	13 <sup>th</sup> April 2014	Full-Time
4.	NWANZE, J.C. (DR)		MBBS (Benin), M.Sc. Pharmacology, Ph.D	Senior Lecturer	13 <sup>th</sup> April 2004	Full-Time
5.	CHING, FIDELIS		B.Sc. 1992, M.Sc. 1996 (Calabar)	Visiting Reader	24 <sup>th</sup> September 2010	Associate Lecturer
6.	IGBE IGHODARO (DR)		B.Pharm (Hons) 1996, M.Sc. 2005 (Benin), MPSN	Lecturer I	24 <sup>th</sup> September 2010	Associate Lecturer
7.	AGHAHOWA, S.		B.Pharm (Hons) 1996, M.Sc. 2005 (Benin) MPSN	Lecturer I	24 <sup>th</sup> September 2010	Associate Lecturer
8.	ANAKA, O.N.		B.Pharm (Hons.) M.Sc. (Benin) MPSN	Lecturer I	22 <sup>nd</sup> November 2010	Full-Time
9.	IMAFIDON, P.G.A			Technologist I		Full-Time
10.	AKINGBOYE, Y.A.			Technologist I		Full-Time
11.	ALIYU, AWUYO		OND, Sci Lab. Tech. 1972, Comp. Sci.	Assistant Chief Technologist	1 <sup>st</sup> July 2002	Full-Time

			1977, Advanced Dip. Comp. Sci. 2002			
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<b>Summary</b>	-	No. of Full-Time	=	6
	-	No. of Part-Time	=	5
	-	No. of Females	=	1
	-	No. with PhD	=	7
	-	No. of Pharmacist	=	5



**DEPARTMENT OF PHARMACEUTICAL MICROBIOLOGY**

S/ N	NAMES (SURNAME FIRST)	AREA OF SPECIALIZATI ON	QUALIFICATI ON	POSITION/ STATUS	DATE OF APPOINTME NT	FULL- TIME/ ASSOCIAT E LECTURE R
1	AGBA, M.I. (PROF.)	Medical Microbiology/ Immunology	B.Sc. Microbiology 1973 (UNN), M.Sc. Med. Micro 1979, Ph.D. Micro/ Immunology 1988 (Port Harcourt)	Professor & HOD	1 <sup>st</sup> September 2005	Full-Time
2.	OBASEKI- EBOR, E.G. (PROF.)	Molecular Biology & Bacterial Genetics	B.Pharm. (Hons.) 1975 (Benin), Ph.D 1980 (Edinburgh)	Visiting Professor	1 <sup>st</sup> November 2010	Full-time
3	ARIMAH, O.B.D. (DR)	Antimicrobial Chemotherapy	B.Sc. 1997 (Ibadan), M.Sc. Pharm. Micro 2000 (Ibadan)	Lecturer I	1 <sup>st</sup> September 2005	Full-Time
4.	EWE, C. DR. (MRS)	Bacterial Resistance in relation to Public Health	B.Sc. Microbiology 1997 M.Sc. Pharm. Micro 2004 (Ibadan) Ph.D. Pharm. Micro 2014 (Ibadan)	Lecturer I	1 <sup>st</sup> November 2010	Full-Time
5.	OLORUNNIP A, T.A.	Antibiotic Resistance & Antimicrobial Agents	B.Sc. Microbiology, M.Sc. Pharm Micro.	Assistant Lecturer	April 2013	Full-Time
6.	OLADEIDE, B.H.	Medical Microbiology	AIMLS (with specialty inn Medical	Senior Laboratory Technologi	1 <sup>st</sup> September 2005	Full-Time

			Microbiology)	st		
7.	OSUNLOWO, P.O.		ND Sci. Lab. Tech. 2006, HND, Microbiology 2009, AMISLT	Technologi st	1 <sup>st</sup> April 2011	Full-Time
8.	EDAFAE ARUSI		WAEC	Lab. Assistant	19 <sup>th</sup> November 2010	Full-Time

<b>Summary</b>	-	No. of Full-Time	=	7
	-	No. of Part-Time	=	5
	-	No. of Females	=	1
	-	No. with PhD	=	7
	-	No. of Pharmacist	=	5

**DEPARTMENT OF CLINICAL PHARMACY & PHARMACY PRACTICE**

S/ N	NAMES (SURNAME FIRST)	AREA OF SPECIALIZATION	QUALIFICATION	POSITION/ STATUS	DATE OF APPOINTMENT	FULL- TIME/ ASSOCIATE LECTURER
1	OSEJI, F.O. (DR)	Clinical Pharmacy and Pharmacy Practice	B.Pharm (Hons) 1980, MBA 1998, Pharm. D. 2005 (Benin), M.Pharm 2014, MPSN	Lecturer I & Ag. HOD	1 <sup>st</sup> June 2007	Full-Time
2.	ENATO, E.F.O. (PROF)	Clinical Pharmacy and Pharmacy Practice	B.Pharm (Hons) 1997, M.Pharm 2000, Ph.D. 2006 (Benin) MPSN	Professor	1 <sup>st</sup> February 2009	Adjunct Lecturer (Part-Time)
3	ODILI, V.U. (DR)	Clinical Pharmacy and Pharmacy Practice	B.Pharm (Hons) 1991, M.Pharm (Benin) 2000, Ph.D. 2013, MPSN	Senior Lecturer (Sabbatical )	19 <sup>th</sup> September 2014	Full-Time
4.	SONI, J.S. (DR)	Pharmacy Practice and Pharmaceutical Care	B.Pharm. (Hons) 2006, Pharm.D 2007, M.Pharm 2014, MPCPharm 2012	Assistant Lecturer	1 <sup>st</sup> August 2014	Adjunct Lecturer (Part-Time)
5.	ISIBOGE, P.D. (DR)	Clinical Pharmacy/ Drug, Information and Pharmacovigilanc e	B.Sc. Pharm. 1979, M.Pharm (Clinical) 2002, Pharm. D. 2006	Lecturer I	October 2014	Full-Time

<b>Summary</b>	-	No. of Full-Time	=	3
	-	No. of Part-Time	=	2
	-	No. of Females	=	Nil
	-	No. with PhD	=	2
	-	No. of Pharmacist	=	5



## DEPARTMENT OF PHARMACOGNOSY

S/ N	NAMES (SURNAME FIRST)	AREA OF SPECIALIZATION	QUALIFICATION	POSITION/ STATUS	DATE OF APPOINTMEN T	FULL- TIME/ ASSOCIATE LECTURER
1	OBOLADE, A.A. (PROF.)	Pharmacognosy	B.Pharm 1980 (OAU), M.Sc. 1984 (OAU), Ph.D. 1989 (Manchester) MPSN	Professor & HOD	1 <sup>st</sup> August 2015	Full-Time
2.	ADEBAYO, M.A.	Pharmacognosy	B.Sc Botany 1992 (Ibadan), M.Sc. Pharmacognosy 2000 (Ibadan)	Lecturer I	3 <sup>rd</sup> November 2008	Full-time
3	EHIAGBONARE, J.E. (PROF)	Toxonomy	HND Forestry 1971 (Ibadan), M.Sc. Botany 1995 (AAU) Ph.D. Botany 2002 (AAU)	Professor	1 <sup>st</sup> September 2015	Full-Time
4.	AJAIYEoba, E.O.	Pharmacognosy	B.Sc. Chemistry, 1981, M.Sc. Chemistry 1984, Ph.D. Synthetic & Natural Products Chem. 1994, ICCON	Professor	1 <sup>st</sup> August 2015	Full-Time
5.	FAJANA, A.	Pharmacognosy	B.Sc. Botany 1994 (UNAD), M.Sc. Pharmacognosy 2006 (Lagos)	Lecturer II	3 <sup>rd</sup> July 2010	Full-Time
6.	ADEDOKUN, O.A.	Pharmacognosy	B.Sc. Biochemistry 2007, M.Sc. Pharmacognosy 2015, AMISMN	Assistant Lecturer	13 <sup>th</sup> April 2015	Full-Time
7.	IKHILE, B.U.		Technician's Cert. Part I & II, Diploma in Laboratory Management	Assistant Chief Technologist	1 <sup>st</sup> September 2005	Full-Time
8.	IGHODARO, MARY	Compounding & Dispensing	Diploma in Pharmacy	Pharmacy Technician	15 <sup>th</sup> August 2012	Full-Time

		Compounding of Drugs	Technician (1983)			
9.	OMOFUOMWAN, F.		WAEC	Lab. Assistant	1 <sup>st</sup> February 2009	Full-Time
10.	OMOBUDE, O.		WAEC	Lab. Assistant	20 <sup>th</sup> June 2011	Full-Time

<b>Summary</b>	-	No. of Full-Time	=	10
	-	No. of Part-Time	=	Nil
	-	No. of Females	=	1
	-	No. with PhD	=	3
	-	No. of Pharmacist	=	1

### ADMINISTRATIVE STAFF

S/ N	NAMES (SURNAME FIRST)	QUALIFICATIO N	POSITION/ STATUS	DATE OF APPOINTMEN T	FULL- TIME/ ASSOCIAT E LECTURER
1	OMOREGIE, E.D. (MRS)	B.Sc. Computer Science, M.Sc. Computer Science	Assist. Registrar/Colleg e Officer	1 <sup>st</sup> September 2001	Full-Time
2.	AKPAN, O.L. (MRS.)	ND in Secretarial Admin. 50WPM Typewriting, Computer Literate Cert.	Conf. Sec. II/ Deans Secretary	10 <sup>th</sup> May 2006	Full-time
3	IKPONMWOSA, A. (MRS.)	Dip. in Computer	Secretary, Dept. of Pharm. & Pharm. Technology	10 <sup>th</sup> May 2006	Full-Time
4.	AIGBOKHAODE , J.O. (MR)	HND Business Admin. 1994, PGD Business Admin 1997, 50/100 WPM Typing and Shorthand, Computer Literate Cert.	Secretary, Dept. of Pharm. Chemistry	4 <sup>th</sup> January 2015	Full-Time
5.	ATAMAH, R. (MRS)	SSCE, Typist II	Secretary, Dept. of Pharmacology and Toxicology	10 <sup>th</sup> May 2006	Full-Time
6.	ABOLARI, E. (MRS)	NCE, ENG/SOS, 50 WPM Typewriting	Secretary, Dept. of Pharmaceutical Microbiology	11 <sup>th</sup> May 2006	Full-Time
7.	CACOS T.				
8.	OME, E.H. (MISS)	HND, Office Tech. Mgt.	Secretary, Dept. of Clinical Pharmacy and Pharm. Practice	May 2015	Full-Time
9.	ADEWARA, F.O. (MISS)	HND, Office Tech. Mgt.	Office Assistant	November 2014	Full-Time
10.	IRENE, R. (MRS)	WAEC	Cleaner	1 <sup>st</sup> June 2001	Full-Time

## OBA EREDIAUWA COLLEGE OF LAW

### STAFF LIST

#### A. Dean's Office

**Prof. Rasheed J. Ijaodola**  
*LL.B, LL.M Ph.D*

- Dean

**Mr. Osere C. Osunbor**  
.....

- College Officer

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.....

- College Secretary

**Mrs. Esquire O. Evelyn**

- Cleaner

**Mrs. Irene Beauty**

- Cleaner

#### B. Sub-Dean

**Dr. Anya K. Anya**  
*LLB, LLM, Ph.D, BL*

- Sub-Dean

#### C. Department of Public/Jurisdiction/Jurisprudence & International Law

**Dr. D. U. Ibe**  
*LL.B (Uniben), LL.M (Uniben), BL, Ph.D*

- Senior Lecturer/HOD

**Dr. A. K. Anya**  
*LL.B (Uniben), LL.M (Unilag), BL, Ph.D*

- Senior Lecturer

**Dr. C. E. Ochem**  
*LL.B, LL.M, BL, Ph.D*

- Senior Lecturer

#### D. Department of Business Law

**Mr. J. Nwazi**  
*LL.B (NAU), LL.M, BL*

- Senior Lecturer/Ag. HOD

**Prof. A. I. Onyekagbu**  
*LL.B (UNN), LL.M (AAU), LL.M (LASU),  
BL, Ph.D*

- Professor

**Dr. Nat Ofo**  
*LL.B (ABSU), LL.M (Lagos), BL, Ph.D*

- Senior Lecturer

**Dr. B. M. O. Oseghale**  
*LL.B, LL.M, BL, PhD*

- Senior Lecturer



<b>Dr. Rita Okpeahor</b> <i>LLB, LLM, PhD, BL</i>	-	Senior Lecturer
<b>E. Department of Private and Property Law</b>		
<b>Dr. O. G. Izevbuwa</b> <i>LL.B (Uniben), LL.M (Uniben), BL, Ph.D</i>	-	Reader/HOD
<b>Prof. C. U. Emaviwe</b> <i>FCIArb</i> <i>LL.B (Ife), LL.M (AAU), BL, Ph.D.</i>	-	Professor
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<b>Mrs. Opeyemi Bayode</b> <i>LLB, LLM, BL</i>	-	Lecturer II
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### Section I: Philosophy and Objectives of the LL.B Programme

The Law Programme is tailored after the National University Commission's guidelines which emphasize the need for Law graduates to be knowledgeable in other fields of human endeavour, such as Psychology, Economics, Philosophy, etc., so as to fully appreciate analyze and understand the important role that law plays in the Nigerian Society in particular and the entire humanity in general.

### Section II: Admission Requirements

The College operates the Course Union System and its admission requirements are:

Course	Direct Entry	GCE/SSCE Subjects	JAMB Subjects
LL.B	At least two (2) "A" Level Passes in Arts & Social Science subjects. O' Level Credit passes in	Credit passes in English Language, English Literature plus three (3) others	English Language & three (3) other subjects in Art or Social Sciences.

English Language &  
English Literature are  
Compulsory.

- a. A candidate who wished to transfer from another University must possess the minimum entry requirement for Admission to the College of Law. Application Forms are obtainable from the Admission Office of the University. Application for transfer to the College will be treated on its own merit.
- b. Applications for course leading to first degree (i.e. in respect of “a” above) must be on the proscribed forms obtained from the Registrar, Joint Admissions and Matriculation Board, Abuja.
- c. In addition to A and C above, suitable candidates will be required to submit themselves for a written test, followed by an oral interview.
- d. Upon admission, students shall pay to the University all fees prescribed by the University, and observe all such regulations as are related to registration and matriculation.

### **Section III: Matriculation and Registration**

#### **(a) Matriculation**

All new students are formally admitted to the University at Matriculation. At this ceremony, new students must take the Matriculation Oath and sign the Register of Matriculated Students of the University. Nobody may claim to be a student of this University until he/she had duly completed all matriculation formalities.

#### **(b) Registration C/WINDOWS**

- i. All students shall register for their programmes of study in the university at the beginning of each academic year in accordance with the rules made from time to time by the University.
- ii. A student shall be deemed not to have registered for his/her programme of study if three weeks after the beginning of the session he/she had not completed his/her registration. Only in most unusual circumstances and with the special permission of the Registrar or his Representative, will any student be permitted to register after the appointed date. Under no circumstance shall any student other than occasional or postgraduate student register five weeks after the beginning of the academic year.

A fee will be charged for late registration. The procedure for registration shall include the following:

- (i) Payment of fees, dues and other charges.
- (ii) Careful entry of all information required to be filled in the Registration Form
- (iii) Obtaining thereon, the signature of all appropriate University authorities.

- (iv) Returning the completed Registration Forms to their respective College Officers not later than the closing date appointed for registration.

**(c) Changes of Courses/Programmes of Study**

At registration, students must first seek the advice of their Head of Departments regarding the choice of course/programmes of study in order to avoid frequent and unnecessary changes after registration. Students, who have genuine reason to change courses after the initial registration at the beginning of the session, must do so in the prescribed manner not later than two weeks after the last day of registration. For fresh students, no change of courses/programmes of study may be permitted to add and or to delete course within the first two weeks of the second semester. “Add and Delete Form may be obtained from the Academic Office after payment of the prescribed fee.

**Section IV: Scheme of Study**

- (a) A five year programme of courses shall be provided leading to the Degree of Bachelor of Law, to be denoted by the letter LL.B., which may be awarded with Honours or a pass Degree save for direct entry students who shall undergo four years programme of courses.
- (b) Instructions in the College Board shall be by courses and students will be required to take such an approved combination of courses as the Senate may, on the recommendations of the College Board from time to time determine.
- (c) Tutorial classes will be conducted in all courses, the attendance of which is defined as one lecture contact per week. This shall be fashioned in line with discussion groups in line with what operates in the Law School including the use of e-mails to forward teaching materials to students.
- (d) Courses shall be evaluated in terms of course units. One course unit shall be defined as one lecture per week.
- (e) A student shall be allowed to write his/her examination if he/she has at least 75% (seventy-five percent) class attendance during the semester.
- (f) There shall be five levels of courses numbered.

**111 – 199**

**211 – 299**

**311 – 399**

**411 – 499**

**511 – 599**

Course numbers shall be prefixed by a three character programme subject/department code. Determination of the class of Degree shall be based on performance at all levels.

**(g) The following Terminologies shall be used by the College:**

- i. **Compulsory:** Course specified by the College which a student must take and pass.
- ii. **Required:** A course specified by the Department which a student must take but not necessarily pass. Where there is a group of such courses, the Department may specify the minimum number of units to be passed.

- iii. **Continuous Assessment:** Shall be regarded as part of course examinations, but marks scored through Continuous Assessment shall not constitute more than 30% (thirty percent) of the full marks of the course.
- iv. The approved period of study for the award of the Degree shall not be less than 10 Semesters for JME Students and 8 Semesters of Direct Entry Students.
- v. All courses taught during each semester shall be examined at the end of the semester and candidates will be credited with the numbers of course units assigned to the course which they have passed.
- vi. In addition, the total number of units taken along with the grades obtained in each course shall also be recorded for the purpose of computing the Cumulative Grade Point Average (CGPA).
- vii. The Weighted Grade Points of all courses taken shall be used for the determination of the class of degree.
- viii. Students shall normally be required to register for prescribed minimum number of units on the recommendation of the College Board.
- ix. The minimum number of course units for the award of a degree shall be 172 for the four year programme and 200 for the five year degree programme.
- x. The degree shall be awarded with honours provided a student obtains a Cumulative Point Average that is not less than 1.6 and satisfies other honours required.
- xi. For the award of a pass degree, a student must obtain the minimum number of units specified in (ix) above, and also pass the compulsory course specified by the Department.
- xii. Grades to be used for students who completed the workload of a course by the end of the semester are:

(a) Letter Grade	Grade Points	Marks(%)
A	5	70 – 100
B	4	60 – 69
C	3	50 – 59
D	2	45 – 49
F	0	44 – 0

The Cumulative Grade Point Average (CGPA) and various classes of degrees shall be based on the numerical points tabulated below:

(b) Cumulative Grade Point Average	Class of Degree
4.50 – 5.00	First Class Honours
3.50 – 4.49	Second Class Honours (Upper Division)
2.40 – 3.49	Second Class Honours (Lower Division)
1.50 – 2.39	Third Class
1.00 – 1.49	Pass

- xiii. In order to obtain the Cumulative Grade Point Average of a candidate, the course unit multiplies the appropriate index (Grade Point) assigned to each range of numerical mark and the product is added up to give the total

weighted grade point. The total is divided by the total number of course units taken (pass or fail).

- xiv. A student who had taken more than one academic year in excess of the approved minimum period of study to complete a degree programme shall not normally be eligible for an honours classified.
- xv. The maximum period for an Honours Degree shall be 10 semesters for a four-year programme and 12 semesters for a five-year degree programme.
- xvi. A student shall normally be required to withdraw from the College if he/she fails to achieve the minimum standard, which the Senate on the recommendation of the College Board may from time to time prescribe.
- xvii. The list of successful candidate for the degree shall be published with the following classifications:
  - First Class Honours
  - Second Class Honour (Upper and Lower Divisions)
  - Third Class Honours
  - Pass
- xviii. A student who had not been accorded with total minimum of units specified by the College Board at the end of each year of registration shall be asked to withdraw from the College.
- xix. **Examinations.**

The following procedures and guidelines are operatives:

- a) The time allowed for written examination shall normally be on the basis of not less than 1 hour for one unit course. In any case, the time allowed for any one theory papers shall not exceed three hours.
- b) Not more than one course shall be examined in one paper.
- c) Other forms of examination may include practical examinations, inspection and assessment of practical work, note books, project works, special reports and the forms of the examinations must be specified by the Department concerned and approved by the Senate on the recommendation of the College Board.
- d) There shall be a panel of Examiners for a set of course at each level. Each panel shall consist of not less than 3 Internal Examiners, one of whom shall be designated as Chief Examiner. The panel shall be responsible for each set of courses and shall set and moderate the questions and mark the answer scripts. The panel shall jointly sign the draft question papers and the examination results before these are submitted to the Examination Officer. Where a panel consists of more than two members, the absence of a member shall not effect the validity of a draft question paper or an examination result.
- e) The External Examiner shall participate in the conduct of the 500 level examinations, and the determination in the conduct of the overall results in accordance with general regulations relating to the duties of External Examiner.
- f) No candidate shall be permitted to proceed to the next successive level if such candidate obtained less than 1.00 GPA at the end of any academic session.

**xx. Grading**

- a) All courses shall be graded out of a maximum of 100 marks and all marks shall be returned in numerical scores.
- b) All candidates who obtain less than 45 marks shall be deemed to have failed the course.
- c) Direct Entry and Transfer candidate must register for, and pass the Law course in year 1, i.e. Legal Methods I and II (JIL 111 and JIL 121) in addition to the courses required in year II (i.e. 200 level).

**xxi. Course Identification**

Every course taught by the College of Law is identified by a three letter Code as indicated below, followed by the course number.

**xxii. Course Code**

Research Project LAW

(Common to all the Departments)

Courses taught by all the Departments of Public and International Law – PUL/JIL

Courses taught by the Department of Private and Business Law – PPL/BUL

**xxiii. University Requirement Course (GST)**

- a) A University requirement course is a course which must be registered for and passed before the degree is awarded. The grade obtained in the course is recorded for the purpose of computing the Cumulative Grade Point Average (CGPA).
- b) All students shall register and pass 9 units from the General Studies Programme courses including the Use of English (GST 111) and the followings:
  - GST 112 - Nigeria History and Culture (2 units)
  - GST 121 - Use of English (2 units)
  - GST 122 - Science for Development (2 units)
  - GST 123 - Introduction to Computer (2 units)
- c) Examinations in GST 111 and GST 112 are usually taken in the first semester, while examinations in GST 121, GST 122 and GST 123 are usually written in the second semester.
- d) No student is permitted to register for more than 3 GST courses in one session and registration takes place at the beginning of each session.

**xxiv. Exemption from GST Courses:**

- a) A student may be exempted from any course in respect of GST requirement after an examination of his/her Transcript or Student Academic Record.
- b) A student desiring to be exempted from course under this regulation must normally apply to the College Board for exemption.

**xxv. Withdrawal from the University**

**a) 100 Level:**

At the end of the first year, student with CGPA of less than 1.0 and who had passed less than 15 units should be asked to withdraw from the University.

**b) 200 Level:**

At the end of the second year, a student who had passed less than 30 units (cumulative) shall be asked to withdraw from the University.

**c) 300 Level:**

At the end of the third year, a student who had passed less than 45 units (cumulative) should be asked to withdraw from the University.

**Section V: College Requirement for LL.B Degree**

- 1) Any 100 levels student or a fresh 200 level student who scores below an average of forty-five (45) percent in his or her core courses at the end of the second semester examination shall be asked to withdraw from the College.
- 2) Any student in the College who fails more than eight (8) courses or has a carry-over of the same number of Courses at the end of the second semester examination shall be asked to repeat the session in question.

**Section VI: Curriculum**

The following Courses shall be offered:

**100 Level - First Semester**

<b>Code</b>	<b>Course Title</b>	<b>Units</b>	<b>Remarks</b>
JIL 111*	Legal Method I	3	Compulsory
PHL 111	Introduction to Logic I	3	Compulsory
ENG 114	Introduction to Prose Fiction I	3	Compulsory
ECO 111	Principles of Economics I	3	Compulsory
POL 111	Introduction to Political Science I	3	Compulsory
SOC 111	Introduction to Sociology I	3	Compulsory
GST 111	Use of English I	2	Compulsory
GST 112	Nigerian History & Culture I	2	Compulsory
	<b>Total</b>	<b>22</b>	

**100 Level - Second Semester**

<b>Code</b>	<b>Course Title</b>	<b>Units</b>	<b>Remarks</b>
JIL 121*	Legal Method II	3	Compulsory
PHL 121	Introduction to Logic II	3	Compulsory
ENG 124	Introduction to Drama	3	Compulsory
ECO 121	Principles of Economics II	3	Compulsory
PSY 121	Introduction to Psychology	3	Compulsory
GST 121	Use of English II	1	Compulsory
GST 122	Science of Development	2	Compulsory

GST 123	Introduction to Computer	2	Compulsory
<b>Total</b>		<b>21</b>	

<b>200 Level - First Semester</b>			
<b>Code</b>	<b>Course Title</b>	<b>Units</b>	<b>Remarks</b>
PUL 211	Nigerian Legal System I	4	Compulsory
PUL 212	Constitutional Law I	4	Compulsory
BUL 211	Law of Contract I	4	Compulsory
JIL 111*	Legal Method I	3	Compulsory
GST 111*	Use of English I	2	Compulsory
GST 112*	Nigerian History & Culture I	2	Compulsory
<b>Total</b>		<b>19</b>	

**Note:** Courses asterisked are to be offered by Direct Entry Students only.

A. Law Elective Courses

<b>Code</b>	<b>Course Title</b>	<b>Unit</b>	<b>Remark</b>
PUL 213	Human Rights Law	4	Elective
PPL 211	Labour Law	4	Elective

B. Non-Law Elective Courses

<b>Code</b>	<b>Course Title</b>	<b>Unit</b>	<b>Remark</b>
PSY 211	Social Psychology	3	Elective
POL 211	Introduction to Nigerian Govt. II	3	Elective

<b>200 Level - Second Semester</b>			
<b>Code</b>	<b>Course Title</b>	<b>Units</b>	<b>Remarks</b>
PUL 221	Nigerian Legal System II	4	Compulsory
PUL 222	Constitutional Law II	4	Compulsory
BUL 221	Law of Contract II	4	Compulsory
JIL 121*	Legal Method II	3	Compulsory
GST 121*	Use of English II	2	Compulsory
GST 122*	Science of Development	2	Compulsory
<b>Total</b>		<b>19</b>	

**Note:** Courses asterisked are to be offered by Direct Entry Students only.

A. Non-Law Elective Courses

<b>Code</b>	<b>Course Title</b>	<b>Unit</b>	<b>Remark</b>
PSY 221	Social Psychology II	3	Elective
POL 221	Nigerian Govt. & Politics II	3	Elective

*Note: All students in the 200 level class only are required to choose one course each from A & B above. Moreover, Direct Entry Students should be encouraged to apply for a waiver in the two GST courses in both semester, in order to comply with the National Universities Commission Maximum Credit Units for any semester.*



<b>300 Level - First Semester</b>			
<b>Code</b>	<b>Course Title</b>	<b>Units</b>	<b>Remarks</b>
PUL 311	Criminal Law I	4	Compulsory
PPL 311	Law of Torts I	4	Compulsory
BUL 311	Commercial Law I	4	Compulsory
LAW 399	Application of Computer to Law	3	Compulsory
<b>Total</b>		<b>15</b>	

A. Law Elective Courses

<b>Code</b>	<b>Course Title</b>	<b>Unit</b>	<b>Remark</b>
BUL 322	Law of Banking I	4	Elective
PPL 312	Family Law I	4	Elective

B. Non-Law Elective Courses

<b>Code</b>	<b>Course Title</b>	<b>Unit</b>	<b>Remark</b>
SOC 214	Criminology & Penology	3	Elective

<b>300 Level - Second Semester</b>			
<b>Code</b>	<b>Course Title</b>	<b>Units</b>	<b>Remarks</b>
PUL 323	Criminal Law II	4	Compulsory
PPL 321	Law of Torts	4	Compulsory
BUL 321	Commercial Law II	4	Compulsory
<b>Total</b>		<b>12</b>	

A. Law Elective Courses

<b>Code</b>	<b>Course Title</b>	<b>Unit</b>	<b>Remark</b>
BUL 323	Law of Banking II	4	Elective
PPL 322	Family Law II	4	Elective

B. Non-Law Elective Courses

<b>Code</b>	<b>Course Title</b>	<b>Unit</b>	<b>Remark</b>
SOC 255	Criminology & Penology	3	Elective

<b>400 Level - First Semester</b>			
<b>Code</b>	<b>Course Title</b>	<b>Units</b>	<b>Remarks</b>
PPL 411	Land Law I	4	Compulsory
PPL 412	Equity & Trusts I	4	Compulsory
PUL 411	Law of Evidence I	4	Compulsory
<b>Total</b>		<b>12</b>	

A. Law Elective Courses

<b>Code</b>	<b>Course Title</b>	<b>Unit</b>	<b>Remark</b>
PUL 413	Administrative Law I	4	Elective
PUL 412	Environmental Law I	4	Elective
JIL 412	International Law	4	Elective
BUL 414	Insurance Law I	4	Elective

B. Non-Law Elective Courses

<b>Code</b>	<b>Course Title</b>	<b>Unit</b>	<b>Remark</b>
POL 314	Politics of Development & Underdevelopment	3	Elective

**400 Level - Second Semester**

<b>Code</b>	<b>Course Title</b>	<b>Units</b>	<b>Remarks</b>
PPL 421	Land Law II	4	Compulsory
PPL 422	Equity & Trusts II	4	Compulsory
PUL 421	Law of Evidence II	4	Compulsory
LAW 499	Research Methodology in Law	3	Compulsory
<b>Total</b>		<b>15</b>	

A. Law Elective Courses

<b>Code</b>	<b>Course Title</b>	<b>Unit</b>	<b>Remark</b>
PUL 423	Administrative Law II	4	Elective
PUL 422	Environmental Law II	4	Elective
JIL 422	International Law II	4	Elective
BUL 424	Insurance Law II	4	Elective

B. Non-Law Elective Courses

<b>Code</b>	<b>Course Title</b>	<b>Unit</b>	<b>Remark</b>
POL 323	Comparative Federalism	3	Elective

**500 Level - First Semester**

<b>Code</b>	<b>Course Title</b>	<b>Units</b>	<b>Remarks</b>
JIL 511	Jurisprudence & Legal Theory I	4	Compulsory
BUL 511	Law of Business Association I	4	Compulsory
PUL 518	Civil & Criminal Procedure I	4	Compulsory
LAW 599	Long Essay	4	Compulsory
<b>Total</b>		<b>16</b>	

Law Elective Courses

<b>Code</b>	<b>Course Title</b>	<b>Unit</b>	<b>Remark</b>
PUL 513	Law of Arbitration I	4	Elective
PUL 514	Oil and Gas Law I	4	Elective
PPL 512	Conveyancing I	4	Elective
PUL 515	Healthcare Law I	4	Elective

**500 Level - Second Semester**

<b>Code</b>	<b>Course Title</b>	<b>Units</b>	<b>Remarks</b>
JIL 521	Jurisprudence & Legal Theory II	4	Compulsory
BUL 521	Law of Business Association II	4	Compulsory
PUL 528	Civil & Criminal Procedure II	4	Compulsory

LAW 599	Long Essay	4	Compulsory
	<b>Total</b>	<b>16</b>	

#### Law Elective Courses

<b>Code</b>	<b>Course Title</b>	<b>Unit</b>	<b>Remark</b>
PUL 514	Law of Arbitration II	4	Elective
PUL 524	Oil and Gas Law II	4	Elective
PPL 522	Conveyancing II	4	Elective
PUL 525	Healthcare Law II	4	Elective

#### Course Description

##### **JIL 111: Legal Method (First Semester) (3 Units Compulsory)**

Law in Social Context: Nature and Functions of Law in Society; Law, Order and Justice; Law and Freedom; Law and Sovereignty.

Aspect of Law/Types of Law – Eternal Law, Divine Law, Natural Law and Human or Positive Law, Classification of Law, Common Law and Civil Law, Common Law and Equity, Public and Private Law, Civil and Criminal Law, Substantive and Procedural Law, Written and Unwritten Law, Methods of Social Control Through Law – Penal Method; Grievance, Remedial Method; Private Arranging Method; Constitutive Method, Administrative Regulatory Method; Fiscal Method; Conferral or Social Benefits Methods.

Legal Reasoning and Approach to Problems – Language of the Law; Principles; Standards and Issues in Law, Formality and Precision in the use of Language and Distinctiveness of Legal Language; Legal Rhetoric and Legal Logic; Legal reasoning and Practical reasoning; Legalism, Legal reasoning in Judicial processes-sifting of facts and law in courts ration decdendi, Legalism, Legal reasoning in Legislation – Legislative Proposals, Legislative Drafting Ambiguity, Vagueness Open Texture, Semantics of Law Legislative Process, Construction of Statutes, Types of Legislation, Codification of Laws.

##### **JIL 121: Legal Method 1 (Second Semester) (3 Units Compulsory)**

Sources of Law: Primary Source, Statutory Materials and Judicial Materials; Secondary Sources: Books and Pamphlets; Letters, Speeches; Interviews, Periodicals and Newspapers; Foreign materials.

Use of Source Materials: Law Library and Legal Research, Indexing and Identification of Library Materials, Cases and Citation of case Reports; Identification of Issues, Principles, Rules and Authoritative Elements in Books and Judicial Opinions; Analysis and note taking use of Authorities in Legal Arguments and Legal Writing.

Legal Writing: Methods and Approaches in Easy Writing; Styles of Writing, Analysis of Social and Legal Issues and Application of Legal Rules; Division of Topics into Chapters, Section and Subsections.

##### **PUL 211: Nigerian Legal System (First Semester) (4 Units Compulsory)**

The Idea of a Legal System: Nature and Functions of Law, Classification of Law, Sources' of Nigeria Law: Legislation; Judicial Precedents; Case Law; Customary Law;

Islamic Law, English Common Law, and Doctrines of Equity, Reception and Application of English Law in Nigeria.

**PUL 221: Nigerian Legal System II (First Semester) (4 Units Compulsory)**

Internal Conflicts: Different Customary Law/Islamic Law, English Law and Islamic Law, Judicial Institution, The Role of the Judiciary, The History and Development of the Courts, Types and Jurisdiction of Courts, Customary and Area Courts, Magistrate and District Courts, Courts of Record, Special Tribunal (excluding Commission of Inquiry), Judicial Personnel, Appointment and Tenure, Outline of Civil and Criminal Procedure in Nigeria, Legal Aid and Advice, The Legal Profession in Nigeria.

**PUL 212: Constitutional Law I (First Semester) (4 Units Compulsory)**

Nature, Scope and Definition of Constitutional Law, Sources of Constitutional Law, Functions of Government, Constitutional Concepts, Separation of Powers, Sovereignty in Federal and Unitary State, The Rule of Law, Ministerial Responsibility, Constitutional Conventions, Federalism, Autochthony, Supremacy of the Constitution, Classification of the Constitutions, Written and Unwritten, Rigid and Flexible, Federal and Unitary, Presidential and Parliamentary Constitutional History of Nigeria 1867 – 1914, 1914 – 1966.

Constitutional Breakdown: The Legal Consequence of the Change of Government by Extra-Constitutional means (e.g. *coup d'etat*). The Military in Government, the period between January 15, 1966 and October 1, 1979, January 1984 to date.

**PUL 222: Constitutional Law II (Second Semester) (4 Units Compulsory)**

The Military and Constitutional Making in Nigeria, Law Making by the Military, The Judiciary under the Military, the Executive under the Military, The Military and the search for Constitutional and Political Order, The Study of the Current Constitution, Supremacy of the Constitution, Citizenship, Fundamental Rights, Fundamental Objective and Directive Principles of State Policy, Creation of States and Constitutional Amendments, Legislative Powers, its meaning, Scope and Relationship with the Executive and Judicial Powers, Delegation of Legislative entries/the Doctrines of Pith and substance, Implied Powers, Repugnancy, Doctrine of Covering the Field, Impeachment Power, Judicial Power: its meaning and Scope Judicial Review of Legislation Independence of the Judiciary, Judicial Jurisdiction and Powers of the Supreme Court, Constitutional Court, Court of Appeal, Judicial Jurisdiction and Powers of the Supreme Court, Constitutional Court, Court of Appeal, Federal and State High Courts and Sharia and Customary Courts of Appeal, Judicial Control of Administration, Nature, Scope of Writs and Orders, Habeas Corpus, Mandamus, Certiorari, Prohibition, Quo Warranto, Declaration and Injunction.

Executive Power: Its meaning Scope, Powers and Functions of the President and Governors; Appointment, Legislative, Police, Public Order, Defence – Emergency, Prerogative of Mercy, Foreign Affairs – Federal and State Executive Bodies – Attorney General's Powers.

**BUL 211: Law of Contract 1 (First Semester) (4 Units Compulsory)**

Nature of Contract: Sources of Law of Contract, Concept of Bargain, Classification of Contract, Formation of Contract, Offer and Acceptance, Consideration, Intention to Create Legal Relations.

Contents of Contract; Terms, Representations, Excluding and Limiting terms and Fundamental Breach of terms. Capacity: Infants, Illiterates, Corporations, Mental Patients and Drunken persons.

**BUL 221: Law of Contract II (Second Semester) (4 Units Compulsory)**

Vitiating Elements of Contract: Mistake, Misrepresentation, Duress, Illegality and Unenforceable Contracts, Privity of Contracts, Rules and Exceptions, Discharge of Contract: by Performance, Agreement, Breach and Frustration, Remedies/Damages, Equitable Remedies in Outline only. Quantum meruit claims and quasi Contract.

**PPL 211: Labour Law or Industrial Law I (First Semester) (4 Units Elective)**

Introduction: Nature, History, Sources, Scope. The Employee at Common Law and "Workman" Under Statutes. Contract of Employment, Definition, Formation, Contents, Parties, Young Persons, Apprentices, Women, Employee's duties, Good Faith, Accountability, Notice, Summary, Dismissal, Repudiation, Remedies for Wrongful Categories of Employees. Safety at Work, Employer's duty of care, Vicarious Liability, Factories Act, Workman's Compensation. Act's Reform.

**PPL 222: Labour Law or Industrial Law II (Second Semester)  
(4 Units Elective)**

Trade Unions: Structure, Registration and Legal Status, Formation Right, Government and Administration, control of Union funds, Obligations, Civil and Criminal Liability, Collective Bargaining and Collective Agreement Framework – Nature of Legislation, Guidelines of the Productivity. Industrial Conflicts, Strikes and Lock-out, Trade Disputes, Industrial Law and Economic Development. Agencies: I.A.P., N.I.C, P.P.I.B., Industrial Training Funds, Federal Ministry of Labour, International Labour Organization.

**PUL 213: Human Rights Law I (First Semester) (4 Units Elective)**

History and Nature of Human Right Law, The Development and growth of State, Recognition of Human Rights, e.g. The United States, Britain and France. International Promotion and Protection of Human Rights, The European Convention on Human Rights, Comparative Study of the Protection of Human Rights by the Military and Civil Governments in Nigeria, Human Right Promotion and Protection since the Commencement of Fourth Republic. The Role of the NGOs in the Promotion and Protection of Human Rights, including their problems, The Future of Human Rights in Nigeria.

**POL 211: Introduction to Nigerian Government 1 (First Semester)  
(3 Units Elective)**

The relevance of the above content to Law and Jurisprudence should be emphasized.

**POL 221: Nigerian Government and Politics II (Second Semester)  
(3 Units Elective)**

The relevance of the above content to Law and Jurisprudence should be emphasized.

**PSY 211: Social Psychology 1 (First Semester) (3 Units Elective)**

The relevance of the above content to Law and Jurisprudence should be emphasized.

**PSY 221: Social Psychology II (Second Semester) (3 Units Elective)**

The relevance of the above content to Law and Jurisprudence should be emphasized.

**PUL 311: Criminal Law 1 (First Semester) (4 Units Compulsory)**

General Introduction and Purpose of Criminal Law. The Content of Criminal Law, History and Sources of Nigerian Criminal Law. The Element of an Offence. Classification of Offences, General Principles of Criminal Responsibility, Parties to an Offence, General Defences to Criminal Responsibility.

- a. Provocation
- b. Insanity
- c. Intoxication
- d. Mistake
- e. Private Defence (Self Defence and the Defence of Property)
- f. Accident
- g. Bonafide Claim of Right
- h. Immaturity
- i. Necessity
- j. Extraordinary Emergencies
- k. Immaturity

**PUL 321: Criminal Law II (Second Semester) (4 Units Compulsory)**

Preliminary or Inchoate Offences: Attempts and Conspiracy, Offences against the Person, Unlawful Homicide (Murder and Manslaughter), Assault, Offences against Property, Stealing, Burglary and Housebreaking, Robbery, Malicious Damage to Property, Receiving Stolen Property, Sexual Offences: Rape, Indecent Assault to Females, Defilement, Corroboration in Sexual Offences, Offences against the State and against Public Order, Treason and Treasonable Felony, Sedition, Corruption, Affray, Rioting, Theories and Types of Punishment, General Principles of Sentencing.

**PPL 311: Law of Torts I (First Semester) (4 Units Compulsory)**

Historical background and General Principles of Tortious liability (Defences will be considered in relation to each Tort); Trespass to person, Assault to land, Trespass to Chattel, Conversion and Detinue, Negligence and damages, including Remoteness of Damage, Occupiers' Liability.

**PPL 322: Law of Torts II (Second Semester) (4 Units Compulsory)**

Nuisance: Rylands v. Fletcher, Liability for Animals, Malicious Prosecution, Nuisance, Vicarious Liability, Defamation, Death ad cause of Action, Fatal Accident, Deceit,

Economic Torts, Passing Off, Civil Conspiracy, Intimidation, Interference with Contract, Parties, Joint Torts, Remedies.

**BUL 311: Commercial Law I (First Semester) (4 Units Compulsory)**

Sale of Goods, Nature and Formation of Contract, Conditions Warranties and Representations, Ownership and Passing of Property, Duties of the Sellers, Duties of the Buyer, Effect of Contract, Remedies, Special Commercial Contracts in outline, the use of various payment devices, e.g. Cheque, Credit Cards, Luncheon and Fuel Vouchers.

**BUL 321: Commercial Law II (Second Semester) (4 Units compulsory)**

Hire Purchase Nature and meaning of Hire Purchase, Hire Purchase in Purchase in Common Law and under the Hire Purchase Act 1990 LFN. Ownership and passing of property; Remedies of Owner and Hirer, Minimum payment clause and damages, Standard Form Hire-Purchase Agreements. Bills of Sale, Conditional Sale and Credit Sale Agreement; Agency: Definition and formalities and capacity; Authority of the agent, Ratification, Types of Agency, Relationship of the Principles and Agents to third parties.

**LAW 399: Application of Computer Law (4 Units Compulsory)**

Introduction to Basic Programming. Data: Types, Constants and Variable, Statement-types, Assignment types, Input Output Statement, Control Statements, Data Base Management System, Creation, Access and Storage in files, Computer and Computer Systems, Application to specific areas like formation of contract, Misrepresentation and Breach of Contract, Tort, Liability, Damages. Copyright and Confidentiality Statutory Control of Data Use: The Computer as Evidence.

**BUL 321: Law of Banking I (First Semester) (4 Units Elective)**

Banking: Nature, History and evolution of Banking in Nigeria. Law regulating the Establishment and Operation of Banks and instruments, including Cheques, Promissory Notes, Bills of Exchange, etc. Negotiability and Assignability, Endorsement and Delivery, Presentment and Notice of Dishonour of other Financial Institutions, Control, Money Laundering and Role of Financial Institutions, etc.

**BUL 322: Law of Banking II (Second Semester) (4 Units Elective)**

Banking – Customer Relationship including the Nature and Legal efforts of Bank Account, Overdrafts, Bank Notes, Cheques and their Crossing etc. Mortgages and foreclosures etc. Forgeries, Conversions, Securities and Advances.

**PPL 312: Family Law I (First Semester) (4 Units Elective)**

Nature of Family including extended Family system, the Nature and Sources of Nigerian Family Law, Nature, Form and Incidence of Marriage under Statutory/Customary/Islamic Law, Contract and Celebration of Marriage, Formal and Essential validity of Statutory Marriage, Void and Voidable Marriage.

**PPL 322: Family Law II (Second Semester) (4 Units Elective)**

Jactitation of Marriage, Judicial Separation, Dissolution of Statutory, Customary and Islamic Marriages. Bar to Dissolution of Statutory Marriages, Custody of Children,

Maintenance and Financial Relief, Legitimacy, Guardianship and Adoption. An outline of the Law of Succession Under Statutory, Customary and Islamic Law.

**SOC 222: Criminology & Penology (First Semester) (3 Units Elective)**

The meaning, Nature and Scope of Criminology, the Evolution of Criminological thought, Phenomenology, Actiology of Crime and Victimology, Legal principles relating to insanity, mental deficiency and other form of mental incapacity. Criminological aspects of victimless crimes. The Criminology of enforcement. Criminology forecasting and planning.

The Legal and Jurisprudential flavour of the above content should be emphasized.

**SOC 223: Criminology and Penology (Second Semester) (3 Units Elective)**

Drug additional Alcoholism, Juvenile Delinquency, Theories of punishment, the law governing sentencing and court orders made in respect to criminal cases, Sentencing Practice, Treatment Techniques and Strategic and Criminological and Criminological Research Methods.

The Legal and Jurisprudential flavour of the above content should be emphasized.

**BUL 422: Insurance Law I (First Semester) (4 Units Elective)**

Nature of Insurance, purposes of functions of Insurance, Types of Insurance including Marine Life and Personal Accident Insurance, Motor Vehicle Insurance, etc. Insurable interest and Principles of Indemnity. Parties of Insurance, Contract, Assignment of Insurance Policies.

**BUL 424: Insurance Law II (Second Semester) (4 Units Elective)**

Underwriting and reinsurance Claims and Settlement of Claims, State Control of Insurance Business, Recapitalization of Insurance business.

**PPL 411: Land Law I (First Semester) (4 Units Elective)**

Introduction: Historical Evolution of Land Law; Sources of Nigeria land law, Terminology, Ownership, Possession, Titles, Rights, Liability in Land, etc. Customary Land Law; Modes of Acquiring title to Land Settlement, Expansion, Loan or Borrowing, Pledge or Pawn, Gift, Conquest, Allotment, Kola Tenancy, Concept and Ownership of land (i) nature of Title to land (ii) Control and Management of Community Land individual fights and extent of community land today (iii) Creation of Family Land; Nature and extent of member's right in Family Land, Control of Family Land, Alienation of Family Land, Recovery of family land, improvement by a member on family land, termination of family land (iv) An outline of Succession of Right of Land.

**PPL 421: Land Law II (Second Semester) (4 Units Compulsory)**

Non-Customary Land Law: The Land Use Act, State Control of Land, grant of Right of Occupancy, what Certificate of Occupancy connotes, Alienation of Certificate of Occupancy Revocation of Certificate of Occupancy, Compensation for Revocation, Relationship between Land Use Act and other State Land Laws. An outline of Control of Natural Resources, Mineral, Water and Forest; Agrarian Reforms, Right and Interest



inland; Freehold, Joint Tenancy, Tenancy in Common Prescription, Laches and Acquiescence, Leasehold, Easement, Profit a Pender Covenants, Mortgages, Registration, Registration of Instruments, Registration of Title.

**PPL 412: Equity & Trusts I (First Semester) (4 Units Compulsory)**

General Principles of Equity: Nature, Doctrine and History of Equity, its Development in England and its Introduction to Nigeria, The Relation between Equity and Common Law, Conflict Between Equity and Customary Law, Maxims or Equity, Nature of Equitable Right and Interest Priorities, Assignment of choses in action, Conversion, Election, Satisfaction, Equitable Defences, Estoppels, Laches and Acquiescence.

**PPL 422: Equity & Trusts II (Second Semester) (4 Units Compulsory)**

Law of Trusts: Nature and Classification of Trusts; The Requirement of Trust, Constitution of Trusts, Express Private Trusts, Charitable Trust, Constructive Trust, Protective and Discretionary Trusts (an outline only) Trusts in favour of Creditors, Appointment of Trustees, Duties and Discretion of Trusts, Power of Trustees, Breach of Trust, Retirement and Removal; of Trustees. An outline Administration of Estate.

**PUL 413: Administrative Law I (First Semester) (4 Units Elective)**

Nature, Scope and Sources of Administrative Law, Administrative Agencies and Procedure, Relationship Concepts, The Rule of Law, Separation of Powers and Delegation of Powers, Classification of Powers, Nature and Scope of Powers, Delegated Legislation its Nature, Forms, Making and Control, Review of exercise of Discretionary Powers.

**PUL 423: Administrative Law II (Second Semester) (4 Units Elective)**

Administrative Law and Adjudication, Powers of Administration; Administrative: Administrative Invasion of Tribunal of the people's legal right and delegations, tribunal and inquiries. Judicial Control of Administrative decision and Judicial Power of Administration.

- (a) Ground of Judicial Review, e.g. Ultra Vires, Natural Justice and Error or Law, Impediments to Judicial Review.
- (b) Remedies, e.g. Certiorari, Prohibition, Mandamus, Declaration, Injunction, Habeas Corpus, Damages and Appeal and Ombudsman.
- (c) Action by and against the State, Corporation, including Local Government Councils, Liability of Public Officers.

**PUL 412: Environmental Law I (First Semester) (4 Units Elective)**

Definition and Scope of Environmental Law. An Analysis of the Legal, Political, Social and Economic dimensions of Environmental problems and the influence on the selection of Environmental Control legislation on salient issues, e.g. Pollution, Sanitation and Public and Public Health and Conservation. The National Policy on Environment for Nigeria and concept of Sustainable Development. The sources and types of Environmental Pollution and the various control and management techniques. The statutory/regulatory framework of laws of pollution. The Constitutional right to Environmental quality; the scope of Environmental legislation; the development and

problems of citizens initiated environmental litigation. Federal, state and Local responses to the problems of maintain environmental standards. Institutions responsible for environmental protection and management, Local and International.

**PUL 422: Environmental Law II (Second Semester) (4 Units Elective)**

Case studies in Environmental Law in some selected area vis-a-vis Oil Pollution, Industrial Wastes and Effluent. Water Pollution and Control Law, Water quality Management, Floods, Erosion and Agricultural run-offs. Air Pollution and Control Laws; Automobile Pollution, Noise Pollution and Control Laws. The problems of the urban Environment, Sewage waste disposal, etc. Population Growth and Environmental Pollution Socio-legal implications. Planning, Conservation Laws, Forestry and Wildlife, Natural Hazard and the Law in Nigeria. Floods, Desertification, Erosion, Earthquakes, Legal Remedies and Administrative strategies in Environmental Prosecution in Nigeria.

**PUL 411: Law of Evidence I (First Semester) (4 Units Compulsory)**

General Introduction: Sources of Nigeria Law of Evidence, Direct and Circumstantial Evidence, Facts in Issue and Relevant Facts, Similar Facts Evidence, Res-gestae, Presumptions, Confession Statement, Estoppels.

**PUL 421: Law of Evidence II (Second Semester) (4 Units Compulsory)**

Character Evidence, Opinion, Evidence, Hearsay Evidence, Estoppels: Competence and Compellability of Witnesses; Privilege Generally, Corroboration, Burden of Proof, Documentary Evidence.

**JIL 412: International Law I (First Semester) (4 Units Elective)**

General Introduction: History and Sources, International and Municipal Law, subjects of the Law of Nations, State, Nature and Classification, Recognition of States, Governments and Belligerents, de jure and de facto, State Succession, Territory, Acquisition and Loss, Individual, Nationality and Domicile, Human Right and fundamental Freedom, Diplomatic Representative. Status and Functions of diplomatic envoys and consuls; privileges and Immunities, Diplomatic Mission and International Organizations. State responsibility and conditions of basic International Claims.

**JIL 422: International Law II (Second Semester) (4 Units Elective)**

State Jurisdiction: Territorial Waters and Airspace, International servitudes and Waterway, International Agreements: Nature, entry into force, Ratification, Reservations, Interpretation and Discharge. International Organizations, the United Nations and its Charter specialized Agencies; Disputes, Pacific and non-pacific methods of settlement. The African Union, ECOWA, War and Neutrality, Position of belligerent forces and civilization in War. The Hague and Geneva Convention. Economic Warfare – on land, sea and in the air. Effects of outbreak of War, persons actions, Contracts treaties. The Legal Capacity of use of force in States, Recognized Belligerents and U.N. The Legal Claims to make was and U.N. Charters obligations. Position of neutrals. Punishment of War Crimes Nuremburg Trials.

**POL 314: Political Development & Underdevelopment (First Semester)  
(3 Units Non-Law Elective)**

What is Development and Underdevelopment, Definition and Meaning of Poverty, Deficiency, and gap between the rich and the poor; Theories of Development, Modernization, Roles of Development Agencies, Globalization and the Nigeria Society, Socio-Economic Inequality, Urban Rural Development.

The relevance of the above contents to Law and Jurisprudence should be emphasized.

**POL 323: Comparative Federalism (Second Semester)  
(3 Unit Non-Law Elective)**

Introduction to Federal System in Nigeria and other Jurisdiction. Definition of terms: Federal System and Federalism. Federal System and other system of Government. Concept of Separation of Power in a Federal System. Rule of Law under Federalism.

The relevance of the above contents to Law and Jurisprudence should be emphasized.

**JIL 511: Jurisprudence & Legal Theory I (First Semester)  
(4 Units Compulsory)**

Theories of Law; Natural Law School. Historical School, Positive Theory, Sociological Theory, Pre Theory of Law, Marxist Theory of Law, Indigenous Theories Concepts of Law Islamic School of Law, Maliki School and Concepts of Customary Law Reform, Codification, Restatement, Adaptation and Unification of Customary Law.

**JIL 521: Jurisprudence & Legal Theory II (Second Semester)  
(4 Units Compulsory)**

Introduction: The purpose of the study of Law and Jurisprudence; Meaning and Functions of Law. The relation of law to: Justice, Religion, Law and Social Change, Ethics. The relation of the above concepts to Islamic and Customary Law. Spruces of Law: Legislation, Customs and Judicial precedents, Nature, Ascertainment, Applicability and the Role of these courses in Contemporary and early Society.

**BUL 511: Law of Business Association I (First Semester) (4 Units Compulsory)**  
Forms of Business Organization, Sole Proprietorship; Partnership, Incorporated Companies, Creation and Incidents, Formation of Companies. The Corporate Affairs Commission, Certification of Incorporation, Pre-Incorporation Contracts, Promoters Liability, Liability. Memorandum of Association Doctrine of Ultra Vires; Alternation of Memorandum and the Objects Clause. Articles f Association; Contractual effect of Memorandum and Articles, Doctrine of Constructive Notice and Indoor Management. Prospectus, Statement in Lieu of Prospectus, Remedies for Misrepresentation, Regulation of Company Matters: Corporate Affairs Commission (CAC), Securities and Exchange Commission (SEC).

**BUL 521: Law of Business Association II (Second Semester)  
(4 Units Compulsory)**

Company Security, Shared and Debentures; Becoming and Ceasing to be a Shareholder; Transfer of Share; Fixed and Floating Charges. Directors and other Officers; Appointment, Removal, Duties Right and Power, Meeting, Resolution, Majority Powers and Minority Rights; Prevention of Oppression and Mis-Management. Reconstructions and Take-overs. Winding up in (in outline), Partnership: Relationship, Relation of Partners inter se and to third parties, Dissolution of Partnership.

**LAW 599: Long Essay (First & Second Semesters) (6 Units Compulsory)**

A long Essay on a suitable legal topic approved by the College. The essay must be the result of research effort conducted under the Supervision of a member of the Academic Staff. The Essay must not be more than 80 quarto pages of double space typing. Each final year student will have approved for him or her, a topic of research at the beginning of the final year. Such a Candidate will be expected to produce a well-research essay containing a minimum of 10,000 words under the Supervision of a member of the Academic Staff.

**PUL 513: Law of Arbitration I (First Semester) (4 Units Elective)**

Deals primarily with meaning, Nature and Scope of Arbitration Agreement. Types of Arbitration Agreements. Appointment of Arbitrators and Revocation of mandate of an Arbitrator, Termination of Arbitration Arbitral Proceeding, Award (types, forms and content of Arbitral award), cost of Arbitration, Court and Arbitration, Impeachment Enforcement of Award and time Limitation for Enforcement of Award.

**PUL 514: Law of Arbitration II (Second Semester) (4 Units Elective)**

This Course examines the meaning and nature of International Arbitration in Nigeria, different forms of International Arbitration, Conventional Arbitration Practice in Nigeria N.Y. Convention and ICSID Convention, International Arbitration proceedings, Awards: Nature and Forms, Impeachment of International Awards, Enforcement of International Arbitral Awards, Enforcement of Lex Mantoria Award, Rules in International Arbitration.

**PUL 518: Civil Procedure I (First Semester) (4 Units Compulsory)**

Objectives of Civil Procedure, Sources of Civil Procedure Rules. Parties to Civil Action, Causes of Action; Service of Court Process: Service within Jurisdiction, Service outside Jurisdiction, Service on Limited Liability Companies, Personal Service, Substituted Service; Defective Service. Commencement of Action by: Ordinary Writ of Summons, Specially Endorsed Writ, Originating Summons, Applications, Petitions including Election Petitions, Detective Writ of Summons, Motions on Notice and Exparte. Entry of Appearance: Limitation of time, Venue of Proceedings, Civil Jurisdiction of Courts. Pleadings and Amendment of Pleadings: Statement of Claim, Statement of Defence, Counter Claim. Procedure for the Enforcement of Fundamental Human Rights, Procedure for Recovery of Residential Accommodation (Landlord and Tenant): Trail Process and Procedure, Security for Cost, Joinder of Actions and Parties, Discontinuance of Action, Inter-pleader Proceedings: Visit to Locus in Quo: Orders of

Court: Injunction, Interim and Interlocutory, Striking out of Suit, Transfer of case to another Court. Judgment of Court: Judgment in default of Appearance, Summary Judgment Procedure, Final Judgment, Costs, Setting aside of Judgment, Non-Suit. Enforcement of Judgment: Judgment Summons, Recovery of Judgment Debt, Writ of Attachment and Subsequent Sale, Writ of Fidei, Enforcement against the person of the Judgment Debtors. Appeals: Hierarchy of Civil Courts and their Jurisdiction, Stay of Execution pending Appeal, Setting aside of Judgment.

**PUL 528: Criminal Procedure II (Second Semester) (4 Units Compulsory)**

Introduction to Criminal Procedure; Sources of Criminal Law in Nigeria – Criminal Code and Penal Code. Arrest of Suspect; Complaints by Information, First Information Report, Trial Procedure under the Criminal/Penal Code of Northern Nigeria, Statement of the Accused at the Police Station upon Arrest, Related Matters of Duress, etc. (Procedure in Southern Nigeria). The Charge: Defective Charge; Amendment of Charge; Withdrawal of Charge; Striking out of Charge. Arraignment: Charge Read and explained to each Accused Persons; Plea; Change of Plead, Bail by Court, Trial Procedure Prosecution Witnesses, Defence Witnesses, Close of Prosecution Case: Address by Counsel. Jurisdiction of Criminal Trial Courts. Adjournments and Related matters. Enforcement of Witnesses to appear in Court and testify; Contempt of Court Proceedings; Visit to Locus in quo of Crime. Principle of fair hearing in Criminal Trials; Judgment: Conviction; Sentence; Hierarchy of Criminal Trial Courts: Appeals against Conviction and/or Sentence; Appeal Procedure; Appeal with without leave of Court, Stay of Execution pending Appeal; Judgment on Appeal Affirmation of trial Court Judgment; Setting aside of trial Court Judgement; Order for retrial by the same Judge or by another Judge.

**PUL 514: Oil and Gas Law I (First Semester) (4 Units Elective)**

The origin and occurrence of Oil and Natural Gas; Theories of Ownership in Oil and Gas, United Nations and Natural Resources, Interests in Oil and Gas Oil Concession, Effect of Rights of Concessionaries on Natural Gas. Exploration of Rights in Oil and Gas; Oil and Gas Pipelines, Nature, legal Status, Condition for grants, Right and Obligations of the licences.

**PUL 524: Oil and Gas Law II (Second Semester) (4 Units Elective)**

Refining of Petroleum Oil; Pollution; Oil and Gas Revenue Legislation; Administration of Petroleum Profits; Nigerian National petroleum Corporation (NNPC); State Participation in the Petroleum Industry; Manpower Development; Organizations of Petroleum Exporting Countries (OPEC).

**PPL 512: Conveyancing I (First Semester) (4 Units Elective)**

Definition, Instruments, Rules of transfer of Instruments in Land. Deeds: their Nature and Content. Power of Attorney and other terminologies in Conveyancing practices, Instruments, Searches Validity Element for the Transfer of interest in land, etc. The Conveyancing Contract; Nature, Clauses, Transfer of Equitable and Legal Estates.

**PPL 522: Conveyancing II (Second Semester) (4 Units Elective)**

The Course concerns the Law relating to the Transfer of a legal estate or interest in land, leases, Mortgages, Assignments. It is also with the transfer of title of land. The relevance of the study is examined in the light of the Nigerian Property Law.

**PUL 515: Healthcare Law I (First Semester) (4 Units Elective)**

Health is a vital aspect of the human existence fully protected by the Country's Constitution. Yet its critical essence needs to be well articulated within the discipline of law as a course of study because of the important and controversial health care issues involved with implication for the individual, family and society.

**Introduction**

- (a) Definitions
- (b) Evolution of Health Law
- (c) Sources of Health Law ... Statutes, Regulations, Policies, etc.
- (d) Right of Health ... Under Municipal Law, Regional and International Treaties/Instruments.
- (e) Overview of pertinent issue relating to the Nigeria Health care delivery system.
- (f) Legal Framework of Health care decision making, including Professional Self-regulations, Government Regulations, Moral Judgment and the market discipline.

**PUL 525: Healthcare Law II (Second Semester) (4 Units Elective)**

Health is a vital aspect of the human existence fully protected by the Country's Constitution. Yet its critical essence needs to be well articulated within the discipline of law as a course of study because of the important and controversial health care issues involved with implication for the individual, family and society.

**Legal Aspects of Reforms in Health Care Issues.**

- (a) Informed Consent, Right of Die, Right to Treatment, Issues in Medical Malpractice, HIV/AIDs, etc.
- (b) Doctor-Patient Relationship, including interface or moral ethical and legal problems in modern medicine.
- (c) Health Care Institutions ... Emphasis on recent development e.g. National Health Insurance Scheme (NHIS).
- (d) "Costs" of Health Care Delivery, New Payment Methods, Status/Rights ... Implications of NHIS for Medical Care.
- (e) Comparative National Health Care reforms, Policies and Laws.

**REGULATIONS GOVERNING THE CONDUCT OF EXAMINATION**

- (i.) All students who have been admitted to a course of study in the university shall be allowed to take their examination.
- (ii.) All such students who are matriculated with the University, are required in addition to payment of all prescribed fees to the University, to have a minimum of 75 percent attendance in all the courses, lectures in the

various departments of the University, before they are allowed to take their examination.

- (iii.) Students must be punctual at every examination hall. Students who come late to the examination hall, may be admitted at the discretion of the Chief Invigilator, but no student shall be admitted into the examination hall 30 minutes after the commencement of the examination.
- (iv.) No Student would be allowed to leave the examination hall for first one hour after the commencement of the examination with the intention of leaving the examination altogether.
- (v.) No Student would be allowed to leave the examination hall with the intention of returning except to go to the toilet, and an attendant of the University must accompany the student.
- (vi.) Students are advised to maintain utmost silence in the examination hall throughout the examination.
- (vii.) Students must bring with them to the examination hall their own ink, pens, pencil and any other instruments, which are specifically permitted to be brought into the examination hall for a particular examination paper.
- (viii.) Students are not allowed to bring with them any paper, book or bag into the examination hall.
- (ix.) No student is allowed to communicate with any student, when the examination is in progress in the examination hall. The students, willing to seek clarifications to a question by the invigilator are advised to raise their hands to draw the attention of the invigilator.
- (x.) The use of scrap papers is not permitted in the examination hall. Students are advised to do rough examination work in the answer booklet itself and it can be crossed through later on.
- (xi.) Students are advised to write neatly and legibly.

### **SCHOLARSHIPS AND PRIZES**

The College of Law and Board shall recommend for Senate recognition and Honour, the best final year student for the year, provided that the student achieves a performance not below the level of Second Class Honours (Upper Division) in the degree examination and provided that such a student had not spend more than the minimum period prescribed for the degree programme.

### **STUDENT'S SOCIETIES**

The Law Students Association (LAWSA), is an organization comprising all students in the College of Law. The Association was founded in the 2000/2001 Session by the First Batch of intake into the College and Membership has been made mandatory by the Student Body of LAWSA for all Law Students. LAWSA shall not operate independently from the College of Law.

## **CODE OF CONDUCT FOR LAW STUDENT AS RECOMMENDED BY THE COUNCIL FOR LEGAL EDUCATION**

The Legal Profession is an Honourable Profession and all who belong or aspire to it must exhibit that trait and strength of character; good character is most crucial for admission to the Law School and subsequently to the Bar.

The Council of Legal Education, conscious of its responsibility for the Legal Profession and in conjunction with the body of Benchers, for regulating the practice of the profession in Nigeria, i.e. to train for the profession disciplined men of honour and gentlemen, hereby publishes this Code of Conduct for the information and compliance of Law Students who intends to seek admission into Nigeria Law School, qualify for the Bar and subsequently enrol as Legal Practitioners in Nigeria.

- (a) A Law Student must be honest and of good behaviour. He must be a responsible and reliable person.
- (b) (i) He should be well dressed at all times. The regulation dress for male students is dark suits, white shirts, black shoes with white breast pocket handkerchiefs. Stripped black trousers may be worn under the dark jackets.
- (ii) For female students, white blouse, dark jacket and black skirt covering the knees (dark suit) or dark ladies dress and black shoes are to be worn. There should be no embroidery and trimmings of any type and only moderate (earrings and watches) are allowed to be worn.
- (iii) During hot weather, student may be permitted to wear white with ties and dark trousers and black shoes to class. The wearing of complete native attire may be allowed only at lectures and social functions.
- (iv) At Law Dinners, Students must be punctual, be in regulation dress and observe all table manners.
- (v) At call ceremonies, qualified student must wear regulation dress and also the Wig. Winged Collar and Bibs or Collarets and Barrister Gown. These must be clean and neat. It is compulsory.

The above mode of dress are mandatory for both male and female students for attending lectures and other extra-curricula activities and when called to Bar, at attendance at Magistrate and all Superior Court.

- (c) Under no circumstance should any student engage in fighting, the use of offensive language, assault or other related misconduct is prohibited.
- (d) A student must not have been convicted of Criminal offences, bordering on dishonesty or fraud. Free pardon under the prerogative of mercy for convicts because the fact of commission of the crime remains. A pardon only wipes out the punishment.
- (e) A prospective student must not be involved in Secret Cult activities in the University or anywhere. No student found guilty by the University Authorities and rusticated for belonging to a banned organization will qualify for admission to the Law School.
- (f) A Law Student should not have been found guilty of examination malpractice in the University or of any offences involving moral ineptitude. If the offense is



committed in the Nigeria Law School, such a student will be disqualified for life. Students should shun cheating of any kind at all times, particularly during examination either in the University or in the Law School.

- (g) A Law Student should not be involved in any shady business before or at the Law School (or in the so-called 419) or do anything that will portray him as a doubtful character.
- (h) The one-year practical training at the Law School is a full-time course. No student should therefore engage in any gainful employment or Youth Service during the course.
- (i) All Law Students are expected to observed decorum in manner sand decent living at all time and must learn now to behave a assemblies of people. They must learn the act of addressing others and learn a decent table manner. Their spoken English Language should be in Queen's English as the use of English Language is a great weapon in the Lawyer's armoury.
- (j) An aspirant to the Nigerian Bar must be disciplined in keeping time and appointments. The Courts sit at 9.00am and Barristers must be in Courts latest by 8.45am. Students should imbibe this culture or habit while in school. If lectures stat by 9.00am. Students should be seated for lectures by 8.45am.
- (k) A prospective student must not found to be dishonest in his interpersonal relations with people or known with acts which may be suggestive of his inability to enjoy the confidence of his clients after being called to the Nigeria Bar.
- (l) Aspirants to the Nigerian Bar are expected to be Analytical and Logical in their thinking and arguments.

## DEPARTMENT OF BIOLOGICAL SCIENCES

### STAFF LIST

#### A ACADEMIC STAFF

NAME OF STAFF	QUALIFICATION	DESIGNATION
Ikeduigwu, F.E.O.	B.Sc., PhD	Professor (HOD)
Okorie, T. G.	B.Sc., M.Sc., PhD	Professor (DVC)
Ehiagbonare, J. E.	B.Sc., M.Sc., PhD	Professor (Dean)
Okafor-Elenwo, E. J.	B.Sc., M.Sc., PhD	Senior Lecturer
Otajevwo, F.	B.Sc., M.Sc., PhD	Senior Lecturer
Okwu, M. U.	B.Sc., M.Sc.	Lecturer II
Akinyeye, A. J.	B.Sc., M.Sc.	Assistant Lecturer
Solanke, E. O.	B.Sc., M.Sc.	Assistant Lecturer
Aborisade, W. T.	B.Sc., M.Sc.	Assistant Lecturer
Osamwonyi, U. O.	B.Sc., M.Sc.	Assistant Lecturer

#### B. NON-ACADEMIC STAFF

NAME OF STAFF	QUALIFICATION	DESIGNATION
Imade, S.	HND, PGD (Microbiology)	Principal Lab. Technologist
Orjiekwe, I. U.	HND, PGD (Microbiology)	Senior Technologist
Aluyi, A.	OND, ADVANCE DIPLOMA	Assistant Technologist
Oladeinde, B.	AIMLT	Assistance
Olley, F.	SSC	Assistance
Idemudia, M.	SSC	Assistance

### HISTORY OF MICROBIOLOGY PROGRAMME

The Department of Biological Sciences, Igbinedion University, Okada was established in 2000 sequel to the approval and establishment of the University in 1999. The Department has degree options in Microbiology, Plant Science and Zoology. The first intake into the Microbiology degree option was in the year 2000/2001 academic session. Since then, the student population has grown to one hundred and sixty three (163) in the 2010/2011 session.

The training of these students has been handled by highly qualified, competent and efficient staff. A total of two hundred and fifty six (256) students have graduated in the programme from eight sets of students in the 2003/2004 to 2010/2011 sessions. The staff list presently comprises twenty one (21) academic staff and four (4) non-teaching staff.

### PHILOSOPHY AND OBJECTIVES OF MICROBIOLOGY PROGRAMME

#### Philosophy:

The philosophy is to provide a broad based education in Microbiology and produce man power (graduate) equipped with theoretical and practical knowledge, which will make them relevant in nation building and thus capable of helping the nation to achieve its goals of industrialization and self-sufficiency.

#### Objectives:

The objectives of the programme, therefore, are to produce confident, self-reliant and highly competitive graduates who can create employment opportunities and fill career opportunities in industries, hospitals, private businesses, academia and research.

To achieve this, the course for B. Sc. honours degree in Microbiology are designed to accommodate a mosaic of students with diversity of interests and occupational goals in the field of medical, industrial, environmental soil, marine/freshwater, food and agricultural as well as microbial genetics, physiology and biochemistry.

The programme integrates doctrines and concepts from genetics, biochemistry, chemistry, ecology, immunology, physiology, bacteriology, virology, statistics, botany, zoology and lastly, microbiology in order to produce well grounded students who can vie favourably anywhere and particularly in the highly competitive Nigerian food and beverages industries, hospitals and other related public and private sectors.

The programme incorporates a six-month industrial work experience.

### **POLICY AND PRACTICE OF STAFF DEVELOPMENT**

The University has staff development programme which encourages members of staff to embark on self development including acquisition of higher degrees (M. Sc., Ph.D) in the relevant areas of specialization, publish papers and research finding, belong to professional bodies and attend conferences and short courses.

Those studying for higher degrees in Igbinedion University, Okada, enjoy a rebate of 33% of the fees. Furthermore, staff who publishes an accepted journal article in scholarly journal is given some honorarium as compensation and encouragement.

### **ACADEMIC ATMOSPHERE**

The Department encourages students to dress in a corporate manner while attending lectures.

Students are encouraged to use the library facilities during free periods.

Members of staff are encouraged to embark on research projects, publish papers, attend seminars and conferences. Students are also prepared in like manner through application of their knowledge in research project and presentation of seminar.

### **ADMISSION REQUIREMENTS IN THE MICROBIOLOGY PROGRAMME**

The admission of candidates into the Microbiology programme is done in one of three ways:

#### **(a) Through University Matriculation Examination (Ume)**

In addition to an acceptable pass in UME, candidate seeking admission into B. Sc. Degree programme in microbiology must have not less than ordinary level credit passes in at least five (5) SSCE/GCE, SSCE/NECO (or acceptable equivalents) subjects including English Language, Mathematics, Physics, Chemistry and Biology in not more than two sittings.

Candidates are, in addition, required to submit themselves for a written examination and oral interview before admission is finally offered to deserving candidates.

#### **(b) By Direct Entry**

Candidates seeking direct entry admission into the Microbiology programme must in addition to satisfy the University matriculation requirements, have a minimum of two

GCE Advanced level passes in relevant Science subjects including Biology, Chemistry and Physics.

Candidates who possess good Diploma Certificate in relevant field of study can be offered direct entry into the Microbiology Programme.

**(c) Through Inter-University Transfer**

Candidates wishing to transfer into the Department (Microbiology) from another University must obtain and fill the Inter-University Transfer form from the University Admission's Officer.

Each application for transfer will be treated on its own merit. No candidate will be admitted from another University unless the College and the Department are satisfied that the candidate has met the minimum academic standard required for each level.

**EXAMINATION REGULATION**

- a. All courses taught during each semester shall be examined at the end of that semester.
- b. Only students who are duly registered for courses in a given semester and have met their financial obligations to the university shall be eligible to sit for examination in those courses.
- c. Students shall report at the stipulated examination halls fifteen minutes before the start of the examination.
- d. No candidate shall be allowed into the examination hall after 30 minutes of the start of the examination or leave within 30 minutes of the conclusion of the examination.  
Candidates must not bring into the examination hall any handset, computer, textbooks or notes, or involved in any other form of exam malpractices.
- e. Any candidate caught cheating during examinations must be made to complete the examination malpractice form which shall be handed over to the Dean for further action.
- f. Candidates shall comply with instructions given by the Chief Invigilator as to the submission of their answer sheets at the conclusion of the examination.

**COURSE LISTING**

Courses are listed in the hand book in the following categories:

**REQUIRED COURSES OR MANDATORY COURSES (R):** These are courses which the department requires the student to take and pass but may not be used in computing the final degree result.

**CORE COURSES (C):** Courses the students must take and pass and must be used in computing the final result.

**ELECTIVE COURSES (E):** These are courses chosen by the student according to his interest in addition to those he must take to complete his degree requirements. The student needs to be guided by his course adviser.

**PRE-REQUISITE COURSES**

- (a) These are courses the knowledge of which is necessary prior to the taking of other specified (usually higher level) courses. A student is deemed to have obtained the pre-requisite knowledge if he obtains a mark not less than 30% but

will not be credited with any grade point unless he scores a minimum mark of 45%.

- (b) Pre-requisite courses must be reflected where applicable. As much as possible no course shall be a pre-requisite for a course at the same level.

### **QUANTIFICATION OF COURSES**

- (a) Courses shall be quantified and evaluated according to credit units. A credit unit refers to lecture/tutorial contact hour per week (i.e. fifteen hours of lecture/tutorial per semester) or three hours of laboratory practical class per week (i.e. forty-five (45) hours per semester).
- (b) No course shall be less than two (2) units and no lecture course shall normally be more than four (4) units

### **REGISTRATION FOR COURSES**

- (a) In every academic session, the first week of the first semester is usually the period for course registration. The period shall be lecture –free to ensure that the students are fully attended to.
- (b) Registration time will be from 8.00am to 4.00pm daily during this period.
- (c) Students in every level will be assigned lecturers to register them in the department during the exercise
- (d) All the core and mandatory courses failed in the previous year/session must be registered first before proceeding with new courses.
- (e) Late registration (i.e. beyond the stipulated duration) usually attracts penalty.
- (f) Any student who fails to register within two (2) months from the beginning of a session shall forfeit the benefit of taking any examinations in a semester of that session. Such a student shall be deemed to have voluntarily withdrawn from the university and may be readmitted only with the approval of senate.

### **CHANGE OF COURSES**

- (a) Intra-University transfer of students into Department (e.g. changing from Pharmacy to Microbiology etc) must be completed within one (1) month after lectures begin at the commencement of each semester.  
Students wishing to add or drop a subject in any semester may do so using “add and delete” forms. This will be done within two (2) weeks of commencement of lectures in each semester.

### **WORK LOAD**

- (a) A student is allowed to register for and take a minimum of thirty (30) credits and a maximum of fifty (50) credits each session (i.e. 15 credit units per semester, minimum, and 25 credit units, maximum).
- (b) A graduating student who has less than thirty (30) credits may register for only the number of credits he requires to graduate.
- (c) A student desiring to carry more than the maximum prescribed course load must apply to the Dean through the Head of Department.

## **COURSE ADVISER**

A Course Adviser is a member of Academic staff who crosschecks and approves students' registration forms. He guides, advises students and ensures that they make choices consistent with the degree regulations and requirements. The department appoints course advisers for level of the students.

## **ATTENDANCE TO LECTURES**

Student's attendance to lectures is controlled by an attendance list. This record is kept from the commencement of lectures at the beginning of every semester until lectures have been completed. A student must have attained up to 75% minimum contact hours before he is allowed to take the examination in the particular course. The attendance register shall be used by the course lecturer(s) for the submission of the students' score/grade in that course.

## **EVALUATION OF STUDENTS IN THE UNIVERSITY COURSE WORK**

The students' course work will be evaluated using the following:

- (a) Continuous assessment
- (b) Laboratory practical reports
- (c) Students Industrial Work Experience scheme (SIWES)
- (d) Written examination.

## **GRADING OF EXAMINATION**

- (i) The final grading of a taught course will consist of continuous assessment (30 %) and examination (70%). Continuous assessment comprises assignments, tests and/or practicals. The pass mark for every course is 45%. Students' results are prepared after the examinations every semester. This reflects raw scores, grades, total unit taken, total units passed and total units failed
- (ii) At the end of a session, a summary of students results is prepared for each level showing the credits taken and the credits passed during the session, the Grade Point Average (GPA), the courses failed, the cumulative unit taken, the cumulative unit passed, the Cumulative Grade Point Average (CGPA) and remarks of proceeding, summer, probation (repeat) or withdrawal from the degree programme.
- (iii) At the end of the degree programme, students results are prepared reflecting details of the session's performance including list of courses failed for the session as well as the cumulative performance and the degree classification (where applicable).
- (iv) Both the sessional GPA and CGPA are calculated using the weighted grade point. The weighted graded point of the course is the product of the point and units for the course. Thus a student who scores 80% in a three unit course has a grade point of 5 and a weighted grade point of  $3 \times 5 = 15$  for that course.

GPA is calculated from the formula

$$\text{GPA} = \frac{\text{Total Weighted points for all courses in the semester}}{\text{Total Credit Units taken for the semester}}$$

CGPA is calculated from the formula;  
**$$\text{CGPA} = \frac{\text{Total Weighted Points for the session.}}{\text{Total Credits taken for the session}}$$**

provided that all courses taken are relevant and used in the computation of the averages

- (v) The inclusion of the column for cumulative taken in each of the formats for presentation of result to Senate and to the College Board enables one to keep track record of weighted grade points being carried forward to the next session (being products expressed to the nearest integer of the CGPA and the cumulative units taken) where applicable.

### **SUMMER**

Students that have a GPA of 1.50 and above but failed some courses at the end of the second semester have a remark of 'summer' in their result slip. This means that the student shall attend summer school and retake the entire failed courses.

### **PROBATION**

- (a) A student who makes a CGPA of 1.50 or more at the end of the session will proceed to the next level of degree programme for which he is registered.
- (b) A student at 300 level or below who makes a CGPA of less than 1.50 at the end of the session will be on probation for the following session to enable him improve on the CGPA. During that session he must register for the appropriate core courses and the other courses he has as pre-requisites.
- (c) A student on probation during a session who makes a CGPA of less than 1.50 in the following academic session must withdraw from the degree program for which he is registered.
- (d) If a student changes to a new degree programme and obtains a CGPA of less than 1.5 in the new programme, he will again be on probation. If however he, obtains a CGPA of less than 1.5 a second time in the new programme he will be asked to withdraw from the University.

### **TRANSFER**

- (a) Every student seeking transfer from one degree programme to another must complete the necessary form within the stipulated time.
- (b) All courses taken in the previous degree programme that are relevant to the new degree programme by the offering department will be used for the computation of CGPA for the new degree programme.
- (c) All regulations in respect of the new programme concerning core courses, required courses etc. must be met before graduation.

## HONOURS CLASSIFICATION

- (a) No student shall qualify for award of an honours degree of the university if he spends more than two sessions (four semester) beyond the normal period allowed for the degree programme
- (b) No student who has transferred more than twice will be qualified for an honours degree.

## AWARD OF DEGREE

At the end of the degree programme, students' results are prepared reflecting details of the session's performance. This includes list of courses failed for the session as well as the cumulative performance and the degree classification according to the following scheme.

### CGPA

4.50-5.00  
3.50-4.49  
2.40 -3.49  
1.50-2.39

### CLASS OF DEGREE

First Class Honours  
Second Class Honours (Upper Div.)  
Second Class Honours (Lower Div.)  
Third Class Honours

## CONFIRMATION OF DEGREE

After the recommended examination results from the College Board had been approved by the university senate, successful candidates shall be admitted either in person or in absentia to the degree of the university at the convocation for the award of degrees. There after the candidates shall be issued with certificates under the common seal of the university.

## ACADEMIC PROGRAMMES OFFERED IN THE DEPARTMENT OF MICROBIOLOGY 100 LEVEL FIRST SEMESTER

COURSE CODE	COURSE TITLE	CREDIT UNITS
BOT 111	INTRODUCTION TO PLANT SCIENCES	3
CHM 111	GENERAL CHEMISTRY (PHYSICAL)	3
CHM 112	GENERAL CHEMISTRY (ORGANIC)	2
EPS 111	GROUP WORK	0
GST 111	COMMUNICATION IN ENGLISH	2
GST 112	LOGIC, PHILOSOPHY AND HUMAN EXISTENCE	2
GST 113	NIGERIA PEOPLE AND CULTURE	2
PHY 111	GENERAL PHYSICS I (MECHANICS & PROPERTIES OF MATTER)	2
PHY 112	GENERAL PHYSICS II (FLUIDS DYNAMICS / ELASTICITY)	2
PHY 113	GENERAL PHYSICS III (THERMAL PHYSICS)	2
ZOO 111	GENERAL ZOOLOGY	3
	<b>TOTAL CREDITS</b>	<b>23</b>



<b>100 LEVEL SECOND SEMESTER</b>		
<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>CREDIT UNITS</b>
<b>BOT 121</b>	FLOWERING PLANTS; STRUCTURE & FUNCTION	3
<b>CHM 121</b>	INORGANIC CHEMISTRY	2
<b>CHM 122</b>	GENERAL LABORATORY CHEMISTRY	2
<b>CHM 123</b>	ORGANIC CHEMISTRY II	2
<b>GST 121</b>	USE OF LIB. STUDIES, SKILL & INFO. TECHNOLOGY	2
<b>GST 122</b>	COMMUNICATION IN ENGLISH II	2
<b>GST 123</b>	COMMUNICATION IN FRENCH	2
<b>EPS 121</b>	ENTREPRENEURIAL STUDIES	0
<b>PHY 100</b>	PRACTICAL PHYSICS	2
<b>PHY 122</b>	MODERN PHYSICS I	2
<b>PHY 123</b>	OPTICS VIBRATIONS AND WAVES	2
<b>ZOO 121</b>	FUNCTIONAL ZOOLOGY	3
	<b>TOTAL CREDITS</b>	<b>24</b>

<b>200 LEVEL FIRST SEMESTER</b>		
<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>CREDIT UNITS</b>
BOT 211	LOWER PLANTS	3 (C)
BIO 211	INTRODUCTORY GENETICS	3 (C)
BCH 211	INTRODUCTORY BIOCHEMISTRY	3 (R)
CHM 211	ORGANIC CHEMISTRY	3 (R)
CHM 214	ANALYTICAL CHEMISTRY I	3 (R)
MCB 211	GENERAL MICROBIOLOGY 1	3 (C)
MTH 215	ANCILLARY MATHS 1	3 (R)
ZOO 211	LOWER INVERTEBRATE ZOOLOGY	3 (C)
EPS 223	INTRODUCTION TO ENTREPRENEURIAL SKILL I	0
	<b>TOTAL CREDITS</b>	<b>24</b>

<b>200 LEVEL SECOND SEMESTER</b>		
<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>CREDIT UNITS</b>
BOT 222	HIGHER PLANTS	4 (E)
BIO 222	ECOLOGY (POPULATION & ENVIRONMENTAL)	4 (C)
BCH 221	FUNCTIONAL BIOCHEMISTRY	4 (E)
CHM 224	INTRO. TO ENVIRONMENTAL CHEMISTRY	3 (E)
CSC 224	HUMAN & COMPUTER INTERPHASE	3 (R)
MCB 222	GENERAL MICROBIOLOGY 11	3 (C)
MTH 225	ANCILLIARY MATHS 11	3 (R)
BCH 222	METABOLIC PATHWAY	4 (R)

ZOO 222	COMPARATIVE ANIMAL PHYSIOLOGY	4 (E)
CSP 221	COMMUNITY SERVICE PROGRAMME	0
	<b>TOTAL CREDITS</b>	<b>32</b>

**NOTE**

**C = CORE COURSE.**

**R = REQUIRED COURSE.**

**E = ELECTIVE COURSE.**

<b>300 LEVEL FIRST SEMESTER</b>		
<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>CREDIT UNITS</b>
BOT 317	TAXONOMY & MORPHOLOGY OF FUNGI	3 (E)
BIO 312	BIOLOGICAL TECHNIQUES	4 (C)
BIO 310	BIOSTATISTICS	3 (R)
MCB 311	IMMUNOLOGY ( IMMUNOCHEMISTRY)	4 (C)
MCB 312	BACTERIOLOGY	4 (C)
MCB 313	MICROBIAL PHYSIOLOGY & BIOCHEMISTRY	3 (C)
MCB 314	FOOD MICROBIOLOGY	4 (C)
MCB 315	VIROLOGY	3 (C)
MCB 317	INDUSTRIAL MICROBIOLOGY I	3 (C)
ESP 311	INTROD. TO ENTREPRENEURSHIP STUDIES 2	0
*CHM 314	SEPARATION METHODS	3 (O)
	<b>TOTAL CREDITS</b>	<b>34</b>

\*= Optional course for Microbiology Students

<b>300 LEVEL SECOND SEMESTER</b>		
<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>CREDIT UNITS</b>
MCB 399	SIWES (SIX MONTHS MARCH- AUGUST)	6 (C)
	<b>TOTAL CREDIT</b>	<b>6</b>

<b>400 LEVEL FIRST SEMESTER</b>		
<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>CREDIT UNITS</b>
BIO 410	MOLECULAR BIOLOGY	4 (R)
MCB 411	PATHOGENIC MICROBIOLOGY 1	3 (C)
MCB 412	ENVIRONMENTAL MICROBIOLOGY	4 (C)
MCB 413	MICROBIAL GENETICS	3 (C)
MCB 414	INDUSTRIAL MICROBIOLOGY 11	3 (C)
MCB 416	SEMINAR	2 (C)
MCB 417	TOXICOLOGY	3 (C)
ZOO 415	APPLIED PARASITOLOGY	4 (R)
	<b>TOTAL CREDITS</b>	<b>26</b>

<b>400 LEVEL SECOND SEMESTER</b>		
<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>CREDIT UNITS</b>
MCB 421	PATHOGENIC MICROBIOLOGY 11	4 (C)
MCB 422	ANTIMICROBIAL AGENTS & CHEMOTHERAPY	4 (C)
MCB 423	PATHOGENIC FUNGI	4 (C)
MCB 424	SOIL MICROBIOLOGY	3 (C)
MCB 425	RESEARCH PROJECT	6 (C)
	<b>TOTAL CREDITS</b>	<b>21</b>

## **COURSE DESCRIPTION**

### **100 LEVEL**

#### **BOT 111**

Introduction to Plant Science; Diversity of living organisms; Life forms, mode of nutrition, size, shape, etc. Elements of Ecology and common features of living organisms; Nomenclature and classification. Plant cell, functions of organelles; Brief survey of viruses, bacteria, PPLO; General survey of plants in the five Kingdoms, highlighting their life cycles and evolutionary relationship.

#### **ZOO 111 GENERAL INTRODUCTORY ZOOLOGY**

Historical background on origin of life; Theories accounting for origin of life; Animal family tree; Human population and growth; Mans impact on the biosphere –atmospheric climate, aquatic and terrestrial ecosystems. Biodiversity, faunal biodiversity. Invertebrata; General account of the Protozoa, Coelenterata, Platyhelminthes, Nematoda, Annelida, Mollusca, Arthropoda and Echinodermata. Vertebrata; Introduction to Protochordata- Hemichordata, Urochordata and Cephalochordata; Pisces, Amphibia, Reptilia, Aves, Mammalia. Mammalian anatomy; anatomy of *Rattus spp.*

#### **BOT 121 PLANT STRUCTURE AND FUNCTIONS**

The flowering plant structure and function, study and similarities, and differences in plant features. Plants in action including respiration, photosynthesis, water relations, translocation and mineral nutrition. Plant reproduction, seed production and germination.

#### **ZOO 121 FUNCTIONAL ZOOLOGY**

Embryology; Gametogenesis, fertilization and cleavage as demonstrated by amphioxus, Genetics; The cell and distribution of genetic material, mitosis, meiosis, inheritance, sex determination and sex linked inheritance. Histology; cells, tissues, organ formation and main features. Physiology; Functions of Mammalian skin, muscle/skeletons alimentary system / nutritional requirements and deficiencies.

### **200 LEVEL**

#### **BOT 211 LOWER PLANTS**

A systematic, evolutionary and phylogenetics treatment of fungi, algae, bryophytes and pteridophytes, with reference to their ecology and importance to man.

**BIO 211      INTRODUCTORY GENETICS**

Chromosome number and their interpretation. Chromosome mechanism in mitosis and meiosis. Genetic and non genetic variation; Mendelian inheritance; Linkage and crossing over. Mechanisms of sex determination. Sex linked inheritance

**ZOO 211      INVERTEBRATE ZOOLOGY**

Identification, phylogeny, biology and economic importance of Protozoa, Porifera, Platyhelminthes Aschelminthes, Annelida, Mollusca, Arthropoda and Echinodermata.

**MCB 211      GENERAL MICROBIOLOGY 1**

**1<sup>ST</sup> SEMESTER PRE REQUISITE BOT 111/ BOT 121 / ZOO 111 / ZOO 121**

History of Microbiology. Tools and Techniques used in Microbiology. Structures and comparison of prokaryotic and eukaryotic cells. Morphology, life cycle and economic importance of bacteria, fungi, protozoa, algae and viruses. Nutrition, metabolism and growth of microorganisms including effects of environmental factors on growth, survival, inhibition and death of microorganism.

**BOT 222      HIGHER PLANTS**

A survey of the evolution, morphology, ecology and importance to man of the Gymnosperms and Angiosperms. A study of the major types of development of embryo in Angiosperms and Gymnosperms.

**BIO 222      ECOLOGY (POPULATION AND ENVIRONMENTAL)**

Conservation; Principles Problems. Policies, strategies. Demographic characteristics of natural populations. Techniques of estimating population size, birth rate, death rate, density growth and regulation of populations. Population theories. Aquatic and terrestrial ecosystems of Nigeria, Physical and chemical properties. Faunal adaption for life inter-relationship (food chains/weds) conservation of faunal resources of Nigeria.

**MCB 222      GENERAL MICROBIOLOGY II**

**PREREQUISITE BOT 111 /BOT 121 /ZOO 111/ ZOO121**

Transfer and change of genetic information in bacteria: mutations, transduction, transformation conjugation and plasmid. Ecology of microbes. Microbiology of soil, water, food and diary products. Industrial fermentation. The normal flora of human body, microorganism and human diseases. Elements of immunology and virology.

**ZOO 222 COMPARATIVE ANIMAL PHYSIOLOGY**

Principles of physiological adaptations; Homeostasis, Nervous, Neuromuscular and Endocrine systems, Nutrition and Digestion; Blood and Circulation; Reproduction; Excretion, Respiration and Osmoregulation.

### **300 LEVEL**

#### **BOT 317 TAXONOMY AND MORPHOLOGY OF FUNGI**

##### **PRE-REQUISITE BOT 111 / BOT 121**

Structure, taxonomy, reproduction and ecological characteristics of fungi, classes of fungi; basic principles of fungal physiology, germination and dormancy, growth and spore structure, spore reproduction and dissemination; importance of fungi, fungal pathogens of animals and man, fungal interactions with other micro-organisms e.g. algae, higher plants, edible mushrooms, yeast, fungi in industries. Fungal nutrition carbon, nitrogen, minerals and vitamins requirements

#### **BIO 312 BIOLOGICAL TECHNIQUES**

Basic research techniques in Biological Sciences including, manometry, spectrophotometry, chromatography, isotope methods, advanced microscopy, staining and preparation of permanent slides including the use of microtome. Sterilization and culture techniques. Presentation and interpretation of biological data. Scientific writing.

#### **MCB 313 MICROBIAL PHYSIOLOGY & METABOLISM**

A review of cell structure and functions. Growth and death of microorganisms. Anatomy of bacterial cell. Nutrition in yeast mould and bacteria in relation to energy metabolism and biosynthetic activity. General aspects of energy yielding processes. Biological oxidation and the electron transfer system. Enzymes action and control in micro organism. Microbial interactions in natural and controlled systems. Introduction to chemotherapy. Introduction to microbial variations and heredity; mutation, transduction, transformation and conjugation.

#### **BIO 310 BIOSTATISTICS**

Population and samples, probability distribution, normal poisson and binomial distribution, mean, standard deviation, standard error, curve fitting, chi-test, students test, F – distribution, regression, correlation. Analysis of variance (One way and two ways).

#### **MCB 311 IMMUNOLOGY AND IMMUNOCHEMISTRY**

##### **PRE-REQUISITE MCB 221 / MCB 222**

The immune response. Cells and tissues of the immune system. Antigen-antibody reactions, antibody structure and synthesis, cellular and acquired immunity. Immunoglobulins. Immunological tolerance and immune suppression. Hypersensitivity: antibody mediated and cell mediated. Allergy, Graft and surgical grafting. Histocompatibility and transplantation antigens. Autoimmunity. Genetics of immunoglobulins and of the immune response. Pathogenesis Biochemical methods of assay; ion-exchange, electrophoresis (ELISA, RIA) Agglutination, Precipitation, Spectrophotometry, chromatography etc. The prophylactic and therapeutic applications of immunology.

### **MCB 312 BACTERIOLOGY**

#### **PRE-REQUISITE MCB 211 / MCB 222**

Detailed study of bacteria, Microscopy, growth and nutrition of bacteria. Cultural, morphological, structural and biochemical characteristics of bacteria (to include bacterial metabolism, biosynthesis and catabolism) genetic recombination in bacteria with emphasis on genetic engineering. Microbial enzymes. Laboratory exercises on the culture, morphology, structure and physiology of bacteria. Effect of detergents and antibiotics on bacteria. Bacterial classification. Chemotherapeutic agents.

### **MCB 317 INDUSTRIAL MICROBIOLOGY**

#### **PRE-REQUISITE MCB 211 / MCB 222**

Introduction to industrial microbiology, definition and scope, culture in industrial fermentation, Nutrition and metabolism in micro-organisms of industrial importance. Biochemical pathways, the exploitation of micro organisms. Yeasts, moulds, bacteria and actinomycetes in life processes with particular emphasis on processes on food and brewery industries. Yeasts as food. Micro-organisms in industrial effluent and spoilage of industrial materials. Introduction to microbial genetics.

### **MCB 399 INDUSTRIAL ATTACHMENT**

This course is aimed at exposing the students to the practical aspects of the course. It involves visits and attachments to research institutes and establishments throughout the country to understudy scientists working in the relevant areas of food environment, soil and medical microbiology. The minimum period of industrial attachment is six months.

### **MCB 314 FOOD MICROBIOLOGY**

#### **PRE-REQUISITE MCB 211 / MCB 222**

Sampling and enumeration of micro-organisms in foods. Ecology of food borne microorganisms. Characteristic and activities of bacteria, yeast and moulds associated with foods. Factors affecting microbial activities in foods. Microbiology of sanitation and sanitary practices as related to food and food processing. Microbiology quality assurance in food processing standards, specifications hazard analysis (HACCP) etc. food fermentation, food poisoning and food preservation.

### **MCB 315 VIROLOGY**

#### **PRE-REQUISITE BOT 111 / BOT 121/ MCB 221 / MCB 222**

Origin and nature of viruses, structure and classification of viruses, viral replication of chemical and physical properties of bacteriophages and plant viruses. Transmission of viral diseases. Interference phenomenon, viral genetics and immune response including viral vaccines. Systematic virology, picorna viruses. Paramyxo viruses, orthomyxo viruses, Toga viruses, Corona viruses, Reo viruses, Rhado viruses, Arena viruses, Retro viruses. Adenoviruses, herpes viruses, pox viruses, Epstein Barr viruses, Hepadnaviruses, paploma viruses, polyma viruses, Rota viruses, Lossa viruses, Parvoviruses Bunya viruses.

#### **400 LEVEL**

##### **BIO 410 MOLECULAR BIOLOGY**

Genetic elements of DNA. Mutation and recombination of DNA. DNA replication and its control. RNA transcription, structure and function of RNA. Protein synthesis. The genetic code. Introduction to recombination DNA technology DNA technology, genetically related animal physiological abnormalities.

##### **MCB 411 PATHOGENIC MICROBIOLOGY 1**

###### **PRE-REQUISITE MCB 312**

Concept of normal flora. Principles of infection. Immunity and serology. Host-parasite relationships Aetiology, epidemiology, pathogenic mechanisms (virulence factors) of infections process, methods of isolation of pathogenic organisms. Nature of epidemiological investigation, herd immunity, Latency of infection. Multifactorial system of epidemics. International control of infectious diseases.

##### **MCB 412 ENVIRONMENTAL MICROBIOLOGY**

Microbiology of sanitation and sanitary practices as related to contamination of air, water and food. Microbiology of water supply and sewage treatment enteroputative concept and importance. Bio degradation of materials. Pollution in the oil industry and its control Aero biology; Sources, importance and control of air borne micro organism. Microbes in their natural environment. Microbial population and community dynamics. The role of micro-organism in prospecting recovery and degradation of petroleum products.

##### **MCB 413 MICROBIAL GENETICS**

###### **PRE-REQUISITE BIO 211 / MCB 313**

The nature of bacterial variations. Genetic transfer; transduction and conjugation. Sex factor and extra chromosomal factors in bacteria. Plasmids, episomes, Recombination DNA techniques. Industrial microorganisms.

##### **MCB 414 INDUSTRIAL MICROBIOLOGY 11**

###### **PRE-REQUISITE MCB 317**

Microbiological and chemical aspect of fermentation with special emphasis on processes in the pharmaceutical industries. Techniques for the production of nutrients, microorganisms as reagents in quantitative analysis selection of test organisms for assays of amino acids, vitamins and screening methods employed in the search for new antibiotics. Industrial methods for the production of vaccines. Quality control of pharmaceutical products and microbiological standards and specifications. Patent and patency.

##### **MCB 416 SEMINAR**

Current topics relevant to the science of microbiology and related areas (Pure and applied) are prepared by the student and presented to the class. This course is aimed at giving the students a good knowledge on how to prepare and deliver seminar papers.

**MCB 417 TOXICOLOGY**

Definition and scope of toxicology. Principles of toxicokinetic studies. Mechanism of drug toxicity, management of acute drug poisoning, plants, bacterial and animal poisons. Solvent poisoning, pesticides, herbicides, radiation toxicology. Air borne poisoning, heavy metals and chelating agents. Food additives, immunotoxicity associated with exposure to chemicals. Genetic effects of chemicals in human population. Guide to short term tests for detecting mutagenic and carcinogenic compounds.

**ZOO 415 APPLIED PARASITOLOGY****PRE-REQUISITE ZOO 211 / ZOO 222**

The origin and evolution of parasites. Principle of parasitism. Types of parasites. Ecology of parasitism. Host-parasite relationship. Host-specificity, Immunological phenomena. Physiology of animal parasites. The biology, life cycle and pathogenicity of important parasites of man and animals: Protozoans and helminthes. Control and economic importance of parasites with particular reference to West Africa.

**MCB 421 PATHOGENIC MICROBIOLOGY II****PRE REQUISITE MCB 411**

Structure, pathology and pathogenesis. Laboratory diagnosis and procedures, prophylactic / therapeutic procedures. Control and prevention of selected pathogenic bacteria, This includes gram-positive cocci (streptococci and staphylococcus) Enterobacteriaceae and other related gram-negative bacteria. Bacteria related viruses (Chlamydia, Rickettsia and Mycoplasma) Zoonotic bacteria especially those prevalent in Africa and Nigeria.

**MCB 422 ANTIMICROBIAL AGENTS. AND CHEMOTHERAPY****PRE-REQUISITE MCB 211 / MCB 222**

History and development of antimicrobial agents; Types and nature of microbial agents. Natural and synthetic antimicrobial agents: examples of both types will be considered in detail. Mode of action and development of drug resistance. General principles of chemotherapy. Assay of antimicrobics, susceptibility tests and other tests. Some specific diseases and their treatments will be considered.

**MCB 423 PATHOGENIC FUNGI**

Structure, classification and reproduction of pathogenic fungi. Laboratory methods for the study of pathogenic fungi. Detail study of the pathology, immunology for superficial, subcutaneous and systemic mycoses and actinomycetes will be made. Particular attention would be focused on those prevalent in Nigeria and Africa. Toxic metabolites of fungi and toxic mushrooms will also be considered.

**MCB 424 SOIL MICROBIOLOGY****PRE-REQUISITE MCB 221 / MCB 222**

Soil microflora, sampling enumeration and identification of soil micro organism with special emphasis on methods of study including nitrogen fixation, Carbon cycle etc. Microbial transformation of nutrients in soil. Degradation of complex materials (e.g. lignin, hemicelluloses, plastics and pesticides etc.), by soil microorganisms. Petroleum



microbiology with emphasis on the use of microbiology in the exploration for oil. Microbial degradation of petroleum products. Microbial enzymes and proteins. Microorganisms and soil fertility. Effects of soil condition and soil management on soil microorganisms. Mycorrhiza formation and importance. Soil microorganisms as pathogens and spoilage agents.

**MCB 425 PROJECT**

A limited research project conducted under the supervision of the Department, aimed at inculcating in students the investigation approach to science.

## DEPARTMENT OF CHEMICAL SCIENCE

### LIST OF STAFF – QUALIFICATION AND DESIGNATION

NAME OF STAFF	QUALIFICATION	DESIGNATION
1. PROF. UKWUEZE	BSc (Nsukka) MSc (New York) PhD (Lagos)	PROFESSOR/HOD
2. PROF. ORJIEKWE, C.L.	BSc (Benin) MSc, PhD (Ilorin)	PROFESSOR
3. ADENIYI, S.A.	BSc, MSc	LECTURER
4. ADELEKE, A.	BSc, MSc (FUTA)	ASSISTANT LECTURER
5. JATTO, WA.	BSc, MSc	ASSISTANT LECTURER
6. OLATIDOYE, P.	BSc, MSc	ASSISTANT LECTURER
7. OBI, T.E.	BSc, MSc	ASSISTANT LECTURER

### 1. ADMISSION REQUIREMENTS

The Department of Chemical Sciences offers programmes in Chemistry leading to the award of the degree: BSc. (Hons) Chemistry

#### Entry Requirements

Candidates are admitted into the B.Sc. Degree programmes of the Department in any of the following three ways: through University Matriculation Examination(UME), by Direct Entry, or through Inter-University Transfer.

#### (i) University Matriculation Examination (UME) Entry Mode:

In addition to an acceptable pass in UME, candidates seeking admission into B.SC degree programme in Chemistry must have at least ordinary level credit passes in five (5) SSCE/GCE/NECO subjects including English Language, Mathematics, Physics, Chemistry and any other subject at not more than two sittings.

In addition to (i) above, candidates are required to submit themselves for a written examination and oral interview before admission is finally offered to short-listed qualified candidates.

(ii) **Direct Entry mode**

- (a) Candidates seeking direct admission to study Chemistry must have two Advance level passes in the relevant science subjects including Mathematics, Physics and Chemistry. In addition, such candidates must have satisfied the 'O' level requirement.

**2. CONTINUOUS ASSESSMENT**

- (a) The grading of a theory course shall consist of continuous assessment (30%) and examination (70%) while the grading of a whole practical course shall consist of continuous assessment (50%) and examination (50%).
- (b) The pass mark for every course is 45%.
- (c) The grading system is as follows:

Scores	Grade	Grade Point
70 – 100	A	5
60 - 69	B	4
50 – 59	C	3
45 – 49	D	2
0 - 44	F	0

- (d) Students' results are prepared at the end of every semester reflecting raw marks and grades, total units taken, total units passed and total units failed.
- (e) At the end of every session a summary of students' results is prepared at each level, reflecting the units taken during the session, the cumulative units taken, the cumulative units passed, the CGPA and remarks of proceeding, summer, probation, repeat or withdrawal from the degree programme as the case may be.
- (f) At the end of the degree programme students results are prepared reflecting details of the session's performance, including list of courses failed for the session as well as the cumulative performance including the degree classification (where applicable).
- (g) Both the sessional GPA and CGPA are calculated using the weighted grade point. The weighted grade point for the course is the product of the point and units for the course. Thus a student who scores 75% in a three-unit course (say CHM 111) has a grade point of 5 and a weighted grade point of  $3 \times 5 = 15$  for that course.

Thus the Sessional GPA is calculated from the formula:

$$\text{GPA} = \frac{\text{Total Weighted Points for all courses in the session}}{\text{Total Credit Units taken for that session}}$$

Similarly, The CGPA is calculated from the formula:

$$\text{CGPA} = \frac{\text{Total Weighted Points for all courses in the sessions}}{\text{Total Credit Units taken for that sessions}}$$

### **Absence From Examination**

- (a) Candidates must present themselves at the examinations for courses for which they have registered.
- (b) Candidates who fail to do so for reasons other than certified ill-health or accident or for any other reason acceptable to the Departmental Board (subject to Dean's approval) shall be deemed to have failed that examination (i.e would have F grade).
- (c) For the avoidance of doubt, failure to take cognizance of changes in the examination timetable and such lapses on the part of the candidates shall not be accepted as reasonable excuse for absence.
- (d) A candidate who falls ill during an examination shall report to the Director of the University Health Services who shall subsequently submit a report in writing to the Head of Department through the Dean of the College after treating the candidate.
- (e) A candidate who is unable to take an examination on grounds of illness confirmed by the University Director of Health Services, on grounds specified above may be the University Director of health Services, on grounds specified above may be allowed to sit for the examination at the next available opportunity.
- (f) When necessary on ground of ill health and certified by the Director of Health Services, an examination can be taken in the hospital or related location as approved by the Dean and invigilated.

### **3. Calculation of GPA and CGPA**

- (a) The grading of a theory course shall consist of continuous assessment (30%) and examination (70%) while the grading of a whole practical course shall consist of continuous assessment (50%) and examination (50%).
- (b) The pass mark for every course is 40%.
- (c) The grading system is as follows:

### **4. CLASS OF DEGREE**

At the end of the degree programme, students results are prepared reflecting details of the session's performance, including list of courses failed for the session as well as the cumulative performance including the degree classification according to the following scheme:

<b>CGPA</b>	<b>Class of Degree</b>
4.50 – 5.00	First Class Honours
3.50 - 4.49	Second Class Honours (Upper Division)
2.40 – 3.49	Second Class Honours (Lower Division)
1.50 – 2.39	Third Class Honours
1.00 – 1.49	Pass
Less than 1.00	Fail

### **Conferment of Degree**

After the recommended examination results from the College Board shall have been approved by the University Senate, successful candidate shall be admitted either in person or in absentia to the degree of the University at the convocation for the award of degrees, and thereafter issued with certificates under the ommon seal of the University.

### **LIST OF COURSES**

#### **100 LEVEL**

#### **1<sup>ST</sup> SEMESTER**

<b>Course Code</b>	<b>Course Title</b>	<b>Credit Units</b>
CHM 111	General Physical Chemistry	3
CHM 112	General Organic chemistry I	2
MAT 111	Trigonometry & Algebra	3
MAT 112	Calculus	3
PHY 111	General Physics I (Mechanics, Thermal Physics & Properties of Matter)	3
PHY 112	Vibrations, Wave & Optics	3
GST 111	Use of English I	2
GST 112	Nigeria History & Culture	2
	<b>Total</b>	<b>21</b>

#### **ELECTIVES COURSES**

#### **1<sup>ST</sup> SEMESTER**

<b>Course Code</b>	<b>Course Title</b>	<b>Credit Units</b>
CSC 111	Introduction to Computer & Basic Programming	3
BOT 111	Introduction to Plant Science	3
ZOO 111	General Zoology	3

#### **2<sup>ND</sup> SEMESTER**

<b>Course Code</b>	<b>Course Title</b>	<b>Credit Units</b>
CHM 121	General Inorganic Chemistry	3
CHM 122	General Organic Chemistry II	2
CHM 123	General Laboratory Chemistry	3
MTH 121	Statistics/Geometry	3
MTH 122	Differential Equations	3
PHY 121	Electromagnetism & Modern Physics	3
PHY 100	Practical Physics	4
GST 121	Entrepreneurial Studies	2
GST 122	Philosophy, ethics, Logic & Law	2
GST 123	History of Science	2
	<b>Total</b>	<b>27</b>

**Note:** Students in 100 Level B.Sc Chemistry Programme offer the same set of courses.

**200 LEVEL  
1<sup>ST</sup> SEMESTER**

Course Code	Course Title	Credit Units
CHM 211	Basic Organic Chemistry	4
CHM 212	Basic Physical Chemistry	2
ICH 213	Industrial Management I	2
CHM 214	Analytical Chemistry I	3
CHM 215	Practical Chemistry I	3
ICH 216	Industrial Chemical Process	3
PHY 215	Atomic & Nuclear Physics	3
<b>Total</b>		<b>20</b>

**2<sup>ND</sup> SEMESTER**

Course Code	Course Title	Credit Units
CHM 221	Basic Inorganic Chemistry	3
ICH 222	Colour Chemistry & Technology I	2
ICH 223	Industrial Raw Material Resources Inventory	3
CHM 224	Introduction to Environmental Chemistry	3
CHM 225	Practical Chemistry II	3
CHM 226	Heterocyclic Chemistry	3
MTH 223	Statistics	3
<b>Total</b>		<b>23</b>

**ELECTIVES COURSES**

**1<sup>ST</sup> SEMESTER**

Course Code	Course Title	Credit Units
MTH 211	Linear Algebra	3
MTH 212	Probability Distribution	3
MTH 221	Numerical Analysis	3
CSC 212	Symbolic Programming in Fortran	3
CSC 224	Human/Computer Interface	3
PHY 212	Thermal Physics	3
PHY 224	Electromagnetism & Electronics	3
BCH 211	Introductory Biochemistry	3

**300 LEVEL  
1<sup>ST</sup> SEMESTER**

Course Code	Course Title	Credit Units
CHM 311	Aromatic & Alicyclic Chemistry	3
CHM 312	Polymer Science	3
CHM 313	Introduction to Spectroscopy	2
CHM 314	Separation Methods	3
CHM 315	Practical Organic Chemistry	2
CHM 316	Physical Chemistry	3

CHM 317	Soil Chemistry	2
	<b>Total</b>	<b>18</b>

## 2<sup>ND</sup> SEMESTER

Course Code	Course Title	Credit Units
	(SIWES PROGRAMME)	6
	<b>Total</b>	<b>6</b>

Recommended Elective For Pure chemistry Students:

## 400 LEVEL

### 1<sup>ST</sup> SEMESTER

Course Code	Course Title	Credit Units
CHM 411	Organic Reaction Mechanisms	4
CHM 412	Natural Products	2
CHM 413	Molecular Spectroscopy	2
CHM 414	Advance Chemical Kinetics	3
CHM 415	Preparative Organic Chemistry	3
CHM 416	Radiochemistry and Nuclear Chemistry	3
CHM 417	Organometalic Chemistry	3
CHM 418	Inorganic Reaction Kinetics	
	<b>Total</b>	<b>28</b>

## 2<sup>ND</sup> SEMESTER

Course Code	Course Title	Credit Units
CHM 421	Coordination Chemistry	3
ICH 422	Food Processing Technology	3
ICH 423	Mineral Processing Technology	3
CHM 424	Analytical chemistry	2
CHM 425	Environmental Chemistry II	2
CHM 426	Diffraction Methods	2
ICH 427	Deffraction Methods	2
ICH 428	Detergent and Cosmetic Chemistry	2
CHM 429	Colour Chemistry and Statistical Thermodynamics	3
ICH 433	Petroleum Chemistry	2
CHM 434	Seminar	2
CHM 499	Research Project	6
	<b>Total</b>	<b>23</b>

## **COURSE OUTLINE**

### **100 LEVEL**

#### **CHM 111: General Physical Chemistry (3 Credits) 1<sup>ST</sup> Semester**

Atoms, Dalton's atomic theory, atomic masses. Fundamental particles of atom. Atomic structure. Modern electronic theory of atoms. Periodicity of the elements. Mole concept. Chemical formulas, equations and calculations. States of matter: gas, liquids and solids. Energetics and thermochemistry. Chemical kinetics, equilibrium and electrochemistry. 45h (T)

#### **CHM 112: General Inorganic Chemistry I (2 Credits) 1<sup>ST</sup> Semester**

Historical survey of the development and importance of Organic Chemistry. Nomenclature and classes of organic compounds. Homologous series. Functional groups, isolation and purification of organic compounds. Qualitative and quantitative organic chemistry. Resonance and inductive effects. Stereochemistry. 45h (T).

#### **CHM 121: General Inorganic Chemistry (3 Credits) 2<sup>ND</sup> Semester**

Periodic table and periodic properties. Chemical bonding and theory. Hybridization. Structure of solids. The chemistry of selected representative elements. Qualitative Analysis. 45h (T).

#### **CHM 122: General Laboratory Chemistry (2 Credits) 1<sup>ST</sup>/ 2<sup>ND</sup> Semester**

Theory and Practice qualitative chemical analysis, acid-base, oxidation-reduction, precipitation and complexometric titrations, Gravimetric analysis. Calculations, data analysis and organic analysis for elements in Group II, IIIA, IIIB, IV, Chemical analysis, etc. 15h (T) 90h (p).

#### **CHM 123: General Organic Chemistry I (2 Credits) 2<sup>ND</sup> Semester**

Polar functional group chemistry. Alcohols and phenols. Aldehydes and Ketones. Carboxylic acid and derivatives (anhydrides, acid halides). Amino acids, fats and oils carbohydrates and natural products.

### **200 LEVEL**

#### **CHM 211: Basic Organic Chemistry (3 Credits) 1<sup>ST</sup> Semester**

Isomerism and conformation, Enantiomorphs, Diastereoisomers, mesoforms, racemic forms. Optical activity. Inductive and resonance effect. Activation energy, free radical substitution reaction in alkanes. Aromaticity. Basic organic reactions e.g addition, free radical elimination and condensation reaction etc. Fats and oils, soaps and detergents. Amino acids proteins and carbohydrates. Test for functional groups. Use of simple techniques for purification e.g. recrystallization. Preparation of simple esters, aldehydes, ketones and amines. Hydrolysis of esters. 30h (T) 45h (P) PRE: CHM 112 OR "A" Level.

#### **CHM 212: Basic Physical Chemistry (3 Credits) 1<sup>ST</sup> Semester**

States of matter. Equations of states. Kinetic theory of gases. Molecular diameter of gases. Collision frequency and distribution of molecular velocity. Phase changes and liquefaction of gases. Introductory Chemical Kinetics (reaction rate, order of reactions,



molecularity, methods of measuring reaction rates). Detailed derivation and application of the rate expression for 1<sup>ST</sup>, 2<sup>ND</sup> and 3<sup>RD</sup> orders of reactions. Factors influencing reaction rate. Activation energy, Arrhenius equation and its application. Elementary treatment of first reactions and the theories of reaction rates. 30h (T) 45h (P) PRE: CHM 111 or 'A' Level.

**ICH 213: Basic Organic Chemistry (3 Credits) 1<sup>ST</sup> Semester**

Organizational structure in the industry, Management functions, order and chain of command in the work place. Management theories. Industrial law, legislation in wages, trade marks and patents.

**CHM 214: Analytical Chemistry I (3 Credits) 1<sup>ST</sup> Semester**

Theory of errors, statistical treatment of data. Chemical methods of analysis including volumetric, gravimetric and physicochemical methods. Aqueous solutions. Introduction to separation methods of analysis. Instrumental techniques of analysis 30h (T) 45h (P) PRE: CHM 111 & CHM 122 or 'A' Level.

**CHM 215: Practical Chemistry I (3 Credits) 1<sup>ST</sup> Semester**

Qualitative analysis for anions and cations. Experiments in kinetics, surface Chemistry and thermochemistry. Test for functional groups. Use of simple techniques for purification e.g recrystallization, precipitation, steam distillation, fractional distillation. Preparation of simple esters, aldehydes, ketones and amines. Hydrolysis of esters. 90h (P).

**ICH 216: Industrial Chemical Process I (3 Credits) 1<sup>ST</sup> Semester**

Survey of Nigeria's Industries and their raw materials requirements. Mineral Chemistry. Fossils and their uses; Plant and animal; products. Nuclear, solar and Hydrocyanic sources of energy. Potentials and applications of locally available raw materials as industrial feedstocks. Production of primary intermediates and synthesis of industrial organic chemical polymers, adhesives, dyes, explosives insecticides, herbicides, flavouring agents and pharmaceuticals, fermentation process. Heat transfer and mass transfer processes. Unit operations. Some equipments for chemical technology. 45h (T).

**CHM 221: Basic Inorganic Chemistry (3 Credits) 2<sup>ND</sup> Semester**

Simple consideration of molecular orbital and valence bond theories. Ionic lattices and molecular shapes. Chemistry of hydrogen, noble gases, boron and aluminum, carbon and silicon, nitrogen and phosphorus; oxygen and sulphur; the halogens. Introduction to organometallic chemistry. 30h (T) 45h (P) PRE: CHM 121 or 'A' Level.

**ICH 222: Colour Chemistry & Technology I (2 Credits) 2<sup>ND</sup> Semester**

Colour and constitution, chemistry and properties of dyes and pigments. Classification of dyes and pigments. Some natural dyes and pigments (emphasis on those obtained locally), dyeing of natural and synthetic fibers. Colour fastness properties of dyes. Quality control procedures; industry based on colour chemistry.

**ICH 223: Industrial Raw Material Resources Inventory (3 Credits) 2<sup>ND</sup>**

### **Semester**

Survey of Nigeria's Industries and their raw materials requirements. Mineral Chemistry. Alternative local sourcing of raw materials for Nigerian industries. The production of fine and intermediate chemicals from local sources.

#### **CHM 224: Introduction to Environmental Chemistry I (4 Credits) 2<sup>ND</sup> Semester**

Components of the total environment: air, water, land: their natural forms. Causes of environmental impairment; environmental pollution: Sources and types of pollution. Effects of pollution. Water and wastewater characteristics; and their measurements. WHO standards. Industrial water supply. Introduction to wastewater treatment. Solid waste: effects and solid waste management. 45h (T) PRE CHM 122

#### **CHM 225: practical Chemistry II (2 Credits) 2<sup>ND</sup> Semester**

Selected experiments in physical, inorganic, analytical and organic chemistry.

#### **CHM 226: Heterocyclic Chemistry (3 Credits) 2<sup>ND</sup> Semester**

Stereochemistry and polyfunctional compounds; Stereochemistry of compounds with asymmetric carbon-biphenyls, R<sub>2</sub>; specification of configuration; Important methods of preparation and reaction and reactions of halogen acids, hydroxy-acids, dicarboxylic acids, keto-acids, unsaturated acids, lactones, ketones and epoxides; importance in synthesis of some organic compounds. Simple heterocompounds containing one, two or three heteroatoms, nomenclature, synthesis, simple reactions. 45h (T)

### **300 LEVEL**

#### **CHM 311: Aromatic and Alicyclic Chemistry (3 Credits) 1<sup>ST</sup> Semester**

Benzene: Natural occurrence, properties, stability of benzene. Canonical structures of benzene – Kekulé and Dewar structures. Aromaticity: - Classical treatment, comparison of aromatic and non aromatic systems. Polynuclear Aromatic Hydrocarbons (PAH): Types, occurrence, canonical forms. Reactivity of different positions in phenanthrene, naphthalene and anthracene. Important Aromatic compounds: - Amines, Amides, acids phenols, aldehydes, ketones and diazonium compounds and derivatives. Natural sources, synthesis and properties. Nucleophilic substitution reaction in aromatic systems. Alicyclic compounds: - Types of compounds. Nomenclature of polycyclic alkanes. Synthesis of alicyclic compounds and special reactions. Strain theory. Conformational analysis. 45h (T) PRE: CHM 211.

#### **ICH 312: Polymer Science (3 Credits) 1<sup>ST</sup> Semester**

Definition of basic terms. Outline sources of raw materials for polymers. Phase systems for polymerization. Step-growth polymerization. Free radical addition polymerization. Solubility and solution properties of polymers. Fibre forming polymers. 45h (T).

#### **CHM 313: Introduction to Spectroscopy (2 Credits) 1<sup>ST</sup> Semester**

The origin of spectra, wavelength, wave number, frequency and quantum relationships. Law of absorption. Principles and instrumentation of IR, UV, NMR, MS, Raman and Mossbauer spectroscopy. Interpretation of simple spectra. 30h (T) PRE: CHM 214.

**CHM 314: Separation techniques (2 Credits)1<sup>ST</sup> Semester**

Filtration, Batchwise and counter current techniques, sublimation, chromatography – column, paper and gas, ion- exchange techniques, Electrophoresis, Dialysis etc. 30h (T).

**CHM 315: Practical Organic Chemistry (2 Credits)1<sup>ST</sup> Semester**

Characterization and estimation of functional group in organic compounds. Preparation of derivatives of organic compounds. Application of spectroscopy for structural elucidation. Preparation of simple organic compounds including Grignard reaction. Diel-Alder reaction. 90h (P) PRE: CHM 215.

**CHM 316: Physical Chemistry (3 Credits)1<sup>ST</sup> Semester**

Phase equilibria, thermodynamics of phase equilibria with one, two, three components. Mixture of two liquids – ideal system and Raoult's Law. Partition coefficient. Clausius-Clapeyron equation: Bunsen's absorption coefficient; Henry and Raoult's law. Surface Chemistry: Colloids, emulsion and foams. Adhesion and surface tension. Contact angles and measurements. Application of contact angle, wetting etc. Surface tension of liquids, interfacial tensions.

**CHM 317: Soil Chemistry (2 Credits)1<sup>ST</sup> Semester**

Definition of soil. Classification; chemical properties of soil, Soil tests and analysis. Improvement in soil quality. 30h (T).

**CHM 320: Industrial Training (Siwes Programme) (6 Credits)2<sup>ND</sup> Semester**

**400 LEVEL**

**CHM 411: Organic Reaction Mechanisms (3 Credits)1<sup>ST</sup> Semester**

Studies of types and mechanisms involved in substitution, elimination, addition and rearrangement reactions of aliphatic and aromatic compounds and natural products. Oxidation and reduction mechanisms. Reactions of the intermolecular cyclisation types and stereochemical considerations. 30h (T) PRE: CHM 211 & CHM 311.

**CHM 412: Natural Products (2 Credits)1<sup>ST</sup> Semester**

Chemistry of Natural products of pharmaceutical importance: terpenoids, steroids, alkaloids, lipids and carbohydrates, antibiotics, flavonoids, prostaglandins and chlorophylls. General and specific methods of isolation, separation, purification and structure determination by chemical and spectroscopic methods. Biosynthesis of selected examples 30h (T) PRE: CHM 311

**CHM 413: Molecular Spectroscopy (3 Credits)1<sup>ST</sup> Semester**

Basic principles of spectroscopy, theory, basic instrumentation and application of microwaves, infrared and raman nuclear magnetic resonance (NMR), electron spin resonance (ESR), electronic, mossbauer spectroscopy and some latest spectroscopic techniques. 30h (T) PRE: CHM 313.

**CHM 414: Advance Chemical Kinetics (3 Credits)1<sup>ST</sup> Semester**

Review of first, second, and third order rate equations. Rate constants and equilibrium constants. Collision theory. Transition state theory, reaction mechanisms, catalysis and heterogeneous reactions, photochemical reaction mechanisms 45h (T).

**CHM 415: Preparative Organic Chemistry (2 Credits)1<sup>ST</sup> Semester**

Modern methods in the synthesis of organic compounds; selected literature examples to illustrate modern principles and approaches to synthesis, thermal, photolytic. Sigmatropic rearrangement. Fragmentations. 30h (T) PRE: CHM 311.

**CHM 416: Radiochemistry and Nuclear Chemistry (2 Credits)1<sup>ST</sup> Semester**

Natural radioactivity, fusion, fission, decay processes, nature of radiation, nuclear models, energetic of nuclear reaction. Principles and measurement of radioactivity. Applications of radioactivity. Radiation hazards. 30h (T).

**CHM 417: Organometallic Chemistry (3 Credits)1<sup>ST</sup> Semester**

Introduction to organometallic compounds of transition elements, classification of ligands, electron rule, bonding, preparation of organic transition metal compounds. Reaction and structures of organometallic compounds of transition elements. The organic chemistry of ferrocene and related compounds. The role of organometallic compounds on some catalytic reactions 45h (T).

**CHM 418: Inorganic Reaction Kinetics and Mechanisms (2 Credits)1<sup>ST</sup> Semester**

Redox reactions, mechanisms of electron transfer reactions: outer – and inner-transfer reaction mechanisms. Substitution reactions; General mechanism of square planar complexes of Pt (II) and other d metal ions. Substitution reactions in octahedral complexes 30h (T) PRE: CHM 321.

**ICH 419: Industrial Management (2 Credits)1<sup>ST</sup> Semester**

Industrial law, legislation in wages, trade marks and patents. An introduction to concepts and procedures of decision making in the management of business operations. 30h (T).

**CHM 421: Coordination Chemistry (3 Credits) 2<sup>ND</sup> Semester**

Definition. Historical development. Types of ligands, coordination numbers and structural aspects. Nomenclature, isomerism. Preparation, thermodynamic stability. Structure and bonding. Structural investigation by physical methods, magnetometry and spectroscopic techniques. Reactions of metal complexes. Application of coordination compounds 45 (T) PRE: CHM 321.

**ICH 422: Food Processing Technology (3 Credits) 2<sup>ND</sup> Semester**

Analysis of food samples for trace elements, vitamins, protein contents etc. Methods of food preservation. Studies of food poisoning and problems of nutrient deficiencies. 45h (T).

**ICH 423: Mineral Processing (3 Credits) 2<sup>ND</sup> Semester**

Mineral Ores. Occurrence, methods of concentration and beneficiation. Calcination, froth floatation, leaching, methods of refining, smelting, direct reduction, pyrometallurgy and hydrometallurgy. Differential thermal analysis. Methods of reforming and applications of the ores of iron, aluminum, tin, lead, zinc and uranium. 45h (T)

**CHM 424: Analytical Chemistry II (2 Credits) 2<sup>ND</sup> Semester**

Potentiometric and pH methods. Conductometric methods. Electrolytic methods. Radiochemical methods. Chromatography and solvent extraction. 30h (T) PRE: CHM 314 & CHM 214.

**CHM 425: Environmental Chemistry II (2 Credits) 2<sup>ND</sup> Semester**

Air pollution: The atmosphere, atmospheric gases; pollution from natural sources (volcanoes etc), human activities (burning of fossil fuel, automobile exhaust emissions etc); the ozone layer, atmospheric particulate matter. Environmental impact of air pollution: green house effects of air pollutants (NO<sub>x</sub> SO<sub>2</sub>, CO, particulate matter etc).

Air quality: ambient air quality standards. Emission standards. Air quality assessment/pollutant measurements. Control/treatment of industrial emissions. Waste Recycling: Introducing aspects of waste treatment for recycling (reuse). Liquid wastes (sewage, industrial effluents) treatment for reuse.

Bio-degradable organic wastes for composition to serve as organic manure 60h (T)  
Chemistry of natural waters, redox equilibria and complex ion in natural waters. Catalysis by micro-organism in water. Water analysis. 30h (T) PRE: CHM 225.

**CHM 426: Diffraction Methods (2 Credits) 2<sup>ND</sup> Semester**

X-ray and Neutron diffraction in structure elucidation. Powder and single X-ray diffractometers. Bragg's law, Bravais lattice. Interpretation of diffraction patterns and application in structure elucidation.

**ICH 427: Detergent and Cosmetic Chemistry (2 Credits) 2<sup>ND</sup> Semester**

Survey of classes of detergents, surfactants. Preparation, properties and industrial applications. Definition and classification of cosmetics. Preparation, properties and application of frequently used cosmetic products e.g face powder, cream, lotion, hair care products, lipstick, legal cosmetics. 30h (T).

**ICH 428: Colour Chemistry and Technology II (2 Credits) 2<sup>ND</sup> Semester**

The chemistry and theory of dyeing. Chemistry and application of reactive dyes. Preparation and dyeing of man-made fibres. Dyeing machinery, printing, colouring matter for food, drugs and cosmetics. Dyes used in paper industry and color photography. 30h (T).

**CHM 429: Quantum Chemistry and Statistical Thermodynamics (3 Credits) 1<sup>ST</sup> Semester**

Postulates of quantum mechanics, operators, angular momentum. Solution of hydrogen atom problem, theory of atomic spectra, self consistent field theory. Computational aspects. Perturbation and variation methods. Probability distribution laws. Statistical basis of entropy. Molecular partition functions: evaluation and applications. The

canonical ensembles. Some applications of statistical thermodynamics. Maxwell-Boltzmann of velocities, heat capacities, equipartition of energy, equilibrium state. 45h (T).

**ICH 431: Industrial; Methodology and Quality Control (3 Credits)  
1<sup>ST</sup> Semester**

Measurement and evaluation of work. Time and methods of studies. Reliability theory and quality control. Production and inventory control. Resource allocation. GPA principles, economics and accounting. Ergonomics design of machine system. Chemical and Technology, quality of textiles, plastics, dyes, detergents, food and cosmetics. 45h (T).

**ICH 432: Polymer Technology (2 Credits) 1<sup>ST</sup> Semester**

Large scale industrial polymerization processes. Co-polymers. Mechanical properties, rheology, polymer processing, injection extrusion, calendaring, compression and extrusion moulding of thermoplastics. Important methods of processing thermosets. Polymer and morphology. 30h (T).

**ICH 433: Petroleum Chemistry (2 Credits) 2<sup>ND</sup> Semester**

Composition, classification and properties of petroleum gases. Processing of petroleum and petroleum gases. Preparation and chemical transformation of primary petrochemicals.

**ICH 434: Seminar (2 Credits) 1<sup>ST</sup>/ 2<sup>ND</sup> Semester**

Literature search, presentation of seminar on comprehensive literature reviews of selected topics of research interest. 90h (T)

**CHM 499: Research Project (5 Credits) 1<sup>ST</sup>/ 2<sup>ND</sup> Semester**

Experimental investigation into a chemical problem carried out independently by the students under the guidance of an academic member of staff 225h (P).

**DEPARTMENT OF COMPUTER SCIENCE & IT/MATHS**

**DEPARTMENT OF COMPUTER SCIENCE & INFOTECH/MATHS  
DEPARTMENTAL STAFF LIST**

**ACADEMIC STAFF**

<b>S/N</b>	<b>NAME OF STAFF</b>	<b>QUALIFICATION</b>	<b>STATUS</b>	<b>DISCIPLINE</b>
1.	Mrs. R.I. Izevbizua	M.Sc.	Asst Lect./HOD	Comp Sc
2.	Prof. Longe Anyanwu	PhD	Prof	Comp Sc
3.	Dr. D. Allenor	PhD	Snr Lect.	Comp Sc
4.	Mr. H. Omorogbe	M.Sc.	Lect.  II	Comp Sc
5.	Mr. O. Uriri	M.Sc.	Asst Lect	Comp Sc
6.	Mr. O. Omorogiuwa	M.Sc.	Asst. Lect.	Comp Sc
7.				
8.	Mr. K. Ohaigu	M.Sc.	Asst. Lect	Comp Sc
9.	Mr. V. Amenaghawon.	M.Sc.	Asst. Lect.	Comp Sc
10.	Mr. M. okochi	B.Eng.	Grad. Asst.	Comp Eng.
<b>NON-ACADEMIC STAFF</b>				
11.	M.r N.O. Amasowomwan	B.Eng.		Technologist II
12.	Mr. P.O. Yesufu	Advanced Level Accounting, Professional Cert in Computer .Sc		Computer Demonstrator

**Preamble**

The department of computer science and information technology/mathematics offers four major subject areas namely:

- Computing and intelligent systems
- Computational analysis, design and applications
- Data communication and information systems
- Operations research and network systems

These lead to the award of Bachelors degree in computer science and information technology.

Philosophy and objectives of the department of computer science

Philosophy

The philosophy of the Bachelor of computer science Degree in computer science which includes, contribution to knowledge and material development through moral, academic, physical and entrepreneurial training of first-rate future leaders in technological and social-economic development in Nigeria and Edo State in particular. Accordingly, emphasis is placed on:

- (i) Training of the student to have interest in and capacity for the application of scientific principles.
- (ii) The application of scientific principles and methods towards solving societal problems.
- (iii) The development in the students of the capacity for innovation and improvisation of materials from local resources.

## **Objectives**

The objective of the department is to provide suitable and qualitative computer education in the challenging world of scientific evolution.

The department focus on constant evolvments in computer science particularly in the field of information Technology, to structure course, thereby, covering a broad area and providing opportunity towards specialization in specific areas.

Entry requirements

Candidates are admitted into the B.Sc. Degree programmes of the department in any of the following three ways:- through University Matriculation examination (UME), by Direct Entry, or through Inter-University Transfer.

- (i) **University Matriculation Examination (UME) Entry Mode:**  
In addition to an acceptance pass in UME, candidates seeking admission into B.Sc. degree programme in computing must have at least ordinary level credit passes in five (5) SSCE/GCENECO subjects including English Language, Mathematics, Physics, and any other subjects at not more than two sittings.  
In addition to (i) above, candidates are required to submit themselves for a written examination and oral interview before admission is finally offered to short-listed qualified candidates.
- (ii) **Direct Entry Mode**
  - (a) Candidates seeking direct admission to study computer science must have two advance level passes in the relevant science subject including Mathematics, Physics. In addition, such candidates must have satisfied the 'O' Level requirement.
  - (b) Candidates who posses good Diploma Certificates in Computer science can be offered direct entry into the Department to read B.Sc. (Hons) Degree.
- (iii) **Inter-University Transfer**  
Candidates wishing to transfer into the Department from another University must have.
  - (a) Obtain and fill the inter-University Transfer form from the University admission's Officer.
  - (b) Satisfied the Department Minimum academic standard required for such level.

## **Course Duration**

Computer science Degree programme shall run for four (4) academic sessions for UMER admission, and three (3) academic sessions for direct entry candidates.

Evaluation of students in the University course work

The students' course work will be evaluated for grading using any one of the following criteria:



- (i) Written examination
- (ii) Continuous assessment test
- (iii) Laboratory practical reports
- (iv) Students industrial work experience scheme (SIWES)

### **Registration**

Student must register for all the approved course specified for each level in the college handbook at the beginning of each academic session. No student can register for more than 25 credit units for a semester or 50 credit units for the whole academic session.

### **Regulations governing first degree programmes**

#### **(1) Degree Options**

Programmes of study shall be provided leading to bachelor's degree in science to be denoted by: B.Sc Computer & IT

#### **(2) Teaching Method**

Instruction shall be by course and students will be required to take an appropriate combination of course and undergo appropriate work experiences as Senate may determine from time to time on the recommendation of the department and the college.

#### **(3) Categorization of courses**

##### **(a) Core course (C)**

These are courses that must be mounted by the University, taken by the student and passes in respect of the particular degree programme

##### **(b) Required courses (R)**

These are courses, which are mounted by the University, taken by the student, on advice of the department in respect of the particular degree programme by which the student may or may not pass.

#### **(4) Pre-Requisite Course**

(a) Pre-Requisite courses are the knowledge of which is necessary prior to the taking of other specified (usually higher level) courses. A student is deemed to have obtained this pre-requisite knowledge if he/she obtains a mark not less than 355 but will not be credited with any grade points in the course concerned, except he/she scores a minimum mark of 45%.

(b) Pre-requisite courses must be reflected where applicable. As much as possible no course shall be a pre-requisite for a course at the same level. Course number shall be prefixed by three character programme/subject/department code.

#### **(5) Quantification of courses.**

Courses shall be quantified and evaluated in terms of credit units. A credit unit is defined as one lecturer/tutorial contact hour per week (i.e 15 hours of lecture/tutorial per semester) or three hours of laboratory practical class per week (i.e 45 hours of laboratory practical class/field work per semester).

- (a) No course shall be less than 2 units and no lecture course shall normally be more than 3 units.

**(6) Students registration**

- (a) The first week of the first semester of each academic session shall be the period for course registration. The period shall be lecture-free to enable all registration officials attend to all students fully.
- (b) Registration time will be from 8.00am 4.00pm daily during this period.
- (c) Every level in each department will be assigned one or more lecturers to act as registration officer for students in that level throughout the duration of the exercise.
- (d) Students wishing to add or drop a course in any semester may do so using ‘add and delete’ forms provided it is done within the first two weeks of the commencement of lectures during the semester.

**(7) Minimum and Maximum load**

- (a) A student must register for a minimum of 15 course unit per semester and a maximum of 25 course units per semester.
- (b) A student desiring to carry more than the maximum prescribed load or less than minimum prescribed load or less than the minimum prescribed load of course units must normally apply to the Dean through the Head of department.
- (c) In exceptional cases, the Dean may on behalf of the college Board permit a student to carry more than the maximum prescribed load or less than the minimum prescribed load of course units.

**(8) Course Adviser**

A course adviser is a member of academic staff who approves students’ registration forms. He advises students individually and ensures that their choices are consistent with the degree regulations and requirements. The department appoints one or more course advisers for each level of her students.

**(9) Class Admit/Grade Card**

A class admit/grade care shall be issued to every registered student in the department. The card shall enable the course lecturers to exercise control over student attendance at such lectures. Lecturers shall be required to certify that a student has attained over 755 minimum contact hours before he/she is allowed to take the examination in the particular course. The class admit/grade care shall be used by course lecturer for the submission of student’s score/grade in the particular course.

**(10) Examination Regulations**

- (a) All course taught during each semester shall be examined at the end of that semester. Similarly all sessional course shall be examined at the end of that session.
- (b) Only students who are duly registered for courses in a given semester and have met their financial obligation to the university shall be eligible to sit for examination in those course.

- (c) Students who enter for examination in courses for which they are not duly registered shall not be credited with any grades or units for the courses.
- (d) Students shall report at the stipulated examination halls fifteen minutes before the start of the examination.
- (e) No candidate shall be allowed into the examination hall after 30 minutes of the start of the examination.
- (f) The chief invigilator may, under special circumstance accept a candidate into the examination hall after 30 minutes of the start of the examination if he/she is satisfied that there are reasonable grounds for the lateness. A report of this situation must be formally made to the Chief Examiner.
- (g) No candidate shall be allowed to leave the examination hall within 30 minutes of the conclusion of the examination.
- (h) No candidate shall be allowed to withdraw from the examination hall within 30 minutes of the commencement of examination.
- (i) Candidates shall not be allowed to bring into examination hall any personal bag, electronic organizer, textbooks, scrap notes or such other personal effects except such materials as may permitted for use in the same examination.
- (j) All rough notes, scrap sheets, draft answer sheets must be submitted after appropriate cancellation, to the Chief invigilator with the definitive answer sheet at the conclusion of the examination.
- (k) Candidates shall not talk to one another; give or receive from another any form of assistance, pens, eraser, pencils, rulers, etc.
- (l) It shall be the responsibility of each candidate to ensure that his/her examination sheets are duly accounted for to the chief invigilator at the examination hall.
- (m) All questions pertaining to the examination must be directed to the chief invigilator or any of the accredited invigilators.
- (n) Candidates may go to the toilets, etc during examination provided that a suitable officer accompanies them throughout the period of absence, such absence must not be reasonable prolonged and the candidate shall not be allowed any extra time by reason of such absence.
- (o) Candidates shall not walk out of the examination hall with any answer sheet/booklet used or unused.
- (p) Candidates shall comply with any instruction given by the chief invigilator as to the submission of their answer sheets at the conclusion of the examinations.
- (q) Invigilators shall ensure that personal effects such as bags, electronic organizers, textbook, scrap notes, etc are not brought into the examination hall by the candidates and that unused answer scripts are not taken out.
- (r) Silence shall be maintained throughout the duration of an examination.
- (s) Invigilators shall tell the candidates the exact time regulations of starting an examination and thereafter inform them of the time at reasonable intervals.
- (t) Invigilators shall ensure that all candidates sign the attendance register.
- (u) Any contravention of any of the above rules and regulations shall constitute examination misconduct. All candidates shall comply with these regulations in their own interest.
- (v) The chief invigilator shall report any examination misconduct formally to the chief examiner/Dean of the appropriate college as specified by senate.

- (w) At the end of an examination, each invigilator shall collect and count the scripts before handing them over to the chief invigilators who shall sign the answer booklet.

**(11) Absence From Examination**

- (a) Candidates must present themselves at the examination for courses for which they have registered.
- (b) Candidates who fail to do so for reasons other than certified ill-health or accident or for any other reason acceptable the department Board (subject to Dean's approval) shall be deemed to have failed that examination (i.e would have F grade).
- (c) For the avoidance of doubt, failure to take cognizance of changes in the examination timetable and such lapses on the part of the candidates shall not be accepted reasonable excuse for absence.
- (d) A candidates who fails ill during an examination shall report to the Director of the University Health Services who shall subsequently submit a report in writing to the Head of Department through the Dean of the college after treating the candidate.
- (e) A candidate who is unable to take an examination on grounds of illness confirmed by the University Directors of Health Services, on ground specified above may be allowed to sit for the examination at the next available opportunity.
- (f) When necessary, on grounds of ill health and certified by the director of health services, an examination can be taken in the hospital or related location as approved by the dean and invigilator.

**(12) Grading of Examination**

- (a) The grading of a theory course shall consist of continuous assessment (30%) and examination (70%).
- (b) The pass mark for every course is 45%.
- (c) The grading system is as follows:

Scores	Grade	Grade point
70 – 100	A	5
60 – 69	B	4
50 – 59	C	3
45- 49	D	2
0 - 44	F	0

- (d) Students' results are prepared at the end of every semester, reflecting raw marks and grades, total units taken, total units passed and total units failed.
- (e) At the end of every session a summary of students' results is prepared at each level, reflecting the units taken during the session, the units passed during the session, the sessional G.P.A., the courses failed for the session, the cumulative units taken, the cumulative units passed, the CGPA and remarks of proceeding, summer, probation, repeat or withdrawal form the degree programme as the case may be.

- (f) At the end of the degree programme, students results are prepared reflecting details of the session's performance, including list of courses failed for the session as well as the cumulative performance including the degree classification (where applicable).
- (g) Both the sessional; GPA and CGPA are calculated using the weighted grade point. The weighted grade point for the course is the product of the point and units for the course. Thus a student who scores 75% in a three unit course (say CSC 111) has a grade point of 5 and a weighted grade point of  $3 \times 5 = 15$  for that course.  
Thus the sessional G.P.A. is calculated from the formula:  

$$\text{G.P.A} = \frac{\text{Total Weighted Points for all courses in the session}}{\text{Total Credit Units taken for that session}}$$
Similarly, the CGPA is calculated from the formula:  

$$\text{CGPA} = \frac{\text{Total Weighted Points for all courses in the session}}{\text{Total Credit Units taken for that session}}$$
Provided that all courses taken that are relevant to a particular degree programme are used in the computation of the various averages.  
In computing CGPA, performance in all courses registered for and taken in the course of a particular degree programme must be used.
- (h) The inclusion of the column (For cumulative take) in each of the formats for presentation of results senate and to the college Board enables one to keep track record of the weighted grade points being carried for ward to the next session (being product expressed to the nearest integer, of the CGPA and the cumulative units taken) where applicable.
- (i) As an example, consider a student who has taken eighteen courses in the two semester with the following details

#### 100 Levels First Semester Examination

Course	Unit (a)	Mark (%)	Grade Letter	Grade point (b)	Weighted grade point (a) x (b)
CSC 111	3	45	D	2	6
CSC 112	3	53	C	3	9
CSC 113	3	45	D	2	6
PHY 112	2	35	F	0	0
MTH 111	3	47	D	2	6
MTM 112	3	48	D	2	6
GST 111	2	46	D	2	4
GST 112	2	50	C	3	6
GST 113	2	51	C	3	6
Total	23				49

#### 100 Levels Second Semester Examination

Course	Unit (a)	Mark (%)	Grade letter	Grade point (b)	Weighted grade point (a) x (b)
CSC 121	3	55	C	3	9
CSC 122	3	64	B	4	12

CSC 123	3	53	C	3	9
MTH 123	3	46	D	2	6
PHY 100	1	45	D	2	2
PHY 123	2	60	B	4	8
GST 121	2	65	B	4	8
GST 122	2	55	C	3	6
GST 123	2	45	d	2	4
	21				64

### 100 Levels First Semester Summer Examination

Course	Unit (a)	Mark (%)	Grade Letter	Grade point (b)	Weighted grade point (a) x (b)
MTH 112	3	65	B	4	12

$$\text{Sessional GPA (Before Summer)} = \frac{49+64}{44} = \frac{113}{44} = 2.57$$

$$\text{Sessional GPA (Afore Summer)} = \frac{49+64+12}{44} = \frac{125}{44} = 2.84$$

Suppose that a student pulled the following results after summer for a four year programme:

Year	Weighted Grade point	Total Credit Units	Cumulative units	Cumulative weighted Grade Pt.	CGPA
Year I	94	38	38	92	2.421
Year II	114	40	78	206	2.641
Year III	122	44	122	328	2.689
Year IV	117	42	164	445	2.713

Thus, the CGPA at the point of graduation is 2.71, hence the student will come up with second class lower division degree classification.

Note:

- A student cannot **re-register for a course already passed**
- A student must have passed all core courses and accumulated at least 30 credit units per level before graduation (i.e minimum of 120 units for UME and 90 units for direct entry before graduation)
- In the computation of the CGPA all courses taken in the session will be used and therefore no course will be disregarded or discountenanced.

### (13) Summer

Students that have a GPA of 1.50 and above but failed some course at the end of second semester have a remark of summer in their result slip. This means that the student is to

attend the summer school and retake the entire failed course in which he/she scored at least 35% mark.

**(14) Probation**

- (a) A student who makes a CGPA of 1.50 or more at the end of the session will proceed to the next level of degree programme for which he/she is registered.
- (b) A student at 100 to 300 level who makes a CGPA of less than 1.50 at the end of the session will be on probation for the following session to enable him/her improve on the CGPA. During that session he must register for the appropriate core courses and other courses he/she has the pre-requisites.
- (c) A student on probation during a session who makes a CGPA of less than 1.50 at the end of the following academic session must withdraw from degree programme for which he/she is registered.
- (d) If a student changes to a new degree programme and obtain a CGPA of less than 1.50 in the new degree programme he/she will again be on probation. If however, he/she obtains a CGPA of less than 1.50 a second time in the new programme he/she will be asked to withdraw from the university.

**(15) Transfer**

- (a) Every student seeking transfer from one degree programme to another must complete the necessary forms within the stipulated time.
- (b) All courses taken in the new previous degree Programme that are deemed relevant to the new degree programme by the offering department will be used for the computation of CGPA for the new degree programme.
- (c) All regulations in respect of the new degree programme concerning core, required courses etc must be met before graduation.

**(16) Honours classification**

- (a) No student shall qualify for award of an honours degree of the university if he/she spends more than two sessions (four semesters) beyond the normal period allowed for the degree programme.
- (b) No student who has transferred more than twice will be qualified for an honours degree .

Award of degree

At the end of the degree programme, student's results are prepared reflecting details of the session's performance, including list of courses failed for the session as well as the cumulative

CGPA	Class of degree
4.50 – 5.00	First class honours
3.50 – 4.49	Second class honours (Upper Division)
2.40 – 3.49	Second class honours (Lower Division)
1.50 – 2.39	Third class honours

Performance including the degree classification according to the following scheme:

### (17) Conferment of Degree

After the recommended examination results from the college board shall have been approved by the university senate successful candidates shall be admitted either in person or in absentia to the degree of the university at the convocation for the award of degree, and thereafter issued with certificates under the common seal of the University.

### COURSE STRUCTURES/DESCRIPTIONS

#### 100 Level

#### First Semester

S/N	Course Code	Course title	Course unit
01	CSC 111	Programme concept using visual basic	3
02	CSC 112	Internet & networking fundamental	3
03	CSC 113	Use of packages	2
04	MTH 111	Algebra and trigonometry	3
05	MTH 112	calculus	3
06	PHY 112	General physics	2
07	GST 111	Communication in English I	2
08	GST 112	Logic, philosophy and Human existence	2
09	GST 113	Nigerian people and culture	2
		<b>Sub total</b>	<b>22</b>
<b>Electives</b>			
01	BUS 111	Introduction to Business Management I	3
02	ACC 111	Introduction to Accounting I	3
03	ECO111	Principles of economics I	3
04	PHY 111	Mechanics, Thermal Physics and Matter	3

### CSC 111: Program Concept Using Visual basic (Compulsory – 3 units)

#### Prerequisite: Pre –Degree

**Course content:** Programming languages classification, comparison of High and Low level languages, translators, assemblers, compilers and interpreters, object oriented programming languages. Software development tools. Computer language families, procedural, structural, etc. program development methods and steps (Algorithms: flowcharts, pseudocodes, UML tool etc) qualities of a good programme syntax, statements and commands, including disk file processing or of the selected programming language.

Practical session: Supervised Basic programming exercises weekly or in any other programming language.

Course Duration/regulation: this course shall be covered within 15 weeks of 3 hours per week or 45 lecture hours in a semester. The overall assessment shall be on the basis of continuous assessment (CA), and theoretical and practical exams.



### **CSC 112: Internet & Networking Fundamentals (compulsory – 3 units)**

#### **Prerequisite: Pre-degree**

**Course content:** Networking concept & definitions. Hardware and software components.

LAN types and topologies: LAN topology, LAN functional area. Network type (peer to peer, server (Station, server and WAN connectivity, backbone), physical layer transmission (mechanical electrical, functional & procedure). Evolution, OSI reference model and Ethernet model. Origin of internet, internet architecture, backbone, & connection modes, internet facilities, internet organization, internet protocols, internet browser, search engines, HTML basis, introduction to world wide web, common terms relating to internet, security in internet, downloading. Uploading, EMAIL facilities, Domain names, setting up.

Practical session: visit to internet centers, HTML programming exercises, simple networking

Course duration/regulation: this course shall be covered within 15 weeks of 3 hours per week or 45 lecture hours in a semester. The overall assessment shall be on the basis of continuous assessment (CA), and theoretical and practical exams.

### **CSC 113: Use of packages (compulsory – 3 units)**

#### **Prerequisite: pre-degree**

**Course content:** General introduction to computer science. Computer hardware (History of computer, generation of computers, evolution and types of computers, classification of computers, architecture, data representation in memory, typical computer configuration). Computer software (History & generation, software types programming languages and features). Programming steps. Introduction to windows and DOS operating system. Organization chart of computer center. Categories of computer application. Use of computers, advantages and disadvantages of computers. Introduction to word processing data communication (basic concept & methods, computer network, internet & E-mail concept) data processing (Properties, type of processing, Batch processing). Number representation (Binary mathematics, number conversion). Computer viruses and protections.

Practical session: Physical computer operations, hardware study.

Course duration/regulation: this course shall be covered within 15 weeks of 3 hours per week or 45 lecture hours in a semester. The overall assessment shall be on the basis of continuous assessment (CA), and theoretical and practical exams.

### **MTH 111: Algebra Trigonometry (Compulsory – 3 units)**

#### **Pre-requisite: Pre-Degree**

**Course content:** Elementary set theory, subsets, union intersection, complements and venn diagram properties of some binary operations of sets. Real number systems, simple definitions of integers, rational and irrational numbers. The principle of mathematical induction, real equations, binomial theorem, partial fractions, permutation and combination, circular measure, trigonometric functions of angles of any magnitude. Addition and factor formulate complex number, algebra of complex numbers, the argand diagram. De Moivre theorem.

Practical session: assignment (including simple application programming exercises)

Course duration/regulation: this course shall be covered within 15 weeks of 3 hours per week or 45 lecture hours in a semester. The overall assessment shall be on the basis of continuous assessment (CA), and theoretical exams.

**MTH 112: Calculus (compulsory – 3 units)**

**Prerequisite: Pre-degree**

**Course content:** Elementary functions of single real variables and their graphs, limits and continuity, graphs of simple functions (polynomial, rational, trigonometric, etc.) differentiation (limit of rate of change of element, functions, product quotient, function of function rules), implicit differentiation, differentiation of trigonometric, inverse trigonometric functions and exponential function, logarithmic & parametric differentiation, rate of change (tangent & normal) to a curve, use of binomial expansion for any index, stationary values of simple function, maximal and minimal, points of inflexion, integration by substitution & by parts, definitive integral, volume of revolution areas.

Practical session: assignment (including simple application programming exercises)

Course duration/regulation: this course shall be covered within 15 weeks of 3 hours per week or 45 lecture hours in a semester. The overall assessment shall be on the basis of continuous assessment (CA) and theoretical exams.

**100 Level Second Semester**

Course code	Course title	Credit unit
CSC 121	Fortran programming (C)	3
CSC 122	IT application, policy & IT current Trends (C)	3
CSC 123	Computer systems Mtc/electronic (C)	3
MTH 123	Probability & Statistics (C)	3
PHY 100	Practical Physics (C)	2
PHY 123	Waves, Vibration & Optics (C)	2
GST 121	Use of library, studyt skills & ICT (C)	2
GST 122	Communication in English II (C)	2
GST 123	Communication in French II (C)	2
	Total	22

**CSC 121: Fortran programming (compulsory 3 credit unit)**

**Prerequisite: CSC 111, CSC 114**

**Course contents:** Meaning & History of FORTRAN. Types & acceptable characters, mathematical symbols & common function, complication steps. FORTRAN coding sheet, essential or edit program. Conditions for variable names, data types, default, implicit, explicit data types, data type range, BODMAS, converting formulae to FORTRAN, relational operators, name, parameter, data assignment type, stop, END, read, write, Format, field descriptors, Arrays, GOTO, continue, IF versions, Do loop. Subprograms, Disk Input/Output, printing, character handlings, substring.

Practical session: FORTRAN (77 96) programming exercises)

Course duration/regulation: this course shall be covered within 15 weeks of 3 hours per week or 45 lecture hours in a semester. The overall assessment shall be on the basis of continuous assessment (CA) and theoretical and practical exams.

**CSC 122: Information Technology Application, Policy & Society  
(compulsory 3 credit unit)**

**Prerequisite:** CSC 112, CSC 113

**Course content:** Introduction to IT, Technology & sciences, Historical perspective . IT ethics, four ethical issues in information age (PAPA), society & IT, impact of IT on employment & productivity, competition, individuals, quality of life, privacy, people with disability, computer & IT industries (Professional careers). Property of Infotech, property of Infosphere, policy on copyright and citation, E-commerce, legal concerns in E-commerce, information technology & organizational structure. Application of IT in education, Health, government, security, application of E-technology.

Practical session: Research work, term paper, visit to IT companies.

Elementary WEB design

Course duration/examination: this course shall be covered within 15 weeks of 3 hours per week or 45 lecture hours in a semester. The overall assessment shall be on the basis of continuous assessment (CA) and theoretical exams.

**CSC 123: Computer System Maintenance & Basic Electronics (Compulsory 3 Credit Unit)**

**Prerequisite:** CSC 113, PHY 112

**Course content:** Introduction to computer system, computer system parts, maintenance techniques, approach & tools, diagnostic techniques, system assembly & installation, OS & software installation, troubleshooting & repairs, (Hardware & software). Basic electronics concepts, electronic system, signal & processing, properties & models for resistors, capacitors, inductors, circuit design & analysis (Ohm's law, kirchhoffs laws, Thevenin's Theorem). Sensors resistive, capacitive & piezoelectric sensors). Instrumentation, digital amplification & gain, signal conditioning using Op-amps (Buffers, comparators). Analogue to digital converters.

Practical session: hardware laboratory exercises.

Course duration/regulation: this course shall be covered within 15 weeks of 3 hours per week or 45 lecture hours in a semester. The overall assessment shall be on the basis of continuous assessment (CA) and theoretical and practical exams.

**MTH 122: Ordinary Differential Equations (Elective – 3 units)**

**Prerequisite:** Pre-degree, MTH 112

**Course content:** formation of differential equations, first order equations, homogenous first and inhomogeneous first order, Yanasee separable exact, homogeneous and linear, integrating factors. Application in population dynamics, chemical and biochemical kinematics periodic coefficient, linear motion of partite. The second order equation with constant coefficients. Exponential solutions, complex characteristics roots. The method of undetermined coefficients (application)

Practical session: assignment (including simple application programming exercises)

Course duration/regulation: this course shall be covered within 15 weeks of 3 hours per week or 45 lecture hours in a semester. The overall assessment shall be on the basis of continuous assessment (CA) and theoretical exams.

**MTH 123: Probability and Statistics (compulsory – 3 units)****Prerequisite: pre-degree**

**Course content:** Introduction to statistics diagrammatic representation of descriptive data, measures of location & dispersion of ungrouped data. Problems of grouping, associated graphs. Introduction to probability sample space & events addition law, multiplication law, use of permutation & combination, probability theory, binomial distribution, linear correlation, scatter diagram, product moment & rank correlation, linear regression, analysis of variance.

Practical session: assignment (including simple application programming exercises)

Course duration/regulation: this course shall be covered within 15 weeks of 3 hours per week or 45 lecture hours in a semester. The overall assessment shall be on the basis of continuous assessment (CA) and theoretical exams.

**200 Level****First Semester**

S/N	Course code	Course title	Course unit
01	CSC 211	Structured programming in PASCAL	3
02	CSC 212	Data processing and management information system	3
03	CSC 213	Advance networking and data communication	3
04	CSC 214	Assembly languages programming	3
05	CSC 215	Database concepts and programming	3
06	MTH 211	Linear algebra	3
07	GST 211	History and philosophy of science	3
		<b>Sub total</b>	<b>20</b>
<b>Electives</b>			
01	MTH 213	Real analysis	3
02	MTH 214	Mathematics method I	3
03	BUS 211	Principle of management I	3
04	ACC 211	Financial accounting I	3
05	ECO211	Micro economics theory I	3

**CSC 211: Structure Programming in PASCAL (compulsory – 3 units)****Prerequisite: CSC111**

**Course content:** Definition of structured programming. Features of structure programming. Declaration, data types, operation, built in function. Strings, pointers, list processing. Procedures. Multitasking. Modular programming. Control structures (selection & repetition) – array data structure (one & two dimensional), record and file processing

Practical session: PASCAL or DELPHI programming exercises.

Course duration/regulation: this course shall be covered within 15 weeks of 3 hours per week or 45 lecture hours in a semester. The overall assessment shall be on the basis of continuous assessment (CA) and theoretical and practical exams.

**CSC 212: Dta Processing And Management Information System  
(compulsory – 3 units)**

**1<sup>st</sup> semester**

**Prerequisite: CSC 111, CSC 112, CSC 113**

**Course content:** Introduction to management organization & computer system. System development life cycle. Managerial structure within organization. Evolution of information system. Structure of MIS. Decision making process, work-study, organization & methods (O&M). principles of design & use of packages in area covered in MIS. Decision support system. Information needs of managements.

Practical session: term paper on MIS applications.

Course duration/regulation: this course shall be covered within 15 weeks of 3 hours per week or 45 lecture hours in a semester. The overall assessment shall be on the basis of continuous assessment (CA) and theoretical exams.

**CSC 213: Advance Networking and Data Communication (compulsory – 3 units)**

**Prerequisite: CSC 112, CSC 113**

**Course content:** LAN transmission media, LAN protocols, CSMA/CD bus, token ring. Token bus, high speed and bridged LAN, bridges. Spanning tree algorithms, topology turning remote bridges, routing algorithm, comparison with transparent bridges. Internet work with different LAN, WAN. Characteristics of public data networks, circuit and packer switching, packet types, interconnection of X25 networks ISDN, Internetworking (Architecture & Issues). Internet networking protocol standards.

Practical session: term paper, visit network environment & assignment.

Course duration/regulation: this course shall be covered within 15 weeks of 3 hours per week or 45 lecture hours in a semester. The overall assessment shall be on the basis of continuous assessment (CA) and theoretical exam.

**CSC 214: Assembly Language Programming (compulsory – 3 units)**

**Prerequisite: CSC 111, CSC 113**

**Course content:** Distinction between high languages & assembly languages. numbering system (conversions in base 2,8,10 and 16), 1's and 2's compliment. Machine language programming. IBM microprocessor and memory architecture, use of memories & register. Introduction to assembly language statements and syntax. Addressing mode, flags, reporters. Arithmetic operations, move Ops, Bits manipulations using shift, rotate operations etc. stack implementation using assembly language. Macro & procedure definition.

Practical session: Assembly programming exercises.

Course duration/regulation: this course shall be covered within 15 weeks of 3 hours per week or 45 lecture hours in a semester. The overall assessment shall be on the basis of continuous assessment (CA) and theoretical and practical exams.

**CSC 215: Database Concepts and Programming (compulsory – 3 units)**

**Prerequisite: CSC 111, CSC 113, CSC 114**

**Course content:** Definition of common related terms (database architecture. Condition for DBA). Database architecture. Condition for DBMS, Advantages and Disadvantages

Database environment (comparison of file & DB processing), unction of DBMS & DBA. Data dictionary details, scheme, subschema with examples. Functions of data definition language & data manipulation language. DB security, (Concurrent processing, lockouts, deadly/warm embrace, notification). DBM model & theory (DLI, DBTG, relational DB, properties of relations, functional dependence). Normal forms & normalization, Relational algebra & calculus models. Object databases polymorphism, data abstraction, advantages & disadvantages of object oriented database). Query languages design using SQL.

Practical session: Assignment to create sequential, direct files using any of the following: ACCESS, ORACLE, FORTRAN, VB,BASIC, SQO.

Course duration/regulation: This course shall be covered within 15 weeks of 3 hours per week or 45 lecture hours in a semester. The overall assessment shall be on the basis of continuous assessment (CA) and theoretical and practical exams.

### **MTHS 211: linear Algebra (compulsory – 3 units)**

**Prerequisite: MTH 111**

**Course content:** Set theory Cartesian products, mapping vector spaces, basis, dimensions, linear mapping. Algebra of matrices, determinants inverse, solvability of system of linear equations. Symmetric and skew-symmetric matrices. Quadratic forms, eigenvectors and eigenvalues.

Practical session: Assignment (including simple application programming exercises)

Course Duration/Regulation: This course shall be covered within 15 weeks of 3 hours per week or 45 lecture hours in a semester. The overall assessment shall be on the basis of continuous assessment (CA) and theoretical exams.

### **MTH 213: Real Analysis 1 (elective – 3 units)**

**Prerequisite: MTH 111, MTH 122**

**Course content:** Limits, sums, products, quotient of limits convergence of sequence & series of real numbers, test for convergence of series of nonnegative terms, absolute & conditional convergence. Alternating series, brackets, rearrangement, Cauchy multiplication continuity, uniform continuity, monotonic function, differentiability, Rolle's mean value theorems for differentiable functions Taylor series, indeterminate forms.

Practical session: assignment (including simple application programming exercises).

Course duration/regulation: this course shall be covered within 15 weeks of 3 hours per week or 45 lecture hours in a semester. The overall assessment shall be on the basis of continuous assessment (CA) and theoretical exams.

### **MTH 214: Mathematical Methods I (elective – 3 units)**

**Prerequisite: MTH 112, MTH 122**

**Course content:** Some techniques of integration by parts and by partial fractions. Reductions, formula, differentiations, partial differentiation, application and classifications of critical points of functions of two variables, Lagrangian multipliers, coordinate system change from Cartesian to polar, spherical and cylindrical co-ordinate systems. Taylor's and Maclaurin's series, Leibnitz's rule (application. To the solutions of differential equations). Complex number (hyperbolic functions, De Moivre's theorem, roots of complex numbers, root of polynomials exponential form functions of complex variables).

Practical session: assignment (including simple application programming exercises).  
 Course duration/regulation: this course shall be covered within 15 weeks of 3 hours per week or 45 lecture hours in a semester. The overall assessment shall be on the basis of continuous assessment (CA) and theoretical exams.

**MTH 215: Ancillary Mathematical (elective – 3 units)**

**Prerequisite:** MTH 112, MTH 122

**Course content:** Elements of set theory, quadratic equations graph of simple functions, polynomials, logarithmic & trigonometric, matrices addition, multiplication, inverse of matrices, and solution of linear equation in three unknowns. Trigonometric ratios, sum of angles small angles, solution of triangles. Differentiation and integration, area of volume of solid. Descriptive statistics; mean, median, mode, standard deviation, frequency distribution and related graphs suitability for biochemistry, microbiology.

Practical session: assignment (including simple application programming exercises).  
 Course duration/regulation: this course shall be covered within 15 weeks of 3 hours per week or 45 lecture hours in a semester. The overall assessment shall be on the basis of continuous assessment (CA) and theoretical exams.

**MTH 216: Set Theory and Algebra (Elective – 3 units)**

**Prerequisite:** MTH 112, MTH 123

**Course content:** Element of set theory, graph of simple functions, polynomials, logarithmic & trigonometric. Theory of quadratic equations, sequences, simple series, Taylor, Binomial exponential, logarithmic and trigonometric complexes, argand diagram, solution of polynomial equations (up to quadratic) inequalities, absolute values, limits, sum, products, quotient of limits. Convergence of sequence & series of real numbers. Test for convergence of series. Brackets, rearrangements, Cauchy multiplication, continuity, uniform continuity, monotonic functions, differentiability, roles and mean value theorems for differentiable functions, Taylor series, indeterminate forms.

Practical session: assignment (including simple application programming exercises).  
 Course duration/regulation: this course shall be covered within 15 weeks of 3 hours per week or 45 lecture hours in a semester. The overall assessment shall be on the basis of continuous assessment (CA) and theoretical exams.

**(Second Semester)**

S/N	Course code	Course title	Course unit
<b>Compulsory courses</b>			
01	CSC 221	Data structure	3
02	CSC 222	Objected –oriented programming in C++	3
03	CSC 223	Web technology & portal design	3
04	CSC 224	Human –computer interaction	3
05	MTH 221	Numerical analysis	3
06	GST 221	Peace studies and conflict resolution	2
		Sub total	17
<b>Electives</b>			
01	MTH 222	Applied Statistics	3
02	MTH 223	Mathematical methods II	3

03	BUS 211	Principle of management I	3
04	ACC 211	Financial accounting I	3
05	ECO 211	Micro economics theory I	3

### **CSC 221: Data Structure (compulsory 3 – credit units)**

**Prerequisite:** CSC 111, CSC 211

**Course content:** Definition of basic terms & elementary data structure, data field, subfield, record, file, coding, system (ASCII, EBCDIC), characters integer, Real, Boolean, fixed, floating point, exponent, mantissa, alphanumeric, string, constant, literal, attributes of data & variables (Name, value range, length, type, Address, decimal places). Operation on elementary data type (assignment, concatenation, arithmetic & logic ops). Arrays (1,2, dimensional arrays, arrangement/mapping in storage, column, rows use in fortran pascal, java, C++ as example), list (linear, circular, linked lists, pointers, operation on lists, insert, delete, add, search, sort), stacks, queues, dequeues, trees (definition, graph, root leaves, leaves, level nodes, vertex, parent, children, siblings, ancestors, descendants, subtree, height, dept, length), types of tree (pedigree, linear, genealogical, decision, games, AVI, binary, 2-3 trees, B-trees, spanning). Traversal algorithms, recursion, block programming techniques, searching & sorting algorithms, symbol tables and Hashing, other types of trees.

Practical session: Pascal, C++, Java, C#, Basic programming exercises

Course duration/regulation: this course shall be covered within 15 weeks of 3 hours per week or 45 lecture hours in a semester. The overall assessment shall be on the basis of continuous assessment (CA) and theoretical and practical exams.

### **CSC 222: Objected-Oriented Programming in C++ (compulsory credit unit)**

**Prerequisite:** CSC 111

**Course content:** Object oriented programming concept property of OOP, encapsulation, type extensibility, construction of object conversion, operation, seamless type inheritance, polymorphism, program elements, functions & pointers, OOp lanuage requirement, reuse & inheritance, language complexity, design principles, schema diagram & tools.

Practical session: C++ (command line & visual) programming exercises.

Course duration/regulation: this course shall be covered within 15 weeks of 3 hours per week or 45 lecture hours in a semester. The overall assessment shall be on the basis of continuous assessment (CA) and theoretical and practical exams.

### **CSC 223: Web Technology & Portal Design (Compulsory 3 Credit Unit)**

**Prerequisite:** CSC 112, CSC 122

**Course content:** Web page technology & concept, web application, WEBM, web browser, web hosing, web map, web sever, web middleware, web programming, HTML concept, web page design processes (planning, analysis, design, implementation, promotion & innovation). Web management & security.

Practical session: web design/scripting programming exercises.

Course duration/regulation: this course shall be covered within 15 weeks of 3 hours per week or 45 lecture hours in a semester. The overall assessment shall be on the basis of continuous assessment (CA) and theoretical and practical exams.



**CSC 224: Human – Computer Interaction (Compulsory 3 Credit Unit)**

**Prerequisite:** CSC111, CSC 112

**Course content:** Human computer interaction concept review of interaction style. Current research in HCT, application of current HCT styles, theories, design of interface, principles, guilds, technologies for HCI, gesture recognition, Aumented reality, HCI for disabled people, CSCW, HCT for web page design.

Practical session: VRML, 3D, Web design programming exercise.

Course duration/regulation: this course shall be covered within 15 weeks of 3 hours per week or 45 lecture hours in a semester. The overall assessment shall be on the basis of continuous assessment (CA) and theoretical and practical exams.

**MTH 221: Numerical analysis (compulsory – 3 units)**

**Prerequisite:** MTH 112, MTH 122, MTH 211

**Course content:** Introduction to numerical computation solution of nonlinear equations, solution of simultaneous linear equations. Direct and iterative schemes, finite difference operators, interpolation and approximation. numerical solution of differentiation & quadranure. Numerical solution of differential equations, curve fitting and least square.

Practical session: assignment (including simple application programming exercises)

Course duration/regulation: this course shall be covered within 15 weeks of 3 hours per week or 45 lecture hours in a semester. The overall assessment shall be on the basis of continuous assessment (CA) and theoretical exams.

**MTH 222: Applied statistics (elective – 3 units)**

**Prerequisite :** MTH 123

**Course content:** Revision of descriptive statistics. Measures of location and dispersion, graphical representation of data. Inference about means, proportion and standard deviations; large and small samples. The chic square test of independence and goodness of fit. One way analysis of variance. Correlations and regression, tests of simple regression and correlations coefficients estimation and prediction in multiple regression. Use of calculators, tables and statistical packages. Introductory inference, meaning and existence of sampling distributions, sampling distributions of the mean and proportions in large samples. Pint and interval estimation of means and proportions, simple hypothesis testing.

Practical session: assignment (including simple application programming exercises)

Course duration/regulation: this course shall be covered within 15 weeks of 3 hours per week or 45 lecture hours in a semester. The overall assessment shall be on the basis of continuous assessment (CA) and theoretical exams.

**MTH 223: Mathematics Methods II (Elective – 3 units)**

**Prerequisite:** MTH 112, MTH 122, MTH 214

**Course content:** Differential equations. Solution in series; fourier series and applications, fourier method of solution. Special operators. Hermitic and unitary operators. Eigenvalues and eigenvectors. The classical orthogonal polynomials (legendary, hermit and laguerre polynomials.) Rodrigues's formula, special functions, gamma and beta function, elementary properties of the hypergeometric functions. Practical session: assignment (including simple application programming exercises). Course duration/regulation: this course shall be covered within 15 weeks of 3 hours per week or 45 lecture hours in a semester. The overall assessment shall be on the basis of continuous assessment (CA) and theoretical exams.

**300 Level  
First Semester**

S/n	Course code	Course title	Course unit
<b>Compulsory courses</b>			
01	CSC 310	Systems analysis and design	3
02	CSC 311	digital design and architecture	3
03	CSC 312	Formal language and Automata	3
04	CSC 313	Operations Research	3
05	CSC 314	Advanced object – oriented programming in JAVA	3
06	CSC315	Statistical analysis and packages	2
07	CSC316	Wireless networking and data communication	3
08	CSC 317	Network mathematics and graph theory	3
09	CSC 318	Information technology project management	3
<b>Sub Total</b>			<b>27</b>
<b>Electives</b>			
01	CSC 319	Form design and web management	3
02	BUS 311	Human resources management	3
03	ECO 311		3

**CSC 310: System Analysis And Design (compulsory – 3 units)**

**Prerequisite:** CSC 112, CSC 113, CSC 215

**Course content:** Definition: definition of common concept (system, system analysis, design, system analyst, attributes of a system, reason for system change & system analysis, attributes & function of the analyst, objectives or goal of system analysis/design). System development life cycle/phases (feasibility, system analysis, design, programming, implementation, evaluation documentation/maintenance) detail study of the (six) phases listed above. Preliminary investigation, determine scope, 1<sup>st</sup> management report, data gathering (sampling of work/documents, questionnaire/forms design, organograms, interview, observation/workstudy). Data analysis, documentation, design consideration. Detail system design security, machine requirements, system conversion, testing. Object oriented analysis & design (OOAD), tools for analyst & design application (organization chart, audit trails, flowchart, blackbox, HIPO. Technical report writing, literature review techniques, O & M, workstudy. Decision tables, statistical analysis, operation research, hardware specification, mathematical model, data dictionaries, program specification, marketing, disk layout chart, training techniques, printer spacing chart, data flows graft charts.

Practical session: term paper on system analysis & design of a system of the students choice & assignments.

Course duration/regulation: this course shall be covered within 15 weeks of 3 hours per week or 45 lecture hours in a semester. The overall assessment shall be on the basis of continuous assessment (CA) and theoretical exams.

### **CSC 311: Digital Design And Architecture (compulsory – 3 units)**

**Prerequisite:** CSC 112, CSC 226, PHY 221

**Course content:** Evolution of digital systems (SS1, MS 1, LS1, & VLS1). Introduction to combinational and Sequential digital system, synchronous system, processors, memories & logic. Combinational circuit. Boolean function, canonical form, k-map, significations & symmetric functions. Combinational circuit design using MS1 block, decoders, multiplexers, ROMS, PLAs, Iterative circuits, adders & comparators. Pattern matching examples. Minimization using quine-mcluskey method for completely specified as well as uncompletely specified function. Definition of implicants, prime implicants & essential prime implicants, register & counters. Basic logic design, data representation, instruction formats. Computer architecture, clock & reset circuitry, memory map design, serial I/O, exception & interrupt, ALU design, system Bus memory. Computer arithmetic, instruction sets,

**Field Assessment:** The IT supervising lecturer shall is required to visit the student on IT and access the students on the basis of performance on the field and the attestation on the Report/Log Book and score.

**SIWES Defense:** after the duration of 6 months the student is expected to defend the work experience before a constituted panel.

Course Duration/Regulation: this SIWES shall be covered within ix months on the basis of field assessment and SIWES Defense.

### **400 Level**

#### **First Semester**

S/No	Course Code	Course Title	Course Unit
		<b>Compulsory Courses</b>	
01	CSC411	Seminar	3
02	CSC412	Operating System	3
03	CSC413	Design and Analysis of Algorithm	3
04	CSC414	Software Engineering	3
05	CSC415	Coding System and Information Theory	3
06	CSC416	Compiler Construction	3
		Sub Total	18
		<b>Electives</b>	
01	CSC417	Structured Programming	3
02	CSC418	Management Science	3

03	CSC419	Artificial Intelligence	3
04	MTH413	Experimental Designs & Survey	3

**CSC411: Seminar (compulsory – 6 units)**

**Prerequisite:** All compulsory courses from 100L to 400L (1<sup>st</sup> and 2<sup>nd</sup> semesters)

**Course Content:** Seminar topics chosen from a variety of Computer Science, Information and Communication technology areas, which includes computer installation in various fields, computer installation, maintenance and architecture, computer management and administration, software engineering, data communication and networking, internet, ICT concepts, artificial Intelligence agents, mathematical models, etc.

Course Duration/Regulation: this course shall be covered within 15 weeks. The examination shall be on the basis of supervisor' and External examiner's assessment.

**CSC412: Operating System (compulsory – 3 units)**

**Perquisite:** CSC111, CSC211

**Course Content:** Definition of concept with examples OS, DMA, Channel, interrupt, pooling multiprogramming, Environment (Batch, multiprogramming, network). Functions of OS, Design consideration, Adaptation, Implementation, Installation of OS.

Components of OS (Shell, Kernel). Sequential & concurrent processing, Mutual exclusion, Critical region Events queues, semaphores Programming, Implementation with (Pascal, C, Java). Deadlocks (Causes, Prevention, Recovery). Decision Criteria, Memory Management, Paging, Virtual Memory, Compaction. Brief technical notes on some OS (MS – DOS, WINDOW, LINUX, UNIX, MAC – OS), Resources Allocation, File Management.

Practical Session: Assignment & Technical report on any OS.

Course Duration/ Regulation: this shall be covered within 15 weeks of 3 hours in a semester. The overall assessment shall be on the basis of continuous assessment (CA) and theoretical exam.

**CSC413: Design and Analysis of Algorithm (compulsory – 3 units)**

**Prerequisite:** CSC111, CSC211, CSC313.

**Course Content:** concept of algorithms. Efficient algorithm/complexity. NP – Complete problem. Practical analysis of sorting algorithm (Sequential searching, Binary search, Selection of Sorting algorithm, etc). Recursive algorithms.

Practical Section: Pascal, Basic, Visual Basic, Java, C# Programming exercises.

Course Duration/Regulation: this course shall be covered within 15 weeks of 3 hours in a semester. The overall assessment shall be on the basis of continuous assessment (CA) and theoretical exam.

**CSC414: Software Engineering ( compulsory – 3 units)**

**Prerequisite:** CSC 111, CSC 211

**Course Content:** Meaning and goal of software engineering. Problem of Software engineering principles, (requirement and specification analysis) Software design strategies. Software production process, model, implementation, testing and documentation. Software verification, software fault tolerance, exception handling and reporting, Software matrix.

**Practical Session:** Pascal basic, Visual Basic, Java C++ and any other programming exercises.

Course Duration/Regulation: This course shall be covered within 15 weeks of 3 hours per week or 45 lecture hours in a semester. The overall assessment shall be on the basis of continuous assessment (CA) and theoretical exam.

**CSC415: Coding System and Information Theory (Compulsory units)**

**Prerequisite:** CSC112, CSC 213

**Course Content:** Types of coding system (Block, Convolution, Iteration, Binary etc) Some basic codes and their construction. Advantages, Information measuring and quantity, source coding fundamental coding theorem,, classic code, parameter, linear codes, cyclic code, trellis, algorithm viterbil, spectral-efficient transmission, trellis-coded modulation. Information theory concept, Shannon-feno and Huffman theory and codes, compression and transmission, algorithm for loss less source. Encoding for error-correcting. Channel coding and public key. Information measuring entropy capacity of discrete noiseless channels and continuous Gaussian noise channels to match source to channels.

**Practical Session:** Term paper or Assignment

**Course Duration/Regulation** This course shall be covered within 15 weeks of 3 week hours per or 45 lectures in a semester. The overall assessment shall be on the basis of continuous assessment (CA) and theoretical exam.

**CSC416: Compiler Construction (Compulsory – 3 units)**

**Prerequisite:** CSC111, CSC214, CSC312

**Course Content:** Logical analysis, Lexical and Syntactic analysis, Coding generation, code optimization. Translator writing system. General language terminology. Precedence (operator precedence, II-parse, Top-down and Bottom-up parsing grammars).

Practical Session: Technical report on some compilers.

Course Duration/Regulation: This course shall be covered within 15 weeks of 3 hours per week or 45 lecture hours in a semester. The overall assessment shall be on the basis of continuous assessment (CA) and theoretical exam.

### **CSC 417: Structured Programming (Elective – 3 units)**

**Prerequisite:** CSC211

**Course Content:** Principles of good programming style expression structured programming. Concept control, flow, invariant relations of a loop stepwise refinement of both statement and data programme modularization (bottom up approach, top down approach, nested virtual machine approach). Language for structured programming changing, testing, verifying code, inspection, semantic analysis, test construction, program verification, test generation and running.

Practical Session: Use of C++, Visual Basic and Java prolong programming environment.

Course Duration/Regulation: This course shall be covered within 15 weeks of 3 hours per week or 45 lecture hours in a semester. The overall assessment shall be on the basis of continuous assessment (CA) and theoretical exam.

### **CSC418: Management Science (elective – 3 units)**

**Prerequisite:** CSC212

**Course Content:** Project planning and control. Economic evaluation of investment decision, management information system concepts, work-study, organization and methods (O and M) principle of design and use of packages in the areas covered in operation research including inventory management, queuing game, models, decision theories, modelling and simulation, intelligence, optimization models, forecasting, cost analysis etc. Selected areas in management science techniques, Network theory and application, decision support system.

Practical Session: Term paper on related topics and assignments.

Course Duration/Regulation: This course shall be covered within 15 weeks of 3 hours per week or 45 lecture hours in a semester. The overall assessment shall be on the basis of continuous assessment (CA) and theoretical exam.

**MTH413: Experimental Design and Survey (Elective - 3 units)****Prerequisite:** MTH123**Course Content:** Comparative experiments with two variables and paired comparison. General principles controlled experimentation. Randomization. Blocking with one or two variables. 2n factorial designs. Fractional factorials and confounding. Blocking in surfaces, balanced incomplete block design, simple random sample, sampling for attributes. Stratified and Cluster sampling. Sample size estimation. Ratio and Regression estimators in simple random sampling and stratified sampling. Systematic and multistage sampling. Errors in sample survey.**Practical Session:** Term papers on reports on design of experiments and sample surveys.  
This course shall be covered within 15 weeks of 3 hours per week or 45 lecture hours in a semester. The overall assessment shall be on the basis of continuous assessment | (CA) and theoretical exam.**400 LEVEL  
(Second Semester)**

S/No	Course Code	Course Title	Course Unit
		Compulsory Courses	
01	CSC400	Project	6
02	CSC421	Advanced Design, Security and Current Trends in IT	3
03	CSC422	System Programming	3
04	CSC423	Data Communication Software Design	3
05	CSC424	Advanced Multimedia & Internet	3
	CSC425	Mobile Computing & Communication System	3
		Sub Total	21

**CSC400: Project (Compulsory 6 credit Units)****Prerequisite:** All previous courses**Course Content:** Project topic to be chosen and approved by the department and under the direction and supervision of a Lecturer. Each student shall choose a topic that has programming logic.**Course Duration/Regulation:** This course shall be covered within 15 weeks. The examination shall be on the basis of Supervisor and External Examiner assessment. Work may start in the First Semester but it is essentially a Second Semester Course, when defence shall be done and corrected.**CSC421: Advanced Design, Security and Current Trends in IT**

### **Compulsory 3 unit)**

**Prerequisite: CSC112, CSC212, CSC213**

**Course Content:** Review of IT issues, Policy and Implementation in Nigeria, Security concept and Mechanism, Certificate and certification (SSI,PRI) Authentication & Authorization (Kerberos, Token base) Cryptography (Secret-key, Public-key, Hash function, Crypt-analysis), Digital Signature, Encryption, (process and standards (DES) and Triple (DES), CAST-128 and CAST-2256, Fault tolerance and high availability, Disaster planning and recovering

**Practical Session:** Term paper assignment and visual basic, Java, C++ programming exercise

**Course Duration/Regulation:** This course shall be covered within 15 weeks of 3 hours per week or 45 lecture hours in a semester. The overall assessment shall be on the basis of continuous assessment (CA) and theoretical and Practical exams.

### **CSC422: Systems Programming (Compulsory 3 credit unit)**

**Prerequisite: CSC111,CSC211, CSC214**

**Course Content:** Advance Programming techniques in Assembler, macro language and high level languages, system architecture, kernel component and relationship to system, programming, Object and handles, Memory management, memory allocation, Paging and working sets, Suystem software (Loaders, Linkers, Assembler, Interpreters, Compiler, Creating and using thread, handling synchronize resources, using named pipes and mail slots, using registry.

**Practical Session** Assembler, C++, Pascal programming exercises

**Course Duration/Regulation:** This course shall be covered within 15 weeks of 3 hours per week or 45 lecture hours in a semester. The overall assessment shall be on the basis of continuous assessment (CA) and theoretical and Practical exams.

### **CSC 423: Advanced Multimedia & Internet (Compulsory 3 credits unit)**

**Prerequisite: CSC112, CSC225**

**Course Content:** Multimedia concepts (graphics images, audio, animation, video, hypermedia) Internet multimedia protocol (MGCP, RTP, RSTP, SAP, SDP, SCCP, RSVP), Multimedia issues (congestion control mechanism, differentiated service, integrated service, Traffic management, Shaping and Engineering) Multimedia in Web pages, Video conferencing, Mobile computing, Online tutorial, Browser, Collaborative computing, ITU standards (H-series, H-323, VOIP, SS7).

**Practical Session:** HTML, DHTML, XML, CSS and Animation Software programming exercise



Course Duration/Regulation: This course shall be covered within 15 weeks of 3 hours per week or 45 lecture hours in a semester. The overall assessment shall be on the basis of continuous assessment (CA) and theoretical and Practical exams.

**CSC424: Mobile Computing and Communication Systems (Compulsory 3 units)**

**Prerequisite: CSC112, CSC316**

**Course Content:** Mobile computing and Communication system, Mobile computing concept, mobile computing technology, wireless mobile communication concept, cellular system and topology, analog to digital, IG – 4G generation. Cellular standards, SMR, Intellimino, WAP, SMS, Mobile IP, Roaming L2TP, SSP, HDML, AMDS, CDPD, GSM packet radio communication, PCS, CDMA and TDMA.

**Practical Session:** WML, SM, CSS programming exercises

**Course Duration/Regulation:** This course shall be covered within 15 weeks of 3 hours per week or 45 lecture hours in a semester. The overall assessment shall be on the basis of continuous assessment (CA) and theoretical and Practical exams.

**CSC 425 Advanced Graph Theory and Applications (Elective 3 credit unit)**

**Prerequisites: CSC111, CSC222, CSC317**

**Course Content:** Block graph partition, Bridges, Matches, Graph applications and programming, examples of NP complex problems.

**Practical Session:** Programming exercises for graph and animation.

**Course Duration/Regulation:** This course shall be covered within 15 weeks of 3 hours per week or 45 lecture hours in a semester. The overall assessment shall be on the basis of continuous assessment (CA) and theoretical and Practical exams.

**CSC 426: Cybernetics and Ergonomic (Elective 3 credit unit)**

**Prerequisite CSC 224, CSC 310**

**Course Content:** Intelligent machines in man's environment. Man-computer interactions, simulations of man, machines. The Brain versus CPU, Cybernetics and Elementary Ergonomics.

**Practical Session:** Term paper and assignment

**Course Duration/Regulation:** This course shall be covered within 15 weeks of 3 hours per week or 45 lecture hours in a semester. The overall assessment shall be on the basis of continuous assessment (CA) and theoretical and Practical exams.

**CSC 427 Modeling and Simulation (Elective 3 credit unit)**

**Prerequisite CSC121, CSC211, CSC321**

**Course Content:** Various simulation model, simulation languages (SIMULA, SIMSCRIPT GASUSGESS etc) General

definition types of models, why stimulation. Simulation method – ergonomic cobweb recurrence, Differential equations, Queuing, analog, statistical, probability, Quality control, Forecasting method etc, Programming of simulation using high level language like Pascal, ForTran, Basic, VB etc) and packages like SPSS, SIMULA SIMSript, GESS etc) Simulation programming technologies of counteracting statistics, Data structure, Scheduling/Scanning samples of simulation reports.

Practical Session: Programming exercises.

Course Duration/Regulation: This course shall be covered within 15 weeks of 3 hours per week or 45 lecture hours in a semester. The overall assessment shall be on the basis of continuous assessment (CA) and theoretical and Practical exams.

**Note: *The 300Level students are required to register for a 3 unit elective course to make up for the minimum required unit at that level.***

<b><i>Minimum and maximum number of courses required for Bachelor Degree in Computer Science and Information Technology</i></b>		
<b>Level</b>	<b>Minimum Requirement(Units)</b>	<b>Maximum Requirement (Units)</b>
<b>100</b>	<b>44</b>	<b>50</b>
<b>200</b>	<b>37</b>	<b>50</b>
<b>300</b>	<b>36</b>	<b>50</b>
<b>400</b>	<b>36</b>	<b>50</b>
<b>Total</b>	<b>153</b>	<b>200</b>

## DEPARTMENT OF PHYSICS/INDUSTRIAL PHYSICS

### PREFACE

The handbook for the Department of Physics/Industrial Physics contains updated information on the philosophy/objectives of the Department including information on the staff, programmes, courses structure, duration of programmes and options available to students.

The handbook will be invaluable to the students; staff and courses advisers in guiding students throughout the duration of the programmes.

### PREAMBLE

The Department of Physics/Industrial Physics offers courses in two programmes leading to the award of Bachelor of Science (B.Sc.) honours Degree in:

- Physics
- Industrial Physics

Presently, the Department provide service courses for all level Science based Departments in the University.

### Philosophy/Objectives of the Department

Physics deals with the fundamental aspects of nature – matter, energy and all issues related to the structure and properties of the physical world. Thus, it elucidates the simplest fundamental questions about nature and forms the base of scientific knowledge. Its impact on technology, industries and energy generation and distribution is unquestionably great, industry and technology are essentially applied physics.

The programme in Igbinedion University, Okada is designed to inculcate in students an indepth understanding of Physics principles and concept which will help them to acquire

- I. Scientific knowledge
- II. Skills and process of science; and
- III. The ability to apply science (Physics) in industry and life-situations

These will make the graduates in Physics become functional citizens who will seek employment not just in the education sector, but also in varied fields of industry, research information and communication technology (ICT), medicine, finance houses etc. most essentially, the graduates of the programme will become able to respond to the evolving and dynamic changes in science and technology in line with the megatrends of the modern world.

The curriculum emphasises electronics, unclear/modern Physics and aspects of geophysics. The graduates will just only seek employment, they will be equipped to create employment too.

## **Degree Programmes Proposed for the Department**

The Department proposes to two programmes:

1. Industrial Physics and Physics leading to the award of:
  - a) B.Sc. (Honours) Industrial Physics
  - b) B.Sc. (Honours) Physics
2. Postgraduate courses will be established when the undergraduate programme matures

## **Admission Requirements**

Candidates will be admitted into the B.Sc. Degree Programmes through any of the modes:

- I. University Matriculation (UME)
- II. Direct Entry
- III. Inter – College Transfer
- IV. Inter – University Transfer.

### **I. University Matriculation (UME)**

In addition to approved pass criteria by the Joint Matriculation Board (JAMB) in the UME, candidates seeking admission into the Physics/Industrial Physics Department must have at least credit passes in the GCE (OK), SSCE/NECO in five (5) subjects including English Language, Physics, Mathematics, Chemistry and any other subject at not more than two (2) sittings.

In addition to (i) above, candidates are required to submit themselves for a written and oral screening exercise in the University before admission is finally offered to short-listed qualified candidates.

### **II. Direct Entry Mode**

Candidate for direct entry may have:

- a) Two (2) A/level passes in Physics and Mathematics or Physics and Chemistry.
- b) Nigeria Certificate in Education (NCE) in Physics/Mathematics; Physics/Chemistry or Physics/Computer Science, Physics must be passed at the credit level.
- c) Ordinary National Diploma (OND) with Physics/Industrial bias.

### **III. Inter-University Transfer**

Candidates wishing to transfer into the Department of Physics/Industrial Physics from another approved University must;

- a) Obtain and fill the inter-University transfer from the Igbinedion University Admission Officer in the University Registry;
- b) Satisfy the Department minimum standard required for the appropriate level (200L) or order to satisfy the 3 academic sessions duration in the Department before graduation.

Physics and Industrial Physics B.Sc. Degree programme shall run for a minimum of four (4) academic sessions for the UME admission and three (3) academic sessions for direct entry candidates.

## **Evaluation of Students Course Work**

The students' course work will be evaluated for grading using the following contents

- a) Continuous Assessment
- b) Written Examination at the end of a semester
- c) Practical work
- d) Industrial work Experience (SIWES)
- e) Project and seminar (400L)

### **Grading of Examinations**

The grading of theory courses shall consist of

- I. Continuous Assessment (30%)
- II. End of semester within examination (70%)
- III. Grading of Practical work is based on the written reports of selected hands on experiments (60%) and written examination at the end of the session (40%).  
These give a total of 100%.

The pass mark for every examination is 45 % – 100%

The grading system is as follows:

<b>SCORE</b>	<b>GRADE</b>	<b>GRADE – POINT</b>
70 – 100%	A	5
60 – 69%	B	4
50 – 59%	C	3
45 – 49%	D	2
00 – 44%	F	0

### **Registration of Courses**

Students must register for all approved courses specified for each level in the Departmental handbook at the beginning of each academic session. Students proceeding to higher levels must register any failed courses first, before any new courses up to maximum of approved credit load for that level each session.

No student can register for more than 25 credit units for a semester at 50 credit units for a whole academic session.

### **Regulations Governing First Degree Programme**

Programmes of study shall be provided leading to the award of Bachelor's Degree (B.Sc. Honours) in Science to be designated as

- a) B.Sc. (Honours) Industrial Physics
- b) B.Sc. (Honours) Physics

### **Teaching Method**

Instruction shall be by lectures/demonstrations and student individual work. Students will be required to take an appropriate combination of courses and undergo a work experience (SIWES) relevant to Physics/Industrial Physics as senate may approve from time to time on the recommendation of the Department and the College Board.

### **Approved Department Codes for Courses**

PHY 100 – 199	-	100 Level Courses
PHY 200 – 299	-	200 Level Courses
PHY 300 – 399	-	300 Level Courses

**Categorization of Courses**

All courses designed in the curriculum for all levels are compulsory. At the 300 level, students can choose between Industrial Physics and Physics. Students will be advised on the relevant courses to be taken based on choice of specialization. Total credit load will not exceed a maximum of 130 units before graduation.

**Elective Courses**

These are courses which a student must take in respect of the Physics/Industrial Physics programme. The student must accessorially pass the course to graduate.

**Graduation Requirements:**

1. Minimum number of sessions for graduation are:
  - a) Four (4) academic sessions for UME candidates
  - b) Three (3) academic sessions for Direct Entry candidates.
2. Minimum CGPA for graduation is 1.50
3. Minimum number earned credit units for graduation is 30 per session ie:
  - a) 120 credit units for UME candidates accumulated in the four (4) academic sessions.
  - b) 90 credit units for Direct Entry candidates
4. Candidates must
  - a) Fulfill the SIWES requirements
  - b) Present and defend a project research work
  - c) Pass all stipulated General Studies (GST) Courses
  - d) Participate and pass all ESP and Community Service Programme (CSP) Courses.

**COURSES AND COURSE DESCRIPTIONS**

**100 LEVEL**

CODE	COURSE TITLE	CREDIT UNIT		
		1 <sup>ST</sup> SEMESTER	2 <sup>ND</sup> SEMESTER	TOTAL
MTH 101	General mathematics I	3		
MTH 102	General Mathematics II		3	
PHY 111	General PHY I (Mechanics and Properties of Matter)	2		
PHY 112	General PHY II (Fluid Mechanics / Elasticity)	2		
PHY 113	Thermal Physics	2		
PHY 100	Practical Physics	1	1	
PHY 121	Electromagnetism I		2	
PHY 122	Modern Physics		2	
PHY 123	Waves, Vibrations and Optics		2	
CHM 101	General CHM I	3		
CHM 102	General CHM II		3	
CHM 107/108	General CHM LAB I & II	1	1	

CSC 101/102	Introduction to computer science	4		
GST 111	Communication in English I	2		
GST 112	Logic, Philosophy Human Existence	2		
GST 113	Nigerian People and Culture	2		
GST 121	Use of Library, Study Skills & ICT		2	
GST 122	Communication in English II		2	
GST 123	Communication in French		2	
BIO 101	General Biology I	3		
BIO 102	General Biology II		3	
BIO 107/ 108	General Bio Lab	1	1	
<b>TOTAL</b>		<b>31</b>	<b>21</b>	<b>52</b>

### 200 LEVEL

CODE	COURSE TITLE	CREDIT UNIT		
		1 <sup>ST</sup> SEMESTER	2 <sup>ND</sup> SEMESTER	TOTAL
PHY 201	Elementary Modern Physics	3		
PHY 202	Electric Circuits and Electronics	3		
PHY 204	Waves and Optics II	3		
PHY 205	Thermal Physics II	3		
PHY 206	General Physics IV	1		
PHY 207/208	Physics Lab I & II	1		
STAT 203	Statistics for Physical Sciences		3	
MTH 201	Mathematical Methods 1	3		
PHY 209	Introduction to Space Science	2		
PHY 210	Physics of the Solid Earth	3		
PHY 215	Atomic And Nuclear Physics I	3		
MTH 202	Elementary Differential Equation		3	
GST 211	History and Philosophy of Science	2		
GST 221	Peace and Conflict Resolution		2	
EPS 223	Introduction to Entrepreneurial Skill I		2	
*PHY 301	Analytical Mechanics I	3		
CSC 201	Computer Programming	4		
CSP 221	Community Service Programme		1	
<b>TOTAL</b>		<b>24</b>	<b>18</b>	<b>42</b>

**300 LEVEL**

CODE	COURSE TITLE	CREDIT UNIT		
		1 <sup>ST</sup> SEMESTER	2 <sup>ND</sup> SEMESTER	TOTAL
PHY 302	Analytical Mechanics II	3		
PHY 303	Electromagnetism	3		
PHY 304	Electromagnetic Waves and Optics	3		
PHY 305	Quantum Physics	3		
PHY 306	Statistical Thermal Physics	3		
PHY 307/308	Expt. Physics II	2		
PHY 314	Solid State Physics	3		
PHY 315	Electronics I	2		
ESP 311	Introduction to entrepreneurial skill	2		
PHY 321	Industrial Training (IT)		6	
<b>Total</b>		<b>24</b>	<b>6</b>	<b>30</b>

**400 LEVEL**

CODE	COURSE TITLE	CREDIT UNIT		
		1 <sup>ST</sup> SEMESTER	2 <sup>ND</sup> SEMESTER	TOTAL
PHY 401/102	Quantum Mechanics I & II	3		
PHY 403/404	Mathematical Method in Physics	6		
PHY 407	Computational Physics	3		
PHY 422	Solid State Physics	3		
PHY 424	Atomic and Molecular Spectroscopy		3	
PHY 455	Supervised Independent Research		6	
*PHY 423	Condensed Matter Physics		2	
PHY 309	Energy and Environment	1		
EPS 316	Electronics II	2		
PHY 370	Workshop Practice		2	
<b>Total</b>		<b>18</b>	<b>11</b>	<b>29</b>

**Elective: Any Nine (9) Units from the Following Areas**

CODE	COURSE TITLE	CREDIT UNIT		
		1 <sup>ST</sup>	2 <sup>ND</sup>	TOTAL



		<b>SEMESTER</b>	<b>SEMESTER</b>	
PHY 411/112	Nuclear and Particle Physics I & II	3	3	
PHY 414	Industrial Geophysics		3	
PHY 416	Medical Nuclear Physics		3	
PHY 421	Biophysics	3		
PHY 417	Astronomy	3		
<b>Grand total</b>				<b>38</b>

### **Course Description**

#### **PHY 100: General Physics Laboratory (1 UNIT)**

This introductory course emphasizes measurements, the treatment of measurement errors, and graphical analysis. A variety of experimental techniques will be employed. The experiments include studies of Meters, The Oscilloscope, Mechanical Systems, Electrical and Mechanical Resonant Systems, Light, Heat, Viscosity, etc.

#### **PHY 111: (General Physics I) Mechanics and Properties of Matter (2 UNITS)**

Elements of Statistics, Vectors and Scalars, Simple Vector Algebra, Linear Motion, Laws of Motion, Kepler's Law, Free Fall, Projectiles, Escape Velocity. Satellites, Weightlessness.

Simple Harmonic Motion, Motion of Rigid Bodies, Moments of Torque, Moment of Inertia, Work, Energy Relations.

#### **PHY 112: (General Physics II) Including Fluid Dynamics / Elasticity of Bodies (2 UNITS)**

Work, Power, Energy, Momentum, Impulse, Conservation of Energy and Momentum, Oscillatory Motion, Periodic Motion of an Oscillator, Velocity, Acceleration of an Oscillator, Equation of Motion of a Simple Harmonic Oscillator, Damped Oscillation, Forced Oscillation, Resonance-Application, Elastic Properties of Material, Module of Elasticity of Material, Fluid Mechanics and Hydrodynamics, Pressure, Buoyancy, Fluid-Bernoulli's and Properties Equation,

#### **PHY 113: (General Physics III) Thermal Physics (2 UNITS)**

Heat and Temperature,

Thermometers and Scales of Temperature Changes of State, Latent Heats, Specific Heats, Critical Point, Triple Point, Calorimetric, Gas Laws (Boyles' Law And Charles' Law) Ideal Gas Equation, Kinetic Theory of Gases, Isothermal, Adiabatic Changes, Principal Specific Heats of Gases.

Heat Transfer, Conduction, Convection and Radiation, Blackbody Radiation, Stefan's Boltzmann Law, Weins Displacement Law.

#### **PHY 121: Electromagnetism (2 UNITS)**

Electrostatics, Charge, Electric Field Strength, Electric Flux, Inverse Square Law, Coulombs Law of Force, Gauss' Law, Simple Applicators of Electric Fields and

Potentials, Potential Difference Fields Due to Simple Charge Distributions, Superposition Principle, Energy Fields.

Capacitance, Combination of Capacitance, Dielectrics, Polarization, Energy Stored in Capacitor, Charging and Discharging of Capacitors (Time Constants in R.C. Circuits).

Electric Dipoles, Electric Field and Potential due to Dipoles, Dipoles in Electric Fields Work Due to Dipoles, Steady Current, Simple D.C. Circuits, Electromotive Force, Ohm's Law, Resistance, Resistivity, Conductance, Conductivity, Current Density, Drift Velocity, Electron Mobility, Relaxation Time Combination of Resistances, Combination of Cells.

Kirchoff's Laws, Electric Power, Measurement of Electrical Quantities – Ammeters, Voltmeters, Potentiometer, Wheatstone Bridge, Potential Divider, Magnetic Effects of Current – Magnetic Fields due to Simple Electric Circuits, Electromagnetic Effect and Simple Applications.

### **PHY 122: Modern Physics**

**(2 UNITS)**

Atomic Nature of Matter, Discovery of the Electron Quantization of Electricity, (Millikan's Experiment) Thompson's Cathode Rays and Determination of the Specific Charge ( $e/m$ ), Structure of an Atom, Atomic Models.

Thompson's Model: Rutherford Model,

Bohrs' Model: The Hydrogen Atom, Energy Levels of the Hydrogen Atom, Ionization Potential, Atomic Spectra.

The Nucleus – Structure of the Nucleus, Size and Binding of the Nucleus, Binding Fraction, Packing Fraction of the Nucleus.

X-Rays – Nature And Production of X-Rays, Properties of X-Rays, Characteristics of X-Rays, Bragg's Equation, X-Ray Diffraction, X-Absorption, (Compton Effect, Photo Electricity, Pair Production) (Continuous and Line Spectra). Moseley's Equation, Application of X-Rays.

Planck's Quantum Theory, de – Broglie's Hypothesis Wave – Particle Duality.

Radioactivity – Natural and Artificial Radioactivity, Radioactive Emissions ( $\alpha$ ,  $\beta$ ,  $\gamma$ -Rays). Radioactive ( $\alpha$ ,  $\beta$ ,  $\gamma$ - Decays, Electron-Capture) Radiation Hazard Radiation Detections, Applications of Radioactivity.

### **PHY 123: Waves, Vibrations and Optics**

**(2 UNITS)**

Waves – Types of Waves

Electromagnetic Waves Sources and Applications, Characteristics of Waves, Propagation of Waves in Various Media. Waves Equation, Vibrations in Solids (Mechanical Waves and Sound Wave), Propagation of Sound in Solids, Liquid and Gases.

Light – Wave Theory of Light (Huygens Principle) (Reflection, Refraction, Interference, Diffraction, Polarization). Rectilinear Propagation of Light, Reflection of Light at Plane Surface, Refraction of Light, Total Internal Reflection (Application), Velocity, Frequency, Wavelength of Light (in Different Media), Mirrors, Spherical Mirrors, Image Formation by Mirrors and Application.

Lenses – Lens Combination, Optical Instruments, Doppler Effect, Echoes, Sound Ranging, Ultrasonic, Production and Application, Ultrasonic Imaging.

### **PHY 201: General Physics V (Elementary Modern Physics)**

**(3 UNITS)**

**Pre – requisite PHY 122**

Special Relativity: Defect in Newtonian Mechanics, The Speed of Light, The Lorentz Transformation, Transformation of Velocities, Experimental Basis of Quantum Theory, Black Body Radiation, Electrons and Quanta, Bohr's Theory of Atomic Structured Broglie Hypothesis. The Uncertainty Principle, Schrodinger's Equation and Simple Application.

**PHY 202: Electric Circuits and Electronics (3 UNITS)**

**Pre – requisite PHY 121**

D.C. Circuits, Kirchoff's Laws, Sources of emf and Current, Network Analysis and Circuit Theorems, A.C. Circuits, Inductance, Capacitance, The Transformer, Sinusoidal Wave Forms Runs and Peak Values, Power, Impedance and Admittance Series RLC Circuit, Q Factor, Resonance, Network Analysis and Circuit Theorems, Filters, Electronics, Semiconductors, The pn-Junction, Field Effect Transistors, Characteristics and Equivalent Circuits, Amplifiers, Feedback, Oscillators.

**PHY 204: General Physics IV – Waves and Optics (3 UNITS)**

**Pre – requisite PHY 111 and PHY 112**

Wave Phenomena,, Acoustical Wave, The Harmonic Oscillator, Waves on A String, Energy in Wave Motion, Longitudinal Waves, Standing Waves, Group and Phase Velocity, Doppler Effect, Physical Optics, Spherical Waves, Interference and Diffraction, Thin Films, Crystal Diffraction, Holography, Dispersion and Scattering, Geometrical Optics, Waves and Rays, Reflection at A Spherical Surface, Thin Lenses, Optical Lenses, Mirrors and Prism.

**PHY 205: Thermal Physics (3 UNITS)**

**Pre – requisite PHY 111 and PHY 113**

The Foundations of Classical Thermodynamics Including The Zeroth and The Definition of Temperature, The First Law, Work Heat and Internal Energy, Carrot Cycles and The Second Law, Entropy and Irreversibility, Thermodynamic Potentials and The Maxwell Relations, Application, Qualitative Discussion of Phase Transitions, Third Law of Thermodynamics, Ideal and Real Gas, Elementary Kinetic Theory of Gases Including Boltzmann Clouting, Maxwell – Boltzmann, Law Of Distribution of Velocities, Simple Applications of The Distribution Law.

**PHY 207/208: Experimental Physics I & II (2UNITS)**

**Pre – requisite PHY 107/108**

The Laboratory course consists of a group of Experiments drawn from diverse areas of Physics (Optics, Electromagnetism, Mechanics, and Modern Physics etc.). It is accompanied by Seminar Studies of Standard Experimental Technique and Analysis of famous and challenging experiments.

**PHY 209: Introduction to Space Science (2 UNITS)**

Introduction to Astronomy and Astrophysics, Satellite Communication, Introduction to Atmospheric Science, Space Environment, Space Craft Systems and Dynamics,

Aero/Astrodynamic Engineering, Rocket Engineering, Cosmology, Origin of Universe and Life, Space Law and Business Development.

**PHY 210: Physics for Solid Earth**

**(3 UNITS)**

Origin, Shape, Structure and Major Divisions of the Earth, The Earth Main Magnetic Field and Its Distribution.

Electrical Theory of the Earth Core and Origin of the Magnetic Field Seafloor Spreading. Continental Drift and Plate Tectonics.

**PHY 215: Atomic and Nuclear Physics I**

**(3 UNITS)**

Electronic Structure of the Atoms Energy Levels, Paulis Exclusion Principle Quantum Oscillator, Bohrs' Correspondence Principle, Motion of the Nuclear, Separation Energies-Neutron Separation Energy.

Types of Nuclei – Isotopes Isotones Isomers

Nuclear Models – Liquid Drop Model and the Shell Model

Radioactivity – Radioactive Series

Radioactivity Decay Law – Decay Constant, Half – Life Average Life, Activity (Decay Rate), Radioactive Dating, Radiation Dosimeter

Artificial Radioactivity, Radioisotopes and Applications

Particle Disintegration Energies, Particle Ranges.

**PHY 301: Analytical Mechanics I**

**(3 UNITS)**

**Pre – requisite MTH 201, MTH 204**

Newtonian Mechanics, Motion of A Particle in One, Two and Three Dimensions, Systems of Particles and Collision Theory, Newtonian Gravitation, Conservative Forces and Potentials, Oscillation Central Force Problems, Accelerated Frames of Reference, Rigid Body Dynamics, Generalized Motion, Mechanics of Continuous Media.

**PHY 302: Analytical Mechanics II**

**(3 UNITS)**

**Pre – requisite PHY 301**

Degrees of Freedom, Generalized Coordinates Lagranges' Formulation of Mechanics, Application, The Calculus of Variations and the Action Principle, Hamilton's Formulation of Mechanics, Application in Variance and Conservation Laws, Oscillatory Systems, Including Damped, Forced and Coupled Oscillations, Normal Modes.

**PHY 303: Electromagnetism**

**(3 UNITS)**

**Pre – requisite PHY 201 and MTH 204**

Electrostatics and Magnetic Statics, Laplace's Equation and Boundary Value Problems, Multiple Expansions, Dielectric and Magnetic Material, Faraday's Law, A.C. Circuits, Maxwell's Equation Lorentz Covariance and Special Relativity.

**PHY 304: Electromagnetic Waves and Optics**

**(3 UNITS)**

**Pre – requisite PHY 303**

Maxwell's Equation and Electromagnetic Potentials, The Wave Equation, Propagation of Plane Waves.

Reflection and Refraction, Transmission Lines Girds and Resonant Cavities, Radiation, Geometrical Optics, Interference of Wave, Diffraction

**PHY 305: Quantum Physics (3 UNITS)**

**Pre – requisite PHY 201**

Wave – Particle Duality and the Uncertainly Principle, Basic Principle of the Quantum Theory, Energy Levels in Potential Well, Reflection and Transmission of Potential Barrier, Atomic and Molecular Structure and Reactions, Fission and Fusion, Magnetic Resonance, Elementary Particles.

**PHY 306: Statistical and Thermal Physics (3 UNITS)**

**Pre – requisite PHY 113 and PHY 305**

Basic Concept of Statistical Mechanics, Microscopic Basis of Thermodynamics and Application to Macroscopic Systems, Condensed State, Phase Transformations, Quantum Distributions, Elementary Kinetic Theory of Transport Processes, Fluctuation Phenomena, Applications.

**PHY 307/308: Experimental Physics II (2 UNITS)**

**Pre – requisite PHY 207/208**

A Year Series of Mini Courses on Important Experimental Techniques. Topics Covered Include Electronic, Optics, Electricity, Atomic, Molecular Nuclear and Low Temperature Physics, Statistics and Data Handling and Scientific Writing.

**PHY 314: Solid State Physics (3 UNITS)**

**Pre – requisite PHY 305**

Crystal Structure and Crystal Binding, Elastic Properties, Lattice Vibrations, Superconductivity.

**PHY 321: Industrial Training (IT) (6 UNITS)**

Students will be attached to Industry and Physics related Institutions for 12 Weeks e.g. Geophysics/Electronics, Research Institutions, Information Communication and Technology (ICT) and Radio/TV Institutions.

**PHY 401: Quantum Mechanics I (3 UNITS)**

**Pre – requisite PHY 305 and MTH 202**

The Formation of Quantum Mechanics in Terms of State Vectors and Linear Operators, Three-Dimensional Spherically Symmetric Potentials. The Theory of Angular Momentum and Spin. Identical Particles and the Exclusion Principle. Methods of Approximation Multielectron Atoms.

**PHY 402: Quantum Mechanics II (3 UNITS)**

**Pre – requisite PHY 401 and MTH 202**

Time-Independent and Time-Dependent Perturbation Theory, Scattering Theory, Elastic Potential Scattering, Green's Function and Partial Wave Methods, Selected Phenomena from Each of Atom Physics, Molecular Physics, and Solid – State Physics and Nuclear Physics are Described and then Interpreted Using Quantum Mechanics Models.

**PHY 403/404: Mathematical Methods in Physics (6 UNITS)**

**Pre – requisite MTH 202, MTH 204 and MTH 305**

Linear Algebra and Functional Analysis, Transformation in Linear Vector Space and Matrix Theory, Hilbert Space and Complete Sets of Orthogonal Functions, Special Functions of Mathematical Physics, The Gamma Function, Hyper Geometric Functions, Legendre Functions, Bessel Function, Hermit and Langerre Function, The Dirac Delta Function, Integral Transforms and Fourier Series, Fourier Series and Fourier Transforms, Laplace Transform, Applications of Transform Method to the Solution of Elementary Differential Equations of Interest in Physics and Engineering, Partial Differential Equation, Solution of Boundary Value Problems of Partial Differential Equation by Various Methods Which Include Separation of Variables, The Method of Integral Transforms, Sturm-Linville Theory, Uniqueness of Solutions, Calculus of Residues and Application to Evaluation of Integrals and Summation of Series, Application to Various Physical Situation, Which May Include Electromagnetic Theory, Quantum Theory, Diffusion Phenomena.

**PHY 407: Computational Physics (3 UNITS)**

**Pre – requisite MTH 222**

Use of Numerical Methods in Physics, Various Methods of Numerical Integration, Differentiation, Numerical Solutions of Some Differential Equations in Physics, Statistical Analysis of Experimental Data.

**PHY 411: Nuclear and Particle Physics I (3 UNITS)**

Nuclear Structure, Nuclear Properties, Nuclear Size, Nuclear Masses, Nuclear Forces, Nuclear-Nucleon Scattering, The Deuteron, Nuclear Models, Radioactive Decay, Alpha, Beta, Gamma Decays, Nuclear Reactions.

**PHY 423: Condensed Matter Physics (3 UNITS)**

Crystalline State, Theories and Methods of Crystal Growth, Cohesive Energy of Crystal Growth, Cohesive Energy of Crystals, Lattice Vibration (Rigorous Treatment), Vacancy Electrons Problems in Crystal, Electron Lattice Vibration, Superconductivity, High Temperature, Super Conductors, Electron Phenomena in Solids Magnetism, Paramagnetic of Uncompleted Shells, Paramagnetic Dispersion, Absorption and Resonance, Nuclear Magnetism, Ferromagnetism (Selected Topics) Crystal Lattice Defects, Selected Topics, Liquid State.

**PHY 455: Supervised Independent Research (Research Project) (6 UNITS)**

An independent research project selected by the student but supervised by a staff, will be carried out. Each student will produce a written report of the project and will be prepared to present a seminar on the project in the middle of the second semester to a departmental committee. The project report will be submitted and defended by the student at the end of the second semester.

**ACADEMIC PLANNING UNIT**

## **PREAMBLE**

The Academic Planning Unit is central to the academic development of a University because it is responsible for the planning and quality assurance functions of the University. The functions of the Academic Planning may be grouped into the following four categories.

### **A) PLANNING**

The Academic Planning Unit is charged with the following planning duties:

- Preparation of University annual recurrent budget in collaboration with the Bursary and the Budget Unit and with the co-operation of the other Departments and Units;
- Projection of student enrolment figures and corresponding staff strength;
- Performance analysis of the University's budget;
- Collection and analysis of information for planning purposes;
- Computation of full-time equivalents (FTE) for all programmes;
- Initiation and co-ordination of review of the University curricula in line with the exact NUC policy and trends in the academic world;
- Ensuring that the University operates within its strategic plan and co-ordinated development; and
- Working with colleges and departments to prepare, review and monitor their academic plans and identify areas for potential development.
- Keep up to date administrative records on admission, students enrolment, graduate output, staffing, and finance at all times. This assignment is carried out in collaboration with Registry and the other relevant Units and Departments/Colleges of the University.
- Ensure that Self Study Forms for all academic programmes due for accreditation are completed correctly and all the necessary information required are provided.
- Ensure that only programmes with National University Commissions approved Benchmark Minimum Academic Standards (BMAS) are allowed to run in the University.
- Keep themselves abreast of the BMAS and raise issues for review as appropriate.
- Ensure that the BMAS for each discipline is made available to all faculties, departments and widely circulated among academic staff in the University for Reference Purposes.
- Insist that University follow due process when applying for the establishment of new Units and Academic units and programmes in their Universities and ensure that approval is given by National Universities Commission before the commencement of any programme.
- Responsible for the completion and submission of application forms for the establishment of new units and academic programmes and splitting of programmes and units at all levels.

### **B) QUALITY ASSURANCE**



The Academic Planning Unit is expected to promote quality in the performance of the core business of teaching, learning and research in the University through periodic evaluation of its academic activities as follows:

- Co-ordinating the preparation of Academic Brief and Strategic Plan for the University;
- Guiding each Unit of the University on the implementation of the Academic Brief;
- Co-ordinating preparatory activities of the University for accreditation by NUC and other professional bodies;
- Periodic analysis of relevant data for performance evaluation of academic programmes of the University and for advising the University management as may be required;
- Analysis of data on staff and student enrolment;
- Promoting strong international linkages with foreign Universities;
- Ensuring compliance with national and institutional guidelines such as admission quotas; as contained in the NUC documents.
- Providing an office for interpretation of academic policies and provisions;
- Conducting feasibility studies to support cases for establishment of new academic programmes; and
- Oversight of and guidance on the process for considering specific proposals for new or reviewed awards ensuring that these reflect overarching faculty plans, the University's strategic priorities and market intelligence.

### **C) PUBLICATIONS AND STATISTICS**

The University Academic Planning Unit is responsible for the collection and collation of information for intra-institutional and national planning. Towards this end, it is responsible for:

- Maintaining a database of statistics on students and staff for use in planning, and other requirements;
- Collection, analysis and interpretation of data from relevant University Departments and Units;
- Providing periodic statistics to the Federal Ministry of Education, Nigerian University Commission, National Manpower Board, Federal Bureau of Statistics, Private sector organizations, NGS's and individual researchers on demand;
- Provision of information to the University Management on various University operations for internal planning by the University;
- Periodic update and analyzing data from relevant University Departments and Units for internal evaluation of institutional performance;
- Annually updating and analyzing data on the University;
- Guiding preparation of the University budget and subsequently, internal resource allocation within the University;
- Analysis and interpretation of University annual statistical trends;
- Publication of University records, statistics and research reports; and

- Documenting and storing information on academic programmes of the University.

#### **D) LIAISON**

The Unit liaises between the University, Regulatory bodies like the National Universities Commission, and other Professional regulatory bodies. It seeks clarification from the NUC and other bodies on academic matters and forward same to the appropriate sections of the University.

#### **Staff List**

<b>S/ N</b>	<b>Name of Staff</b>	<b>Designation</b>	<b>Qualification and Date</b>
1.	Dr. Angela O. Idonije	Deputy Registrar	B.Sc. 1987, PGDE 1993, M.Ed. 2006, Ph.D 2015
2.	Miss Jennifer Ijesurobo	Admin. Officer II	B.Sc. 2007
3.	Adama Victor	Corps Member	B.Sc. 2014

## **HUMAN HELP SERVICES UNIT**

### **CREATING AWARENESS IN VARIOUS COUNSELLING SETTINGS AND SERVICES**

*Human Help Service is a field of endeavour that helps students and staff cope with their internal and external problems in psychological and behavioral patterns through counselling services.*

#### **STAFF**

1. The Desk Officer of the Human Help Services Unit is Festus Enosakhare Osaseri. Festus Osaseri is a both British and an American trained Educationalist and Theologian. He has been in the church setting and Education institutions as a pastor, counsellor, lecturer and teacher for 46 years. An ordained Baptist Minister in 1976, Festus Osaseri has served at central Baptist church, Carson, California, U.S. A. and Calvary Baptist church, Cardiff, U.K. – as a pastor and a counsellor amongst various nationals. This is his seventh year in Igbinedion University, Okada.
2. Oluwo, Zainab Olaitan is a Corper serving in the Unit. She holds the Bachelor of Science degree in Social Work and Community Development. She helps in interacting with the female students, inviting those that need attention for counselling and physical therapy.
3. Aigheiyisi, Osayomore Rita is the Secretary/Typist taking care of the Unit with respect to correspondences and communication with students.

#### **OBJECTIVES AND AIMS OF THE UNIT**

The overall aim of counselling is to provide an opportunity for the client to work towards living in a more satisfying and resourceful way. The term ‘counselling’ include the work with individuals, pairs or groups of people who are often but not always, referred to as ‘client’. The object of particular relationships will vary according to client’s needs. Counselling may be concerned with developmental issues, addressing and resolving specific problems, making decision, coping with crises, developing personal insights and knowledge, working through feelings of the inner conflict or improving relationship with others. The counsellor’s role is to facilitate the client’s work in the ways that respect the client’s values, personal resources and capacity for self determination.

#### **VISION STATEMENT**

- ❖ To be a leading center for redemption of positive character and behaviour change among University students and staff.
- ❖ To restore the whole personality and dignity of University students and staff.

#### **MISSION STATEMENT**

- ❖ To pursue the worthiness of behaviour change which is one of the foundational principles of awarding degree in higher institutions worldwide.

- ❖ To enhance human development and relationship through counseling research information that promotes discipline.
- ❖ Endeavour to help students and staff cope with their internal and external problems in psychological and behavioural patterns.

### **PROBLEM**

Some of the student's problems targeted for solution at the Unit include: Academic problems-effective study habits/learning; Career problems and information; Marriage and family, respect for elders/teachers; Drug addiction, sexuality and HIV/AIDS problem; Crisis and emergency problem; Information and orientation services; Education and information, on the job training; Safety prevention and health information; Social-personal or human development; Continuous assessment, cumulative records; Student employments; Extra curriculum activities; Treatment of drug use, abuse and addiction; Basic intervention - through hot line and emergency clinics, or missing person and suicide prevention; Birth control, pregnancy, abortion, STD, human sexuality; Part time work graduate school admission, legal aid, cultism, HIV and SARS (Severe Acute Respiratory Syndrome); Career-services-job seeking; Personal and academic problems; Domestic and personal violence (child bearing, family planning, parenting, sex education and therapy), Rape, sexual assault, sex deviants, school violations; Self help group-divorce anonymous, alcoholic anonymous, parents with partners, the compassionate friends; Substance abuse (alcohol, nicotine drugs, smoking); Cultism - stoppage of membership.

### **VENUE AND SERVICE HOURS**

The Human Help Services Unit is situated at the PCF Students' Affairs Block of the Igbinedion University Human Help Services Department. Office hours are from 9.00am to 4.00pm, Monday to Friday; Hostels' Visitation/Counselling between 5.00pm and 8.00pm.

Crisis services can be treated at any time through telephones – 08076702689; 08120782197; 08114718508; 07062169053.

Services are rendered individually and as group.  
Privacy and confidentiality are guaranteed.

## DIVISION OF GENERAL STUDIES

### NEW MINIMUM BENCHMARK FOR GENERAL STUDIES PROGRAMME

S/ N	COURSE CODE	COURSE DESCRIPTION	UNITS	DEPT. SUPPLYING TEACHING STAFF
1.	<b><u>1<sup>st</sup> SEMESTER, 100L</u></b>  <b><u>GST 111</u></b> Communication in English I	Effective communication and writing in English, Language skills, writing of essay answers, comprehension, sentence construction, Outlines and paragraphs, collection and organization of materials and logical presentation, Punctuation.	2	Department of English
2.	<b><u>GST 112</u></b> Logic, Philosophy and Human Existence	A brief survey of the main branches of philosophy. Symbolic Logic, Special symbols in symbolic Logic-conjunction, negation, affirmation disjunction,	2	Department of Sociology
3.	<b><u>GST 113</u></b> Nigerian Peoples and Culture	Study of Nigerian history, culture and arts in pre-colonial times, Nigerian's perception of his world, culture areas of Nigeria and their characteristics, Evolution of Nigeria as a political unit, Indigene/settler phenomenon, Concepts of trade, economic self-reliance, social justice, Individual and national development, Norms and values, Negative attitudes and conducts (cultism and related vices), Re-orientation of moral environmental problems.	2	Department of Sociology
4.	<b><u>2<sup>ND</sup> SEMESTER, 100L</u></b>  <b><u>GST 121</u></b> Use of Library, Study Skills and ICT	Brief history of libraries, Library and education, University libraries and other types of libraries, study skills (reference services). Types of libraries materials, using library resources including e-learning, e-materials: etc, Understanding library catalogues (card, OPAC etc) and classification, copyright and its implications, Database resources, Bibliographic citations and referencing. Development of modern ICT, hardware technology software technology, Input devices, storage devices, Output devices, communication and internet service, word processing skills (typing,	2	University Library Depts. of Computer Science, Computer Engineering and ICT Unit.

		etc.)		
5.	<b><u>GST 122</u></b> Communication in English II	Logical presentation of papers, phonetics, Instruction on lexis, art of public speaking and oral communication figures of speech, précis, Report writing.	2	Department of English
6.	<b><u>GST 123</u></b> Communication in French	Introduction to French, Alphabets and numeric for effective communication (written and oral), Conjugation and simple sentence construction based on communication approach, sentence construction, comprehension and reading of simple texts.	2	Department of African and Foreign Languages
7.	<b>1<sup>ST</sup> SEMESTER, 200L</b> <b><u>GST 211</u></b> History and Philosophy of Science	Man – his origin and nature, Man and his cosmic environment, scientific methodology, Science and technology in the society and service of man, Renewable and non-renewable resources – man and his energy resources, Environmental effects of chemical plastics, Textiles, wastes and other material, Chemical and radiochemical hazards. Introduction to the various areas of science and technology. Elements of environmental studies.	2	Departments of Chemistry, Biological Sciences, Chemical Engineering, Civil Engineering and Elet/Elect Engineering.
8.	<b>2<sup>ND</sup> SEMESTER, 200L</b> <b><u>GST 221</u></b> Peace Studies and Conflict Resolution	Basic concepts in peace studies and conflict resolution, peace as vehicle of unity and development, conflict issues, Types of conflict, e.g. Ethnic/ religious/ political / economic conflicts, Root causes of conflicts and violence in Africa, Indigene/settler phenomenon, Peace – building, Management of conflict and security. Element of peace studies and conflict resolution, Developing a culture of peace, peace mediation and peace keeping Alternative Dispute Resolution (ADR). Dialogue/arbitration in conflict resolution, Role of international organizations in conflict resolution, e.g. ECOWAS, African Union, United Nation, etc.	2	Departments of Political Sciences, International Relations and College of Law.

## COMMUNITY SERVICE PROGRAMME

### 1.0 PHILOSOPHY

In line with one of its functions, Igbinedion University, Okada aspires to develop flexible programmes that are responsive to local/community needs and beyond. This could be in the form of social work, environment tending or mentoring.

### 2.0 VISION

To become a University with out-flowing excellence in service through practical and physical activities in response to communal and localized human needs, and to graduate students imbued with the spirit of community service and development.

### 3.0 MISSION

To take what Igbinedion University has to the communities in order to solve the diversity of challenges in Okada and its environs using students and staff, and to register a significant presence in the host community.

### 4.0 OBJECTIVES

- I. To regularly carry out a survey of Okada and its environs, in order to identify areas of need with a view to contributing to their development.
- II. To provide such lectures and instructions for persons not being members of the University, but residing in the Okada environs.
- III. To offer wide opportunities for extra-mural education and community service to both staff and students of Igbinedion University, Okada.

### 5.0 ELIGIBILITY, CURRICULUM AND DURATION OF COMMUNITY SERVICE PROGRAMME

All second year students of the University are eligible and required to register for the programme which shall run for two Semesters beginning from the First Semester of second year:

Year II – First Semester		
Course No.	Title	
IUO/2CS.1	CONCEPT, PRINCIPLES & PRACTICE OF COMMUNITY SERVICE	
S/N	Topics	Week
1.	The nature and scope of community service	I
2.	Vocational theories of community service	II
3.	Important tools for community service	III
4.	Cultural and structural components of community service	IV
5.	Community service mobilization implications for community relations	V
6.	Group behaviour and leadership in community service	VI
7.	Relevance of students' participation in community service	VII

8.	The social worker and community service	VIII
9.	Community service and national development	IX

**Year II – 2<sup>nd</sup> Semester: IUO/2CS.2 Community Service Project**

**6.0 COMMUNITY SERVICE PROJECTS**

The identification of possible projects that students in the respective departments may engage in should be at the discretion of each department/discipline.

However, possible projects could include:

- ❖ Farming
- ❖ Road building and maintenance
- ❖ Landscaping
- ❖ Construction of concrete footpaths, seats for recreation
- ❖ Carrying out health outreach programmes on such issues as basic hygiene, nutrition, immunization, HIV/AIDS pandemic, screening for hypertension and breast cancer, etc.
- ❖ Planting of trees to serve as shades and to prevent erosion
- ❖ Construction of fountains in public places
- ❖ Lawn mowing, clearing drainages and disposing of garbage
- ❖ Play productions on the dangers and implications of such anti-social phenomena as cultism, hostage taking, vandalization of public utilities, etc.

**7.0 MODALITIES/ADMINISTRATION OF THE PROGRAMME**

**I. SERVICE PROJECTS**

- ❖ The proposed projects should emanate compulsorily from each department to the Dean of the College.
- ❖ The College should screen or merge these for one interdepartmental project from the College.
- ❖ The College proposals should be sent to the University Committee for harmonization and forwarding to appropriate organs of the University for approval.
- ❖ It is suggested that for now, there should be only one project per College/one project for all years II students across the Colleges..

**II. ORGANIZATION**

Each College should appoint a Community Service Programme Co-ordinator who is responsible to the Dean and through him to the Chairman, Committee on Community Service.

- ❖ The Chairman reports to appropriate organ of the University and/or the Vice Chancellor.



### III. SERVICE TIMETABLE (Designation of Days/Hours of the Week for Engagement)

Every Wednesday afternoon (1.00 p.m. – 5.00 p.m.) is reserved and made free for community service.

#### 8.0 GENERAL REGULATIONS

- I. For the purpose of uniform grading, the following, among others, are defined:
  - ❖ What constitutes a standard workload.
  - ❖ What is the indicator for quality of service/job.
- II. A comprehensive roster system is in place for recording individual student performance.
- III. For accountability, all financial transactions in the course of carrying out the project(s) should be communicated to the Central Community Service Programme. Appropriate sanctions are meted out to financial defaulters.

#### 9.0 EXAMINATION REGULATIONS

- I. The Community Service course is both examined under conventional written examinations and through actual participation in the practical projects. Each student participant is therefore **required** to participate actively in the course right from the beginning of the programme.
- II. Evaluation is not a one-off event but a continuous process which is done on weekly basis.
- III. A written report is to be submitted at the end of the Second Semester of the programme in June.

The student's report which should be properly articulated at the end of the execution of assigned project(s), should emphasize, *inter alia*

  - ❖ The nature and importance of the project carried out;
  - ❖ Problem(s) encountered;
  - ❖ Suggested solution(s) to such problem(s); and
  - ❖ Recommendation(s) towards the modification of the University Community Service programme, if any.
- IV. However, existing University examination regulations are strictly applied where applicable.
- V. Each student is mandatorily **required** to participate and complete the service, as it is a **basic** requirement for graduation.

### 9.1 Scoring and Grading

The following grading system shall be used in assessing students registered for the Community Service Programme:

#### **Practical Work**

a.	Attitude to work	-	10%
b.	Punctuality	-	5%
c.	Diligence	-	5%
d.	Creativity	-	10%
e.	Quality of work	-	20%
	<b>Total</b>	-	<b>70%</b>
f.	Student Written Report	-	30%
	<b>Grand Total</b>	=	<b>100%</b>

### 9.2 **Certificate of Participation**

A certificate of participation is awarded to each successful participant.

## CENTER FOR ENTREPRENEURIAL STUDIES

### Entrepreneurial Studies Committee

1. Prof. (Mrs.) Tonye G. Okorie	Deputy Vice Chancellor	Chairperson
2. Dr. N. A. Liman	HOD, Bus Admin.	Director CES
3. Dr. S. Adeniran	HOD, Accounting	Member
4. Dr. (Mrs.) Okafor-Elenwo	HOD, Biological Sc.	Member
5. Mr. C. Nwosu	HOD, Mass Comm.	Member
6. Mrs. Dolly Omoregie	College Officer, NAS	Secretary

### Academic Staff List EPS223: Introduction to Entrepreneurial Studies [(2 credits) 2<sup>nd</sup> semester course

S/N	NAME	RANK	QUALIFICATION
1	Nuruddeen A. Liman	Director, EPS	B. Sc., MBA., PhD.
2	Daniel U. Ibe	Senior Lecturer	LLB., LLM., PhD.
3	David Umobuarie	Lecturer 11	B. Sc., MBA.
4	Mathew Egbochie	Lecturer 11	B. Sc., M. Sc.

IUO's Senate has approved the establishment of a *Center for Entrepreneurial Studies* (CES), equipped with:

#### 1) ADMINISTRATIVE WING:

The administration wing is where the activities of the Center are coordinated. The wing consists of:

- a) Director's Office; and
- b) Administration Office.

#### 2) AUDITORIUM/HALL WING:

The auditorium wing conducts group lectures, exhibitions, demonstrations and syndicate classes. It is also equipped with state-of-the-arts training facilities, including:

- a) Plasma colored TVs;
- b) CD and DVD Players;
- c) Projectors for power-point presentation; and
- d) Internet connectivity.

#### 3) EPS SPECIALIST/REFERENCE LIBRARY

The Senate has also approved a specialized/reference library for the Center. The library stocks books, journals, magazines, DVDs, CDs, Videos, Cassettes, etc on Entrepreneurial Studies.

### **Objectives of the CES Center**

The key objective of the Center is to train students on skills acquisition for livelihood, also:

- a) Train students as Entrepreneurs, who would employ people from the labor market, rather than be patrons of the elusive labor market themselves.
- b) Train students imbue the spirit of service, progress and development—for themselves and the society.
- c) Inculcate in the students, the values of *self* and *social* survival; ensuring that the nation is not disadvantaged in context of global economics.
- d) Engage in research for knowledge and its applications, in the area of Entrepreneurial Studies.

**OFFICE OF THE VICE CHANCELLOR**

**LIST OF STAFF**

<b>S/N</b>	<b>Name</b>	<b>Designation</b>	<b>Qualification(s)</b>
1.	Rev. Prof. Osaghae, E. Eghosa	Professor/Vice Chancellor	*B.Sc., University of Ibadan; 1979 *M.Sc., University of Ibadan; 1981 *Ph.D., University of Ibadan; 1986
2.	Idonije A.O.	Deputy Registrar (Academic Planning)	*B.Sc. (Zoology), BENSU, 1984' * PGD UNILAG, 1996; * M.ED (HNAUB), Cotonu, 2005; * Ph.D (IUO) 2015.
3.	Ilugbo Obajide	PRO/PA to VC – Protocol	*OND (Mass Com.),1990; Cert. In Marketing; * HND (Mass Comm.), 1994 *NIPR, 2011 * ISMN, 2011 *PRINCE 2 Project Mgt (2011 APCON 2016
4.	Eboh-Onokwe, Lucky	Principal PRO	* Diploma, London Chamber of Commerce & Industry (LCCI), 1985; *DPA, Uniben, 1993 * B(PA), Uniben, 1998 * M(PA), Uniben, 2001
5.	Okika, Nnaemeka	Senior PRO	* HND, Fed. Poly, Oko, 1993 * PG.D, Uniben, 2003 * MPA, Uniben, 2006
6.	Ikyume, Chiahemba James	Principal Internal Auditor	* B.Sc (Accounting), BSU, 2003 * NIM, 2006 * ACA, 2011
7.	Columbus Aibangbee	Assist. Registrar/PA to VC – Admin	* B.A (History), Uniben, 2000
8.	Ilawagbon O.	Senior Confidential Secretary	* OND (Sec. Admin.), Uniport, 2000 * BPA, Uniben, 2012; * M.Sc (Pol.Sc./Pub. Admin.), IUO, 2014
9.	Idemudia, Wesley Osaro	Studio Engineer	*OND (Mass Com.),1990 * HND (Mass Comm.), 1994 *NIPR, 2011
10.	Edogiawerie, Happy	Caretaker (Cleaner)	* SSCE, Okada Grammar School, 1998
11.	Yesuf, PendoTopa	Senior Trainee Operator	*Primary School Leaving Testimonial/Certificate, 1976
12.	Omorotionmwan, Monday	Senior Craftsman/Artisan (Cameraman)	* SSCE, Midwest Sec. School, 1999
13.	Kumuyi Sunday	Driver/Mechanic	
14.	Edu Thomas Ibuo	Cook/Housekeeper	
15.	Akinola Oluwasegun	Driver	

## OFFICE OF THE DEPUTY VICE CHANCELLOR

### LIST OF STAFF

Professor Charity Udokamma **EMAVIWE** - Professor/Deputy Vice Chancellor

1. LL.B (Hons), University of Ife (1984)
2. B.L. Nigeria Law School (1985)
3. LL.M (Bendel State University (BENSU) (1989)
4. Ph.D, Igbinedion University, Okada (IUO) (2012)

Charity **EDOKPAYI** - Principal Confidential Secretary II

Diploma, Staff Training Centre (1994)  
Higher Diploma, Staff Training Centre (1996)  
Certificate in Computer (1998)  
B. A. (Hons), University of Benin (2014)  
M. Sc. (Hons), Igbinedion University Okada (in view)

Mr. Okeowo Joshua **ADEYEMO** - Driver / Mechanic

Senior Secondary School Certificate (1991)  
Trade Test (2007)

## THE REGISTRY AND UNIVERSITY ADMINISTRATION

### LIST OF REGISTRY STAFF

<b>S/N</b>	<b>Names</b>	<b>Qualification</b>	<b>Designation</b>
1.	Mr. Edwin O. OKORO, MNIM	B.A. Philosophy & Pol. Science U.I. 1979 MILR (Master of Industrial & Labour Relations). U.I 1995	Registrar
2.	Mr. Lucky P.E. JAGBEDIA	B.A. History, UPH 1988 M.A. History UPH 1991	Deputy Registrar, (council & General Administration)
3.	Mrs. Irene IGBINOSA	B.Ed. History, UNIBEN 1985 M. Sc. Sociology, IUO 2009	Principal Assistant Registrar, (Academic Affairs)
4.	Mr. Felix Olushola JEGEDE	B. A. Philosophy, UNICAL 1980; NIJ Cert. 1988	Senior Assistant Registrar (Personnel)
5.	Mr. Olugbenga JEGEDE	B.Sc Business Administration ABU 1998	Assistant Registrar (Admissions)
6.	Mr. Daniel O. IGBINEDION	B.Sc Accounting, IUO 2004	Admin Officer I (Alumni Relations)
7.	Mr. Oghomwen Austin OMOGIADE	B.Sc Public Administration AAU 2009; M.Sc. Political Science and Public Admin., IUO 2014	Admin Officer II (Senate)
8.	Mr. Kehinde Titilade ODOGIYON	B.Sc. Agric Extension, UNAB, 2011	Admin. Officer II (Academic Affairs)
9.	Ms Julie AIWANSOBA	B.Ed. Economics Education, UNIBEN 2005	Admin Officer II (Personnel)
10.	Mr. Samuel U. OKUNDAYE	Secondary Modern School Certificate, 1965 Certificate in Typewriting, 1973	Principal Confidential Secretary II (Registrar's Office)
11.	Mrs. Eucharia A. ABOLARIN	NCE, NTI Kaduna 2006 Advanced Secretarial Duties, NABTEB 2009	Confidential Secretary II (Personnel)
12.	Ms Helen EZEANA	WASC 1996 Computer Appreciation, 2003	Senior Computer Operator (Academic Affairs)
13.	Miss Victoria EKUN	Diploma in Computer, Agbor 2006	Computer Operator (Council & Gen. Admin.)
14.	Mr. Charles EKHATOR	WASC 1985 & 1986	Senior Clerical Officer (Personnel)
15.	Mr. Benedict AGHARUERE	Primary School Leaving Certificate, 1970 Trade Test 2002 & 2003	Transport Supervisor (Registrar's Office)

16.	Mrs. Hannah KUSHONE	FLC 1980	Caretaker (Registry)
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In Universities, world-wide the Registry Department serves as the hub of Administration. The Registrar, as the Chief Administrative Officer is responsible, for the day-today administrative work of the University under the guidance of the Vice Chancellor.

The Registry Department of Igbinedion University is made up of the following administrative units:

- 1) Office of the Registrar
- 2) Council and General Administration
- 3) Personnel and Establishment
- 4) Academic affairs.

Understandably, the immediate and primary interest of students would be the Academic Affairs Unit, made up of Senate, admissions, Examinations and Records and Colleges Liaison.

- ❖ Regulate and control all teaching, courses of study and determines the conditions for admission into the various degrees of the University.
- ❖ Prescribe the Rules and Regulations concerning academic matters.
- ❖ Prescribe the conditions under which persons may be admitted to the University as students or refuse admission.
- ❖ Regulates all University examination
- ❖ Regulate the use of academic dress
- ❖ Regulate and superintend the discipline of students of the University.

Igbinedion University Operates the Collegiate system and each College Administration is headed by a representative of the Registrar and he/she is designated as “College Officer”.

It is advisable and desirable that each student makes some serious effort to familiarize himself/herself with the rules and regulations that govern the respective aspects the University Community Life. It would be progress and pleasure if they are strictly adhered to and actions that impugn on the University’s integrity are avoided. For he who tears his garment of honour the mask of shame.

Knowing you all to be decent and disciplined young men and women, you would choose the path of honour and always would take your studies as the only central reason for being here. Remember that a man is not rewarded for having a brain, but for using it and knowledge is like a garden if it is not cultivated it cannot be harvested.

It is necessary to also point out that the parameters for the award of University degree are an adjudged good character and a proven quality of learning. The University does



not grant a degree if a student falls short in any of these. Therefore each student is urged to be careful in his/her activities in the course of study here, as regrets, like grand, children come much later.

## BURSARY DEPARTMENT

S/N	NAME	QUALIFICATION	DESIGNATION
1.	Edogiawerie M. Nosa	B.sc (Econs) M.Sc.(Accounting) FCTI, FCA	Bursar
2.	Mrs. V.U. Dawson	B.Sc Accounting CNA Post Graduate Dip. Accounting Digital Bridge Computer	Chief Accountant
3.	Mr. Edoigiawerie, T.L.	B.Sc. Accounting, PGD Fin. Mgt, MBA Finance Mgt. M.Sc. Acctg. ACA	Chief Accountant
4.	Mr. M.A. Diai	B.Sc. Bus. Admin., MILR, MNIM, ACMA	Chief Executive Officer
5.	Mrs. V.U. Sule	CNA, MS.c Business Admin., BS.c Accounting.	Principal Accountant
6.	Mr. Fadejin, Taiwo	HND (B&F), MBA (Bus. Admin.) M.Sc. (Bus. Admin.) CNA	Principal Executive Officer
7.	Mrs. Toyin Omowaye	HND Acctg. PGD Acctg., MBA Finance	Senior Accountant
8.	Mrs. R.O. Ogbeifun	HND (Bus. Admin.), PGD (Bus. Admin.), M.Sc. (Bus. Admin.) Ph.D (Management in view)	Asst. Chief Executive Officer (Accts.)
9.	Mr. Adunola, Oyeyemi Paul	HND (Accounting), MBA (Finance), PGD (Finance) ICAN (In View)	Senior Accountant
10.	Mr. Ogungbenle, S. Kayode	B.Sc., M.Sc., MBA, AAT ACA, ACTI	Senior Accountant
11.	Mr. Vincent Ogbeide	M.Sc(Information Tech- nology), B.Sc (Computer Sci.)	Analyst/Programmer II
12.	Mrs. F.E. Phillips	B.Sc. (Bus. Admin.), Pitman London	Principal Conf. Sec. II
13.	Mrs. Erekpitan O. Dumka-Deede	B.Sc. (Economics), MS.c (Bus. Admin)	Senior Executive Officer (Accounts)
14.	Oseh Doris Onize	OND(Secretarial Admin.) HND (Secretarial Admin.)	Senior Conf. Secretary
15.	Mr. Ewemade, Goddy	OND (Accounting)	Executive Officer
16.	Mrs. Tessy O. Isibor	BS.C (Accounting)	Accountant II
17.	Mrs. Priscilla O. Jagbedia	BS.C (Accounting)	Accountant II
18.	Miss Rosemary I. Odeh	BS.C (Accounting)	Accountant II
19.	Mr. Osaretin Peter	HND (Bus. Admin), PGDM	Executive Officer

	Egharevba	(Management), Bs.c (Bus. Admin.)	
20.	Mr. Otokiti, Francis	First School Leaving Certificate	Driver
21.	Miss Ezegede Rose	First School Leaving Certificate	Cleaner

## **INTRODUCTION**

The Bursary department is the financial nerve centre of the University and is charged with the responsibility of handling all financial transactions of the University.

## **FEE STRUCTURE**

The fees payable in the University are divided into two:

- (a) School fees; and
- (b) Sundry Charges

### **(A) SCHOOL FEES**

School fees are of three categories, namely

#### **Category A**

Basic Medicine, Pharmacy, Law and Engineering courses – Tuition N610,000, Accommodation, N100,000, Other charges N110,000.

**Total N820,000.**

#### **Category B**

Clinical Medicine (200 Level and Above) – N3000,000.00

#### **Category C**

Accounting, Banking and Finance, Computer Science and Nursing  
Tuition – N550,000, Accommodation –N100,000, Other Charges N110,000

**Total N760,000**

#### **Category D**

Other Programmes not indicated in (i & iii) are in this categories. Tuition N430,000, Accommodation N100,000 Other charges N110,000

**Total N640,000=**

## **PAYMENT OF SCHOOL FEES**

The above fees are paid through either Zenith Bank, Access Bank or First Bank using the e-tranzact platform. The University official receipts will be issued to every student on submission of e-tranzact slip to the College Finance Officer in the Bursary department. These receipts are to be handled with care as you may be required to produce them as occasion may demand.

**(B) SUNDRY CHARGES**

- (1) Registration Fee – ₦10,000.
- (2) Science Bench Mark Support Fee – ₦5,000 (For 100 level Science Students only).
- (3) IUIITS (Engineering Students only) – ₦10,000.
- (4) Late Registration Fee of ₦10,000 – paid by students who fail to register within record time.
- (5) Caution Fee – ₦10,000
- (6) Development levy - N10,000
- (7) Municipal Fee – N30,000 (100 level) N40,000 (200 level and above)
- (8) PCF (Parent Consultative Forum Fee) – ₦20,000.
- (9) Pharmacy Lab Support Fee (200Level and above N10,000
- (10) Book Deposit – N15,000

**PAYMENT OF SUNDRY CHARGES**

- (a)** Payment for items (1) – (7) above is to be made at ABC Microfinance Bank Ltd, Okada Account with Zenith Bank and Access Bank as follows:
- 1) Zenith Bank Account Name: ABC Microfinance bank Account No.: 1013139941
  - 2) Access Bank Account Name: ABC Microfinance Bank Account No.: 0040486613 while the PCF fee is to be paid into Zenith Bank Plc A/C. No. 6114401984.
- (b) Payment of item 8**  
Zenith Bank Account Name: ABC Microfinance bank Account No.: 1013139941.
- (c) Payment of 9**  
Zenith Bank Account Name: Dept. of Pharmacology bank Account No.: 1014506364.
- (d) Payment of item 10**  
Zenith Bank Account Name: ABC Microfinance bank Account No.: 1013139941

There are also departmental dues to be paid at the level of the department or College.

### **PRE-CONDITION FOR WRITING EXAMINATIONS**

Students are expected to pay at least 50% of School fees and 100% of Sundry Charges before they are allowed to sit for 1<sup>st</sup> Semester Examinations. All fees must be paid before Students can sit for 2<sup>nd</sup> Semester Examinations.

### **OFFENCES AND PENALTIES**

- (1) Students who fail to present their e-tranzact slip to the Bursary department within a maximum period of two weeks for official receipt will pay a fine of ₦10,000.
- (2) Forging of University official receipt or e-tranzact slip attract outright expulsion from the University.

**NOTE:** The above fees (School fees and Sundry Charges) can be changed by the University at any time and the student duly informed.

**Edogiawerie M. Nosa**  
Bursar

## **UNIVERSITY LIBRARY**

### **Information on Library Resources**

#### *Introduction*

Igbinedion University, Okada, runs a Collegiate System that operates from 3 (three) campuses. The campuses are: The Main Campus; The College of Health Sciences Campus; and the Crown Estate. In line with this structure, the University Library has also adopted the collegiate system in administering the library. The Colleges are as follows:

College of Arts & Social Sciences (CASS)  
College of Business & Management Sciences (CBMS)  
College of Engineering  
College of Health Sciences  
College of Law  
College of Natural & Applied Sciences  
College of Pharmacy

Each of the Colleges has a vibrant, well stocked Library. In addition to the College Libraries, there is also a Department of Nursing Library as well as the new Alumni Centre Library at the Crown Estate which acts as a reading room as at present.

In all of this, it is necessary to observe that the Main Library acts as the administrative and technical headquarters of the University Library system. It is the seat of the University Librarian from where he coordinates all of the other libraries in the system. All materials are acquired and processed centrally in the Main Library and thereafter they are distributed to the other satellite libraries according to the nature and type of materials.

#### ***Functions of the Library***

In the law establishing the Igbinedion University, Okada, objects (objectives) of the university are stated as follows:

- To train qualified personnel imbued with the spirit of service and development;
- To offer wide opportunities for higher education to all persons...
- To train scientists, engineers, doctors, teachers, economists, lawyers and other professionals....;
- To carry out research in problems relating to the development of the national economy, science and technology and culture and to advance knowledge;
- To train teachers and academic research staff for the universities and other higher educational institutions;
- To promote scientific knowledge and disseminate its results for socio-economic benefits;
- To undertake any other activities appropriate for a university of the highest standard.

Against the foregoing background, therefore, the objective of the University Library is the provision and proper organization of teaching, learning and research materials in all formats and in all disciplines in the university for the realization of the objects as enunciated in the enabling law. In addition to the curative functions in providing these materials, the library also provides the enabling conducive space for collaborative study, learning, research and knowledge advancement.

### ***Staffing***

#### **University Librarian**

Y. A. Izevbekhai, B.Ed (Hons) (Georg) (UI), PG Dip. Lib. (UI), CLN

#### **Senior Librarian**

D. A. Idada, NCE, B.Sc (LS) (Chem/Libr) (BUK), CLN

#### **Librarian I**

S. B. Bamijoko, Dip. Lib. (UI), BLIS (UI)

Abiola Oyewo, LLB (OAU), BL, MLIS (UI), LLM (OAU) CLN

#### **Graduate Assistants**

V. Ekhaguosa, B.Sc (Ed) (UNIBEN)

E. Egharevba, B.SC (Lis) (AAU) CLN

Mary Irughe, BLS (Ed) (DELSU) CLN

#### **Higher Library Officers**

I. Omotoso, Dip. Lib. (UNIBEN)

J. Adeyemi, Dip. Lib. (UNIBEN)

M. Iguma, Dip. Lib. (UNIBEN)

#### **Principal Library Assistants**

F. Ojaide, (SSCE)

C.S. Kalu, (SSCE)

#### **Senior Library Assistants**

E. Ovuoroye, (SSCE)

B. Nkemka, (SSCE)

Osamudiamen Paul, (SSCE)

#### **Library Assistant**

Nathaniel E Amafor, (SSCE)

#### **Chief Porter**

Lucky Nwaiwu, (Primary School Leaving Certificate)

#### **Senior Porter**

Monday Ojabe, (SSCE)

Agheyisi, Ernest Onaiwu, (SSCE)

**Porter**

Mary Amune, (SSCE)

**Caretaker**

Mabel Joseph, (Primary School Leaving Certificate)

**Confidential Secretary**

Dinah Ibrahim, Diploma (Edo State Poly)

**Driver**

Michael Airhuoyuwa, Trade Test I, II, III.

***Library Policy******The Budget***

For the current year, there is a library book budget of N7 000 000. 00 and a library automation budget of N5 000 000. 00, making a combined library budget of N12 000 000. 00.

**Collections development**

The annual university library book budget is to be shared in the following ratio: 40% of the library's annual budget is for monographic publications and 60% is for journals.

Of the 40% for books, the rule of equity prevails as this money is shared in a way that allows, as much as possible, for equality of disciplines/courses/programmes.

For journals, with available resources permitting, the library shall subscribe to one(1) foreign journal and one (1) local journal per department and subscriptions shall be maintained continuously over several years until reviewed or the journal ceases publication.

1 set of multi-volume work and 3 copies of a title are to be purchased. For heavily used books, two(2) additional copies will be acquired and placed on the Reserved Collection.

**Lending**

Until there is a substantial improvement in the library's holdings, the lending policy shall be as follows:

Students: 1 book for 2 weeks

Teaching Staff: 2 books for 4 weeks;

Non-Teaching staff: As for students above.

Please note that journals, law reports and reference materials can only be used in the library. They are therefore not covered under the current lending policy of the library.

Reserved Collection: Books that are heavily used will be placed on the reserved collection either on the recommendation of the Course Lecturer or based on our own circulation records. Books so placed can only be used in-house and on an hourly basis.



### **Cataloguing & Classification**

From inception, the Library of Congress (LC) Classification Scheme has been in use except for the Law Library which uses Elizabeth Moys's (K) Law Classification Scheme.

As an extension of the LC schedules, the Library of Congress Subject Headings (LCSH) is used in identifying the subject headings for each book classified. For descriptive cataloguing, we have adopted the second edition of Anglo-American Cataloguing Rules (AACR II).

We also use the list of Cutter tables in cutting class marks for specificity.

### ***Opening Hours***

Main Library; During Session

8. 00am - 6. 00pm (Monday - Friday)

8. 00am - 4. 00pm (Saturday)

During Vacation:

8. 00am - 4. 00pm (Monday - Friday);

Please note that the same opening hours are maintained in both the Medical and Law Libraries. The Alumni Centre Library, however, operates an 8. 00am to 12. 00 midnight opening hours from Monday - Friday.

### ***The Budget***

For the current year, the Library has a budget of N7 000 000. 00 (Seven million naira) for books and journals; and N5 000 000. 00 (Five million naira) for Library Automation.

### **Professional services offered by the library**

The professional services offered by the library include:

1. Circulation services
2. Virtual Library
3. Reference services
4. Reprography
5. Internet services
6. Inter-library loans
7. Current awareness services
8. Online Public Access Catalogue
9. On-line e-journal access, (JSTOR, HINARI, OARE)
10. Provision of seating and study facilities
11. Reserved books services
12. Newspapers, magazines and students' projects
13. Past semesters/sessions' examination question papers
14. Centre for CBT: JAMB & internal university exams.

**THE LIBRARY,  
IGBINEDION UNIVERSITY, OKADA**

UNIVERSITY LIBRARY IGBINEDION UNIVERSITY OKADA		BOOKS (VOLUMES)	JOURNALS		LINEAR FEET	SEATING CAPACITY		COMPUTERS NO. OF
			FOREIGN	LOCAL		College Library	Main Library	
MAIN LIBRARY	CASS	2,821	554	369	432	-	200	-
	CBMS	2,035	527	352		-	150	-
	ENGINEERING	1,443	446	241	216	-	150	-
	NAS	1,353	266	89	216	-	150	-
	Ref Library	-	-	-	-	-	150	-
	Exhibition Hall	-	-	-	-	-	150	-
	Conference Hall	-	-	-	-	-	250	-
	2 Seminar Rooms	-	-	-	-	-	300	-
	Project Rooms	-	-	-	-	-	150	-
	Reserved Collections	-	-	-	-	-	150	-
	Reprographics	-	-	-	-	-	50	-
	Digital Photo	-	-	-	-	-	50	-
	Others	-	-	-	-	-	150	-
	E-LIBRARY (Computer Facilities)	417 E-Books	60	-	-	-	100	500
	LAW LIBRARY	1,355	71	273	990	175	-	-
	MEDICAL LIBRARY	5,306	4,334	810	918	210	-	-
	PHARMACY LIBRARY	487	216	77	132	70	-	-
	NURSING LIBRARY	264	1,012	60	144	50	-	-
	ALUMNI LIBRARY	-	-	-	-	160	-	-
	<b>GRAND TOTAL</b>	<b>15,481</b>	<b>7,486</b>	<b>2,271</b>	<b>3,048</b>	<b>665</b>	<b>2,000</b>	<b>500</b>

## SPORTS UNIT

### STAFF LIST

S/N	NAME	DESIGNATION
1.	Mr. Bernard Ekhaguere	Ag, Head Sports Unit
2.	Nkwuka Ekwemalor Theresa (Mrs)	Senior Typist

### AIMS AND OBJECTIVES

1. Organize sporting activities for staff and students of the University.
2. Prepare students and staff to participate in intra- and inter-University Sports competitions.
3. Maintain existing sports facilities in the University.
4. Advise the University on matters relating to sports and formulation of Sports policy.

In order to realize the above objectives, the sports Unit has planned to organize various Sporting activities in which all students can participate for recreation or use them to develop their talent to higher standard. Modern sports facilities and equipment are available for the use of students. These are:-

- i. 3 Football pitch – 2 in the Crown Estate and 1 in the New Sports complex under construction.
- ii. 1 table –Tennis Board, 2 Up- to date bats and 2 counters.
- iii. 3 Tennis courts (One indoor). Modern Tennis rackets are available.
- iv. 2 Volleyball courts with modern nets.
- v. 2 Basketball courts.
- vi. 2 Pairs of Badminton nets and stands. The Okada Town Hall serves as venue for Badminton Competition and training when the need arises.

### MISSION

The Mission Statement of the Sport Unit is:

To use sports to mould good character and faster self –discipline which are the attributes required for success in life and above all , to make Igbinedion University the envy of other private Universities in the field of sports.

Proposed Sports Championship/ Competition for the Year

These includes:-

#### **1. INTERCOLLEGIATE MALE FOOTBALL CHAMPIONSHIP FOR VICE CHANCELLOR'S CUP**

This competition which started in 2001 for the seven Colleges of the University hold in October- November every year. It is very popular among the University Community. The current championship is the College of Engineering.

**2. INTERCOLLEGIATE BASKETBALL COMPETITION FOR DEPUTY VICE CHANCELLOR'S CUP**

Unlike the intercollegiate football competition which is for male students only, this championship is to take care of the interest of the followers and players of basketball among the generality of the male and female students in the University.

**3. FIVE A SIDE INTERCOLLEGIATE FOOTBALL COMPETITION FOR DR. MRS. FLORENCE MASAJUWA'S CUP.**

This football competition is open to both male and female only the trophy was donated by Dr. Mrs Florence Masajuwa, a Lecture in the College of Arts and Social Sciences in 2007 to foster knee competition among the female student. The current champion is College of Engineering.

**4. CHESS CHAMPIONSHIP**

This competition is open to both female and students. During the competition, new talented players are discovered from whom the best are chosen to represent the University external competitions.

**5. IGBINEDION UNIVERSITY (DEPUTY VICE CHANCELLOR'S OPEN TENNIS (LAWN) CHAMPIONSHIP.**

As the name implies, this competition is open to both male and female member of the University Community and its environs.

**6. CROSS COUNTRY RACE**

It was first organized in 2004. It is open to male and female students as well as staff of the University and is meant to serve the interest of those who like long distance races.

**7. INTER-HALL SPORTS FESTIVAL**

Six residential halls (3 for female and 3 for male student) are expected to participate in the sport festival in which 8 sports will feature. This sports festival will be used in selecting the students who will represent the University at the NIGERIAN PRIVATE UNIVERSITY GAMES (NPUGA).

Igbinedion University is a strong and pioneer member of Nigeria Private University Games Association (NPUGA) which was set up in 2003 by the Committee of Vice Chancellor and Registrars of Private Universities in Nigeria (CVRPU). Its mandate is to develop sports in the private universities in Nigeria.

**8. SUMMER MAKE-UP FOOTBALL TOURNAMENT**

This tournament started since 2011 and is played among the club sides in the two Ovia Local Government Areas where the University is located, normally starts in Late July – August. Staff and students also participate in the tournament.

Since its inception Late Dr. J.B. Okoro former University Director of Sports has been its president. The maiden edition of NPUGA games was held at Okada in

December 2005, which the second edition was hosted by Lead City University, Ibadan in December 2007. American University of Nigeria, Yola organized the third edition in December 2009.

The fourth edition was hosted by Western Delta University, Oghara, and December 2011.

The fifth edition was hosted by Joseph Ayo Babalola University, Aro Keji 2013.

The sixth edition was hosted by Afe Babalola University, Ado Ekiti, in December 2015.

The sports that usually features in (NPUGA )Nigeria Private University Games are:-

Badminton, Basketball, Chess, Football, Tennis, Tennis, Swimming, Scrabbles and volleyball. Igbinedion University intends to participate in the next students biennial games.

## STUDENT AFFAIRS

### LIST OF STAFF

#### HOD's Office

S/N	NAME	POSITION
1.	Kennedy Igbinedion	Head, Student Affairs
2.	Kifordu Agiliga Joseph	Confidential Secretary I
3.	Miss Joan Omoregie Odion	Admin. Officer II
4.	Miss Helen Amarachi Ndigwe	Senior Porter

#### New Girls Hostel

S/N	NAME	POSITION
1.	Mrs. Olaseeni A. Modupe	Chief Porter
2.	Mrs. Imariagbe Ifeoma B.	Porter
3.	Miss Gladys Onyenashia Daniel	Senior Porter
4.	Adinya Gideon Okpamu	Porter/B. Operator
5.	Miss Okundi Monica	Porter
6.	Mrs. Osawaru Sarah	Porter
7.	Mr. Samson Ajibo	Porter/B. Operator

#### Old Girls Hostel

S/N	NAME	POSITION
1.	Mrs. Aikpitanyi Rosemary	Porter
2.	Mr. Ainya Paulinus	Senior Porter
3.	Richard Osawe	Chief Porter
4.	Mr. Ugo Alexander	Porter
5.	Mrs. Numbe Christiana	Porter
6.	Mr. Odiase Efosa	Porter

#### New Boys Hostel

S/N	NAME	POSITION
1.	Mr. David Igbinedion	Chief Porter
2.	Mr. Philip Ozor	Assistant Supervisor
3.	Mr. Omokhabi Sunday	Porter
4.	Mrs. Jioke Christiana N.	Porter
5.	Mr. Godwin Imudia	Porter
6.	Raymond Ebie	Porter

#### Old Boys Hostel

S/N	NAME	POSITION
1.	Mr. Sunday A. Odega	Senior Porter
2.	Mr. Collins Omoregie	Porter
3.	Mr. Ehis Osaze	Porter

4.	Mr. Stephen Ohagbon	Porter
5.	Mr. Udom Effiong	Porter
6.	Mr. David Abolarin	Senior Porter

**Medical Hostel**

S/N	NAME	POSITION
1.	Aghom O. Patrick	Chief Porter

**Alumna Centre, Crown Estate**

S/N	NAME	POSITION
1.	Nkwuka-Oketete Patricia	Chief Porter

## WORKS, TRANSPORT AND SERVICES DEPARTMENT

### LIST OF STAFF

S/N o	NAME	QUALIFICATION	POSITION
1	Usiohen Iziegbe	B.Eng (Mech), M.Sc (Eng Mgt)	Head of department
2	Osiboko William	ND (Civil Eng), HND (Structural Eng)	Principal Technical Officer
3	Owede Osagie Dandison	ND (Est. Mgt), HND (Est. Mgt)	Resident Maintenance officer
4	Ifada Maria Ekpen	ND (Est. Mgt), HND (Est. Mgt)	Estate Officer
5	Dovi Tomla Komlan	Adv. Dip in Mgt Enterprises	Higher Technical Officer (Carpentry)
6	Osarenkhoe Saturday	Govt. Class 4, Trade Test 3-1	Senior Foreman (Electrical)
7	Orogun Diamond	P.S.L.C	Senior Tractor Operator
8	Udusevbaye Kingsley	F.C.C.S, City and Guild, Trade Test 3,2 and 1	Senior Foreman (Masonry)
9	Izevbigie Ikponmwosa	S.S.C.E, Trade test	Mason
10	Andre Wilson	S.S.C.E, Trade Test	Bulldozer Supervisor
11	Okoduwa Iziegbe	J.S.C.E, Trade Test 3-1	Senior Driver
12	Ogunseye Odion	P.S.L.C, Driving License	Senior Driver
13	Adigbe Samson	GCE, Trade Test 3-1	Generator mechanic
14	Akintayo Nurudeen	W.A.S.C	Mechanic
15	Oloruntoyin Osiya	P.S.L.C	Borehole Operator
16	Macus Vincent	P.S.L.C	Tanker Assistant
17	Karimu Waidi	Driving License	Senior Driver
18	Ogbeide Micheal	P.S.L.C	Gardener
19	Aghayisi Wilfred	P.S.L.C	Farm Attendant
20	Ehisenmen Osaigbovo	P.S.L.C	Plumber
21	Ibie Sunday	P.S.L.C	Plumber
22	Dele Peter	P.S.L.C	Head Painter
23	Onahor Emmanuel	P.S.L.C	Gardener
24	Eromosele Lawrence	P.S.L.C	Gardener
25	Efosa Smart	S.S.C.E, Trade test 3-1	Electrician
26	Uwensaken Efosa C.	ND (Electrical Eng), Trade Test 3-1	Electrician
27	Oboh Keneth	P.S.L.C	Generator Operator
28	Augustine E. Iyangbe	Trade test 3-1	Electrician
29	Oghoayafedo Osagioduwa	P.S.L.C	Electrician
30	Augustine Joseph	Trade test 3-1	Electrician
31	Muritala Taiwo	P.S.L.C, Apprentiship certificate	Carpenter
32	Dayyabu Salisu	Trade test 3-1	Electrician/Generator Operator



33	Monday Ehizibue	S.S.C.E, Apprenticeship certificate	Carpenter
34	Abadji Dodji	S.S.C.E	Carpenter
35	Akpe Mathurin	S.S.C.E	Carpenter
36	Agbonghae Francis	S.S.C.E	Carpenter
37	Eboigbodin Joseph	P.S.L.C	Helper – Plumbing/Carpentry
38	Abegbe Florence	J.S.C.E	Alumni Building Attendant
39	Ibrahim I. Opeyemi	P.S.L.C	Alumni Building Attendant
40	Bayo Sanusi	P.S.L.C	Tractor Assistant
41	Ajibade Nathaniel	P.S.L.C	Welder
42	Messanvi Yawo Ague	S.S.C.E	Carpenter
43	Gbologan Apetogbo	P.S.L.C	Carpenter
44	Chaold Yawovi	Certificate in Marketing	Carpenter
45	Alhaji Maliki	P.S.L.C	Mosque Attendant
46	Grace Idada	P.S.L.C	House Keeper
47	Isiaka Adeyemo	S.S.C.E	Machine Operator
48	Emudiaverha Onoriode	S.S.C.E	Plumber
49	Odey Friday	S.S.C.E	Plumber
50	Asebodan Osaro	S.S.C.E	Clerk
51	Chibuzor Ike	P.S.L.C	Cleaner
52	Stanley Ogbesia	S.S.C.E	Block Moulder
53	Ogunsede Abel	S.S.C.E	Block Moulder
54	Kunle Ogunyemi	S.S.C.E	Block Moulder
55	Mr. Apav Micheal	S.S.C.E	Block Moulder
56	Sam Rita Okon	S.S.C.E	Cleaner
57	Isaiah Blessing E.	S.S.C.E	Cleaner
58	Jacob Apuu	S.S.C.E	Block Moulder
59	Igbinogun Paul	P.S.L.C	Senior Driver
60	Izibili Henry	P.S.L.C	Gardener
61	Samuel Omonua	P.S.L.C	Tipper Driver
62	Odili John		Pay Loader Operator
63	Emmanuel Akpata		Tipper Driver
64	Emmanuel Omoregbe		Lorry Driver
65	Johnson David	S.S.C.E	Electrician
66	Idugboe Edos	P.S.L.C	Tipper Assistant
67	Oyinbo Micheal	W.A.S.C	Tipper Driver
68	Phillip D. Sule	Certificate in Plumbing	Plumber
69	Amos Apav	S.S.C.E	Block Moulder
70	Monday Azenabor	S.S.C.E	Block Moulder
71	Tyolaha Desmond	S.S.C.E	Block Moulder
72	Agbonlahor Osas Friday	S.S.C.E	Block Moulder
73	Monday Amarime	W.A.S.C	Generator Operator

## **FUNCTIONS OF WORKS AND SERVICES DEPARTMENT**

1. Construction and maintenance of buildings infrastructure including carpentry repairs/maintenance.
2. Maintenance of roads and drains.
3. Provision of water, electricity and their maintenance/repair
4. Maintenance and repair of University plants and equipment.
5. Maintenance and repairs of University light and heavy duty vehicles.
6. Electrical appliances repairs/maintenance

## **IGBINEDION UNIVERSITY STAFF SCHOOL (IUSS) CROWN ESTATE, OKADA**

### **1.0 Introduction**

The Igbinedion University Staff School (IUSS) was founded in September, 2005 at the direction of the Vice Chancellor of the University, Professor (Rev.) Eghosa E. Osaghae. It is situated in the Crown Estate of the University. The school started with a population of six children housed in a single block of 3 classrooms. The pioneer staff were:

- (i) Mrs. Mercy Omofuegbe - Head Teacher
- (ii) Mr. Isaac Chafa - Class Teacher

### **2.0 Past and Present Board of Management of IUSS**

The following have been members of Board of Management in IUSS:

#### **October 2007 – August 2008:**

- 1. Professor M. K. O. Padonu - Chairman (Head, Department of Community Health)
- 2. Professor Anselm Uba - Member (Director, Human Help Services)
- 3. Mr. Nosa Edogiawerie - Member (Bursary)
- 4. Mrs. Vera Dawson - Member (Bursary)
- 5. Angela O. Idonije - Member (Registry)
- 6. Mrs. A. Okonkwo - Member/Secretary (Head Teacher)

#### **September 2008 till Date**

- 1. Professor (Mrs.) Tonye G. Okorie - Chairman/DVC
- 2. Professor Anselm Uba - Member (Director, Human Help Services)
- 3. Dr. R. E. Nwokedi - Member, Head, Department of Physics
- 4. Mrs. C. Nweke - Member (Deputy Director (Nursing), IUTH)
- 5. Mrs. I. Igbinosa - Member (Registry)
- 6. Mr. Taiwo Fadejin - Member (Bursary)
- 7. \*Mrs. Amaka Okonkwo } - Member (Head Teacher) – 2008-2009
- 8. \*Mr. Isaac Chafa } - Member (Ag. Head Teacher) – 2009 – Sept. 2012
- 9. Mr. Oguntimoju Samuel } - Member (Head Teacher) - Oct. 2012-date
- 10. Mrs. Monishola Oyerinde - Member/Secretary (Assistant Head Teacher) Oct. 2012 – date

### **3.0 Past and Present Head Teachers/Acting Head Teacher in IUSS**

The following have been Head Teachers/Acting Head Teacher in IUSS:

- 1) Mrs. Mercy Omonfuegbe - September 2005 – October 2006
- 2) Mrs. Amaka Okonkwo - October 2006 – April 2009

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\* Acted as Secretary to the Board during their tenure.

- 3) Mr. Isaac Chafa (Acting Head) - May 2009 – September 2012
- 4) Mr. Samuel Oguntimoju - October 2012 – date

#### **4.0 Status of IUSS**

The IUSS is approved by Edo State Ministry of Education to operate Creche, KG, Basic (Primary); and Secondary School (Junior Secondary School (JSS) and Senior Secondary School (SSS). The school has a committee Parents/Teachers Association (PTA).

#### **5.0 Edo State Certificate of Approval of IUSS**

IUSS has Certificates of Approval from Edo State Ministry of Education in the following:

- (1) Approval to run a Private Education Institution issued on the 3<sup>rd</sup> of May 2012 with Registration No. 014/012/193.
- (2) Approval to run a Private Nursery School issued on the 1<sup>6th</sup> of December 2008.
- (3) Approval to run a Private Primary School issued on the 16<sup>th</sup> of December 2008.
- (4) Approval to Operate Igbinedion University Secondary School issued on the 3<sup>rd</sup> May 2012.
- (5) Approval of Recognition to Write Primary School Certificate Examination issued on the 16<sup>th</sup> April 2012.
- (6) Approval to Write the Basic Education Certificate Examination issued on the 19<sup>th</sup> April 2012.
- (7) Letter of Tax Clearance from tax indebtedness from 2008 – 2011 issued in June 2012.

#### **6.0 Population**

The population of pupils/students in IUSS increased from 6 at its inception to 305 in 2012.

#### **7.0 Facilities**

Facilities in IUSS include four (4) blocks of building consisting of:

- An Administrative block
- 15 Classrooms
- 5 Laboratories , made up of :
  - (i) Integrated Science Laboratory
  - (ii) Home Economics Laboratory
  - (iii) Library
  - (iv) Computer Laboratory
  - (v) Arts room

## 8.0 Staff List of IUSS

Staff as at 2012, is as follows:

S/N	NAMES	QUALIFICATION	DESIGNATION
1.	Mr. Oguntimoju Samuel Segun	B.Sc. Ed./English	Head Teacher
2.	Mrs. Oyerinde Martha Monishola	B.Sc. Ed./Social Science (Civic Education/Government)	Assistant Head Teacher
3.	Mr. Osarenren O. Precious	B.Sc./Biochemistry	Teacher
4.	Mr. Ogunbile Akeem	B.Sc. Ed. /French	Teacher
5.	Mr. Chafa Isaac	HND/Agric	Teacher
6.	Mrs. Amasowomwan Perpetual	HND/Computer Science	Teacher
7.	Mr. Aghimien Felix	NCE/Mathematics	Teacher
8.	Mrs. Akpojaro Onome	NCE/English/Social Studies	Teacher
9.	Miss Blessing Abel	NCE/Integrated Science	Teacher
10.	Mr. Wonah Godwin	NCE/Biology/Geography	Teacher
11.	Miss Aisida Yinka Helen	NCE/Home Economics	Teacher
12.	Mrs. Ugochukwu Faith	NCE/Social Studies	Teacher
13.	Mr. Aerem Peter	NCE/Economics/Mathematics	Teacher
14.	Mr. Enadeghe Aimuamwonsa	NCE/Economics	Teacher
15.	Mr. Adeniyi Emmanuel	NCE/Physical Health Education	Teacher
16.	Mrs. Orisajuwa Olayinka	School Certificate	Class Attendant
17.	Mrs. Imariagbe Ifeoma	School Certificate	Class Attendant
18.	Mrs. Osamudiamen Sandra	School Certificate	Class Attendant
19.	Miss Onuh Blessing	School Certificate	Class Attendant
20.	Mrs. Isibor Violet	School Certificate	Creche Attendant
21.	Mrs. Ovioma Roseline	School Certificate	Class Attendant
22.	Miss Juba Adeyinka	School Certificate	Class Attendant
23.	Miss Umukoro Patner	School Certificate	Class Attendant
24.	Mr. Tersoo Iortim	School Certificate	Gardener
25.	Mr. Nwakupka Ernest	School Certificate	Night Guard
26.	Mrs. Iangi Ikyo	Primary School Leaving Certificate	Class Attendant

Youth Corpers		
S/N	NAMES	QUALIFICATION
2011/2012		
1.	Mr. Umeyiliora Charles	B.Sc./Mathematics
2012/2013		
2.	Mr. Abiona Emmanuel M.	B.Sc. Ed./English – 2012/2013
3.	Mr. Folahan Femi	B.Sc./Accounts – 2012/2013
4.	Mr. Ajugu Kehinde	B.Sc./Economics – 2012/2013

## 9.0 June 2012 Primary School Leaving Examination Result – 100% Success

There was 100% success. The details and analysis of the result are as listed below:

Exam No.	Pupil's Name	Sex	Final Grade
0001	Abudu Elizabeth	F	Merit
0002	Adebayo Toyin	F	Merit
0003	Adeniyi Bright	M	Merit
0004	Adugbeji Charity	F	Merit
0005	Alabi Atinuke	F	Distinction
0006	Anthony F. Peggy	F	Distinction
0007	Chafa Success	F	Merit
0008	Chidi Wendy	F	Merit
0009	Ikhidero I. Daniella	F	Merit
0010	Eguagie Osaro Joel	M	Merit
0011	Ekhator Osarugue	F	Merit
0012	Enabulele Trancy	F	Merit
0013	Igbinobaro Betty	F	Merit
0014	Jagbedia J. Annabel	F	Merit
0015	Jagbedia N. Stephen	M	Merit
0016	Melariri Godpower	M	Merit
0017	Okwuonu I. Precious	M	Distinction
0018	Omotoso A. Treasure	F	Merit
0019	Onogholo E. Temi	F	Merit
0020	Orjiokwe Uchenna	M	Merit
0021	Ozele-Unnah Ojonilemi	F	Merit
0022	Ozor Peace	F	Merit
0023	Ozor Praise	F	Merit
0024	Paul Juliet	F	Merit
0025	Samuel Sarah	F	Merit
0026	Segun Imoleayo	F	Merit
0027	Shaka Gift	F	Merit
0028	Tijani Galibath	F	Merit
0029	Yusuf Favour	F	Merit
0030	Aikpitanyi Enibokun	F	Merit

In June 2012, 30 (thirty) candidates from IUSS sat for the Primary School Leaving examination at IUSS examination centre (Code 14055). This was the first time IUSS pupils were sitting for this examination in their own school!

### **Analysis of Result**

Number of Candidates	-	30
Number of Distinction	-	3
Number of Merit	-	27
% of Pass	-	100%
% of Pass in English	-	100%

% of Pass in Mathematics - 100%

## LIST OF HONORARY GRADUATES

### November 2003

Atiku Abubakar  
*Doctor of Letters (D. Litt.)*

Chief Tony Anenih  
*Doctors of Laws (LLD)*

Hon. Justice S.M.A. Belgore  
*Doctor of Laws (LLD)*

Dr. Jackson E. Gaius-Obaseki  
*Doctor of Science (D.Sc.)*

Dr. G.A. T. Oboh  
*Doctor of Science (D.Sc)*

### November 2004

Dr. (Mrs.) Maryam I. Babangida  
*Doctor of Letters (D.Litt.)*

Nelson Mandela  
*Doctor of Laws (LLD)*

Chief (Dr.) Hope Harriman  
*Doctor of Business Administration  
(DBA)*

Dr. (Mrs.) Winnie Madikizela Mandela  
*Doctor of Laws (LLD)*

HRM Igwe Alex Ezeoba Nwokedi  
*Doctor of Letters (D.Litt.)*

Dr. Mike Adenuga Jr.  
*Doctor of Business Administration  
(DBA)*

Hon. (Dr.) Fholisani Sydney Mufamadi  
*Doctor of Science (D.Sc.)*

Mr. John Kennedy  
*Doctor of Science (D.Sc.)*

Alhaji Shehu Usman Aliyu Shagari  
*Doctor of Political Science (D.Sc.)*

### November 2005

Admiral (Dr.) Augustus Akhabue  
Aikhomu (Rtd)  
*Doctor of Laws (LLD)*

Dr. Ahmadu Adamu Mu'Azu  
*Doctor of Governance (D.Gov.)*

Otunba Adekunle Ojora  
*Doctor of Business (D. Bus.)*

### November 2006

Asiwaju BolaAhmed Tinubu  
*Doctor of Humanities (D. Hum.)*

His Royal Highness, Alh. (Sen.) Haliru  
Dantoro Kitori III  
*Doctor of Public Administration (DPA)*

His Royal Majesty, Zwelithini Goodwill  
KaBhekuzulu  
*Doctor of Letters (D.Litt.)*

Princess Erelu Abiola Dosumu  
*Doctor of Culture (D. Cul.)*

Gen. Abdusalami A. Abubakar  
*Doctor of Laws (LLD)*

### November 2007

Alayeluwa Oba Okunade Sijuade  
Olubuse II,  
*Ooni of Ife*  
*Doctor of Laws (LL.D.)*

His Royal Majesty, Otumfou Osei Tutu  
II  
*Asantehene of Kumasi]*

*Doctor of Science (D.Sc)*

The Most Hon. P.J. Patterson ON, PC,  
QC

*Doctor of Letters (D. Litt.)*

Engr. Chris Osa Ogiemwonyi

*Doctor of Engineering*

**November 2008**

Hajiya Turai Umar Yar'adua

*Doctor of Humanities (D. Hum.)*

Dr. Fidelis Ayebae

*Doctor of Science (D. Sc.)*

Mallam Dr. Isa Yuguda

*Doctor of Administration (D. Admin)*

**November 2009**

Alhaji Mohammed Danjuma Goje

*Doctor of Administration (D. Admin)*

Alhaji Yayale Ahmed

*Doctor of Administration (D. Admin)*

Sir David Osunde JP

*Doctor of Humanities (D. Hum.)*

**November 2010**

Mrs. Victoria Hansatu Gowon

*Doctor of Humanities (D. Hum.)*

Air Chief Marshal Paul Dike

*Doctor of Science (D. Sc.)*

Mrs. Evelyn Oputu

*Doctor of Business Administration  
(DBA)*

**November 2011**

Her Excellency Dr. Ida Betty Odinga

*Doctor of Humanities (D. Hum.)*

Dr. Oluwole Bankole Oshin

*Doctor of Finance (D. Admin.)*

**November 2012**

His Excellency Mr. John Agyekun  
Kufuor.

*Doctor of Letters (D. LITT)*

His Eminence, Alhaji Muhammad Sa'ad  
Abubakar, The Sultan of Sokoto

*Degree of Doctor of Law (LL.D)*

Mr. Dikko Inde Abdullahi

*Doctor of Administration (D. Admin.)*

Prince Abubakar Audu

*Doctor of Administration (D. Admin)*

Chief Alfred Eghobamien SAN

*Doctor of Laws (LL. D)*

Mr. Anthony Edoghogho Ogunbor

*Doctor of Business Administration  
(DBA)*



**Department of Political Science and  
Public Administration**  
*First Class (Hons.) Nil*

*Second Class (Hons.) Upper Division*  
ALIMI, Abosedo

*Second Class (Hons.) Lower Division*  
AKAROLO, Charles Akaome

**COLLEGE OF BUSINESS AND  
MANAGEMENT STUDIES**  
**Department of Accounting**  
*First Class (Hons.) Nil*

*Second Class (Hons.) Upper Division*  
AKATA, Oghenekome Barbara  
UMASOR, Gloria  
UWECHE, Berticie

*Second Class (Hons.) Lower Division*  
EYAMBA-IDEM, Ihelme Asari  
OMONZEJELE, Ighalo  
UZOCHUKWU, Adamma Ijeoma

**LIST OF GRADUATING STUDENTS  
2002/2003**

**COLLEGE OF ARTS AND SOCIAL  
SCIENCES**

**Department of Economics and  
Development Studies**

*First Class (Hons.)*

KACHIKWU, Amalaonye Josephine

*Second Class (Hons.) Upper Division*  
OLOPADE, Bosede Comfort

*Second Class (Hons.) Lower Division*  
KITCHENER, Yakubu Carba

*Third Class (Hons.)*

OKWUOSA, Ifeanyi Samuel  
OMATSEYE, Omaghommi Reagan

*Third Class (Hons.)*

ADEWAKUN, Ayokunle O.  
EHIZOKHALE, Ehikoya Michael

**Department of Business Administration**

*First Class (Hons.) Nil*

*Second Class (Hons.) Upper Division*  
ANICHEBE, John Paul Chukwuebuka  
ODARO, Aizeyosabo Ekhoriyayi  
OWUNNA, Nwakaego Cassandra  
UKAH, Mercy Ugochi

*Second Class (Hons.) Lower Division*  
ASHINZE, Rosemary Chukwudumebi  
EGUAVOEN, Osagie Abdul

*Third Class (Hons.)*

UZOCHUKWU, Kelvin Ifeanyi

**Pass**

URED, Cyril

**COLLEGE OF NATURAL AND  
APPLIED SCIENCES**

**Department of Computer Science and  
Information Technology**

**First Class (Hons.) Nil**

**Second Class (Hons.) Upper Division**

OKOEGUALE, Joyce A.

UWECHIE, Onyinyechukwu Alberta

**Third Class (Hons.)**

GRAHAM, Douglas Creemben

OBEHI, Omonzeyele

**Department of International Relations**

**First Class (Hons.)**

ASHAMU, O. Adeoti

**Second Class (Hons.) Lower Division**

FRANK-ENE, Faith Odiri (Nee Enemudo)

**Department of Political Science/Public  
Administration**

**First Class (Hons.) Nil**

**Second Class (Hons.) Upper Division Nil**

**Second Class (Hons.) Lower Division**

AGHEDO, Nunu

EFETURU, Oghenerobo

**Third Class (Hons.)**

KEHINDE, Frank Oluwole

LAWAL, Gafar Adekunle

**LIST OF GRADUATING STUDENTS**

**2003/2004**

**COLLEGE OF ARTS AND SOCIAL  
SCIENCES**

**Department of Economics and  
Development Studies**

**First Class (Hons.) Nil**

**Second Class (Hons.) Upper Division**

AKELE, Iyore Joy

YESUFU, A. Sufyan

**Second Class (Hons.) Lower Division**

ABBE, Osaruese

FUFEYIN, Omawomi

JIMOH, Kolawole Abdulakeem

MBUKPA, Asher

**Third Class (Hons.)**

MERO-ASAGBA, Aye

**COLLEGE OF BUSINESS AND  
MANAGEMENT STUDIES**

**Department of Accounting**

**First Class (Hons.)**

ELAHO, Isoken Theodora

**Second Class (Hons.) Upper Division**

ADEBIYI, Adeyinka Olarenwaju

AGADAGBA, Eloho Sandra

EDAFIOGHO, Kesiena Linda

EGONU, Adeze Chomma

IGHODARO, Osahenrumwen Blessing

MOMODU, Rashidat

OKHIKU, Joan Ebahi

UYANNEH, Juliet Anwulika

**Second Class (Hons.) Lower Division**

AKPOSHORO, Helen E.

EDEH, Mark Bekweri  
EFETURI, Ofoghale Oghenekaro  
EZENDUKA, Nneka Winifred  
IDEHENRE, Florence Oseh  
IGUMA, Ehis Elvis  
IHEJIETO, Iheanyi Victor  
INYANG, Patrick Bassey  
NANNA, Orode Jennifer  
OJEI, Olukemi Etuonawa  
OMEATE, Obiora Chijioke  
OMONEDO, Kathryn  
OMORUYI, Erhunmwunse Robert  
OPONE, Aiogbe Jennifer  
OSEMWEGIE, Osatohamwen E.  
OYEWO, Yetunde Mosunmola

***Third Class (Hons.)***

BALOGUN, Olojimi Shafi  
IGBINEDION, Daniel Omoregie  
ODARO, Esenosaru Oghoere  
OKOYO, Odion Henry  
SANUSI, Idris Tola

**Department of Banking and Finance**

***First Class (Hons.) Nil***

***Second Class (Hons.) Upper Division***

EMOKPAE, O. David

***Second Class (Hons.) Lower Division***

OSUALA, Chiedozie Tobenna Dickson

***Third Class (Hons.)***

IGUODALA, Edoma Bruce  
ISIJOLA, Abimbola Ola

**Department of Business Administration**

***First Class (Hons.) Nil***

***Second Class (Hons.) Upper Division Nil***

***Second Class (Hons.) Lower Division***

ALADEJEBI, Kemisola Olasimbo  
ORIAKHI, Uyi Oghosa

***Third Class (Hons.)***

ODIA, Osadebamwen Megan  
USIADE, Gloria Onyere

***Pass***

ODIA, Osasumwen Sandra

**COLLEGE OF LAW**

***First Class (Hons.) Nil***

***Second Class (Hons.) Upper Division***

AJGBUNMO, Catherine Kofowora  
ARIWERIOKUMA, Bennet Tamunotari  
JAIYESIMI-OLOKUN, Abimbola  
OGAGA, Atase  
WABALI, Aleruchi Chizor

***Second Class (Hons.) Lower Division***

ADENIYI, Adewale Adeboye  
AIMIUWU, Osahon  
AYOMO, Pamela Adeboye  
DAFILUELO, Louise Egono  
ETTANG, Idongesit Imeh  
GRAHAM-DOUGLAS, Awongo  
IGWEBUIKE, Ifeoma Cynthia  
MADUEMEZIA, Uzoma  
NJOKU, Stephen Emeka  
NWOGBO, Chinenye  
ODIGIE, Lydia Osarenkhoe  
OSHOGWEMOH, Zainab  
OTUKA, John Iheanyi James  
UKAIGWE, Petra Ebere  
UMEUKEJE, Franklyn

***Third Class (Hons.)***

CHIGBUE, Asset  
EBHALEME, Oseghale Anthony  
MBAMAH, Emeka

**COLLEGE OF NATURAL AND  
APPLIED SCIENCES**

**Department of Computer Science and  
Information Technology**

***First Class (Hons.)***

OSAGIE, Eseosa Stephanie

***Second Class (Hons.) Upper Division***

ADENUGA, Yewande Esther  
 AKINLEYE, Oyeronke  
 EGONU, Obinna Jude  
 IBHAWOH, Azilomen  
 ISAH, Lilian Nana-Aisha  
 ODION-UGBESIA, Edowaye

***Second Class (Hons.) Lower Division***

EJIOGU, Emeka Benjamin  
 FAYOKUN, Oluwaseun Johnson  
 IYAMU, Nosayaba Tyrone  
 OBOITE, Jonathan Alele Jr.  
 OWUNNA, Onyekachi Valerie  
 YAHAYA-ZEKERI, Sherifat

***Third Class (Hons.)***

AKINBAMI, Abayomi Adeola  
 BIDDIE-MEMBER, Otonye Ibileye  
 HART, Rejoy Tamuno  
 INYANG, Ted Afu  
 MUGBEH, Jonathan Oghenekome  
 ORJI, Doris Ada

**Department of Microbiology**

***First Class (Hons.) Nil***

***Second Class (Hons.) Upper Division***

NUHU, Lawal Wyom

***Second Class (Hons.) Lower Division***

ASHIOFU, Andrew I.  
 MONYEH, Victoria Ndidi

***Third Class (Hons.)***

IDEHEN, O. Benson

**COLLEGE OF HEALTH SCIENCES**

**Department of Biochemistry**

***First Class (Hons.) Nil***

***Second Class (Hons.) Upper Division***

OJO, Yewande T.

**DEGREE ANALYSIS**

First Class (Hons.)	3
Second Class (Hons.) Upper Division	24
Second Class (Hons.) Lower Division	49
Third Class (Hons.)	22
Pass	1
<b>Total</b>	<b>99</b>

**LIST OF GRADUATING STUDENTS  
 2004/2005**

**COLLEGE OF ARTS AND SOCIAL  
 SCIENCES**

**Department of Economics and  
 Development Studies**

***First Class (Hons.)***

ORIMOLADE, Ibironke Funmi

***Second Class (Hons.) Upper Division***

AINA, Ademola Akinola  
 EJIDIKE, Oluchi Augusta

ETIEBET, Mona Enobong  
 NWEKE, Marylinda Nwakaego  
 OLATEJU, Olajumoke  
 OYEWO, Oluwatosin Jumoke  
 OZUBELE, Nneoma Omo  
 SOARES, Abolanle Deborah

***Second Class (Hons.) Lower Division***

ADEPOJU, Zaynab Temitope

AKANDE, Oluwatosin Adenike  
AKPUNONU, Egonekwu Amina  
ANUMUDU, Akunna Sylvia  
ATSIYA, Freedom Monday  
OFOEGBU, Chiedu Roland  
OKONJI, Kobindi Evelyn  
OMEILI, Obiezue Nnaedoziem  
WABALI, Chinagorom Chisor

***Third Class (Hons.)***

AREMU, Bose Oluwakemi  
ASEMOTA, Aideyan Emmanuel  
BRAIMOH, Ezekiel Omuya  
EKHATOR, Isoken  
FAKOYA, Oluwasesan Kelechi  
MENE-AFEJUKU, Amy  
MOMODU, Suleiman  
OBI, Nnaemeka Ifesinachi  
OJENGBEDE, Adewale O.  
TEJUOSO, Aderoyero Rotimi

**Department of International Relations**

***First Class (Hons.) Nil***

***Second Class (Hons.) Upper Division Nil***

***Second Class (Hons.) Lower Division***

ADAMSON, Ololade Oluwakemi Lainab  
AKANEGBU, Chiazor  
AMODU, Lateefat Adenike  
AWODI, Grace Eikojonwa  
IGHODARO, Silvia Ikponmwosa  
IKEMEFUNA, Hector Nnamdi  
OMARUAYE, Emuejevoke  
OMORDIA, Ify Mariam

***Third Class (Hons.)***

AROMANA, Princess Ese  
EYAMBA-IDEM, Eyamba Frances  
OBOTUARE, Silvia Ufuoma

**Department of Political Science and  
Public Administration**

***First Class (Hons.) Nil***

***Second Class (Hons.) Upper Division***

AKPOGUMA, Alice Adetutu  
OKAFOR, Chinenye Beryl  
ONYA, Reason Rewo McWilliams

***Second Class (Hons.) Lower Division***

AKOSA, Chinenye Miriam  
IZIDOR, Nnadozie Blessing  
OMENE, Emmanuella Dumebi

***Third Class (Hons.)***

AJAKAIYE, Kayode Imoleolu  
IDEM, Mandu Ephraim  
IIORE, Osarugue  
ODEH, Solomon

***Pass***

CHUKWUMA, Chukwunonso Ebuka  
**COLELGE OF BUSINESS AND  
MANAGEMENT STUDIES**

**Department of Accounting**

***First Class (Hons.) Nil***

***Second Class (Hons.) Upper Division***

AJAYI, Yetunde Mary  
AKPETI, Tarere Omoakhaya  
EGHAREVBA, Efomo Aiyanbueze  
EKPO, Pauline  
FAYOYIN, Oyekunle Olamide  
HUTHMAN, Monsuru Abiola  
INYANG, Emem Aniekan  
OBADIE, Emmanuel Kesiena  
OMAGE, Blessing Ruth  
OTEGBEYE, Abimbola Oluwatoyin  
UBOGU, Ifeoma Jennifer

***Second Class (Hons.) Lower Division***

ABULIMEN, Akhere Vivian  
ADEUJA, Adedamola Oluwaseun  
ADEYEMO, Olushola Adewole  
AKINYEDE, Adeyinka Ronke  
ALAWODE, Oluwaseun Modupe  
ALEGBE, Oluwaseun Deborah  
AMBROSE-HART, Datari Elizabeth  
BABADE, Adegbola Adetokunbo

BON-NWAKANMA, Kelechi  
DOKPESI, Homto Vivian  
EGBEWUNMI, Ohunayo Elizabeth  
EJOVI, Erhuwu  
EJOVI, Oghenegaren  
EZOMO, Rume  
IGBRUDE, Eloho Sybil  
LAWSON-JACK, Soibi Ann  
NWOSU, Chikodi Johnson  
OGBEIDE, Osamudiamen Bruce Lee  
OKENMUO, Cynthia Chinenye  
OKOUGHA, Adelene Obehioye  
OKOYE, Chiazoka Chidinma  
OKOYE, Nkeiruka Ifeatu  
OMORUYI, Lilian  
ONUOKA, Chioma Vivian  
OSSAI, Chukwuemeka Adesina  
OYEKAN, Adewale Akinola  
TALABI, Oluseyi Oludare  
UDOFOT, Nse-Abasi Cosmas  
UMEJEI, Esther Ngozi

***Third Class (Hons.)***

AKINSUNMI, Olurotimi Adedoyin  
BIELONWU, Augustine Obayanin Jnr  
ESSIEN, Edidiong Paulinus  
NMOYE, Anwuli Gladys  
NNAMANI, Ndubuisi Collins  
OGEGEBE, Belinda Ewaen  
OKOYO, Jocelyn  
OLOTU, Motunrayo Janet  
TONY-CHETA, Uzoma Joseph

***Pass***

WYSE, Alero Esther

**Department of Banking and Finance**

***First Class (Hons.)***

OLATUNJI, Sherifat Adeola

***Second Class (Hons.) Upper Division***

AREMU, Atinuke  
EKONG, Anthony Ifiok  
IGUODALA, Utomwen Success

***Second Class (Hons.) Lower Division***

AKOSA, Obianuju Ngozi  
AWUNOR, Ogechi  
EGHAREVBA, Abieyuwa Abigail  
ISAH, Joanne Sefia  
UMEOHIA, Nkiruka Peace

***Third Class (Hons.)***

EKUAZE, Vincent Jnr.

**Department of Business Administration**

***First Class (Hons.) Nil***

***Second Class (Hons.) Upper Division***

OLOTU, Olwaseyi Samuel  
SANUSI, Hassanat Bukola  
SANUSI, Hossanat Dunmola

***Second Class (Hons.) Lower Division***

AIGHOBAHI, Itohan Augusta  
AJABOR, Louis Nwachukwu  
EDO-OSAGIE, Ifueko  
EWEKA, Ifueko Yvonne  
IBE, Chimezie David  
LAWAL, Nafisat Adekemi  
MBAEGBU, Jennifer Chinedu  
OJOMO, Emmanuella Osayi  
OLOFIN, Oluseyi Abiodun  
OLUBUKOLA, Temidayo Emmanuel  
ONI, Oluwatoyin Taiwo Paul  
OSULA, Omoruyi Osayamen  
SORAE, Aize  
UMEOHIA, George O.  
UWAIFO, Ehizogie Stella

***Third Class (Hons.)***

AMADI, Queen Nnena  
AMAKOMOWO, Ademilola Olayinka  
GARUBA, Onose  
ONI, Oluwatosin Kehinde Peter  
OSAZE, Aifuwa  
SULAIMAN, Nafisah Bashir  
SULAIMAN, Nura Bashir

***Pass***

EBALUNODE, Queenel Ivie

**COLLEGE OF HEALTH SCIENCES**

**Department of Biochemistry**

***First Class (Hons.) Nil***

***Second Class (Hons.) Nil***

***Second Class (Hons.) Lower Division***

AJAYI, Atinuke Morenike  
BON-NWAKANMA, Uchenna Chibunna  
NAPPIER, Osayamen Godswill  
OGUNDARE, Olajumoke Emmanuella

***Third Class (Hons.)***

AJAKAIYE, Ibukun Olusola  
AJIBOLA, Ayotunde Adedeji  
GBADEYAN, Ademola Ayobami  
IMASUEN, Osayanmon Lisa  
MOHAMMED, Olufunmilayo Ayus  
OZOYA, Modupe Olohirere

**COLLEGE OF LAW**

***First Class (Hons.)***

OLAWUYI, Damilola Sunday

***Second Class (Hons.) Upper Division***

ADARAMEWA, Olutade Yetunde Regina  
ADAREMEWA, Oluwatosin Omobolanle  
AFOLABI, Kassim Ishola  
AKINWANDE, Oluwagbenga Kayode  
FADAIRO, Rukayat Olayinka  
FASANYA, Folake Titilope  
ITIMI, Efemena Allison  
OZOBIALU, Vivienne Oby  
SHONIBARE, Oluwaseyi

***Second Class (Hons.) Lower Division***

ADEUJA, Oluwasogo Adebambo  
ADEWUNMI, Folake Oduntan  
ADEYEMI, Funmilade Adekola  
AKHIGBE, Annette  
AKINGBELU, Olubunmi Funmilola Busayo  
AMOBI, Uchenna Nnenna  
ATAKULU, Vivien Chika  
EIGBIRE-MOLEM, Freda Eghoghon  
ILODIBE, Ebele Alexandra

ODITA, Roselynda Isioma

OKON, Imaobong Esther

OPONE, Benita Esuma

***Third Class (Hons.)***

AKPABOR, Ogochukwu Sheila  
IDAHOSA, Ihiese  
OSAH, Ovie-Oniso  
OSAZUWA, Nneka Victory

***Pass***

ANUMUDU, Herbert Nnanyereugo

**COLLEGE OF NATURAL AND**

**APPLIED SCIENCES**

**Department of Biological Sciences**

***First Class (Hons.) Nil***

***Second Class (Hons.) Upper Division***

ARODIOGBU, Christine Obioma

***Second Class (Hons.) Lower Division Nil***

***Third Class (Hons.)***

SULAIMAN, Maryam Bashir

**Department of Chemical Science**

***First Class (Hons.) Nil***

***Second Class (Hons.) Upper Division Nil***

***Second Class (Hons.) Lower Division***

CHIMA, Ginika Donald  
OSHIN, Oluwadamilola Kolade

**Department of Computer Science and**

**Information Technology**

***First Class (Hons.)***

OLATEJU, Ifedayo

***Second Class (Hons.) Upper Division***

AGAMA, Imomotimi Kareem  
AJAGBE, Jelili Abisola  
EDO-OSAGIE, Precress Boye  
EGONU, Chinedu  
FAJULUGBE, Oluwatomi

IKEOLUMBA, Obinna Jonathan  
 JOHN, Ellis Ekpe  
 OJOBBO, Aghogho Oghenerukvw  
 OMEATA, Ebele Nwanneka  
 ORIMOLOYE, Oladapo

**Second Class (Hons.) Lower Division**

ADENIYI, Abimbola Obi  
 AGULONU, Afam Obiora  
 AKPAN, Ita Sunday  
 AKPORUNO, Uzezi  
 ALALE, Yetunde Motunrayo  
 ALEGBE, Olwasegu Babatunde  
 AMANGBO, Onyebuchi Winifred  
 ARINZE, Chuka Anthony  
 ASHINZE, Michael Nnamdi  
 AWO-JEGBEFUME, Omosefe  
 BUSARI, Oladapo David  
 DIENYE, John Owajiony  
 EBHOMENYE, Josiah Omon Jnr  
 EBOREIME, Omua Joy  
 ERONINI, Ihuoma Onyinye  
 ETAREH, Otega Joel  
 GARBA, Saidu Mohammed  
 IGIE, Ekinadoese Claudia  
 ISIBOR, Osemeke Theodore  
 MBATU, Daniel Ifeanchukwu  
 NNOLIM, Huldah Chioma  
 OBIAYA, Scott Emmanuel  
 OGIAMEN, Ibiba Juliet  
 OJO, Adewale  
 OLOKUN-OLA, Yomi  
 OMARUAYE, Oghenemarho  
 OMOKARO, Nosa Osarieme  
 ONIYAMA, Oghenemarho  
 OLUWADARE, Opeyemi  
 OSUALA, Nelson Ifeanyi  
 OWOLABI, Eyitope Olutimehin  
 OZOMARO, A. Majiro  
 SANNNI, Abiola Olajumoke

TEJUOSO, Adedayo Oyebola  
 TEJUOSO, Mobalaji Adewunmi  
 TEJUOSO, Adetunji Aderibigbe  
 UJOMU, Sylvester Azu  
 UMEJEI, Janet Isioma

**Third Class (Hons.)**

AKENZUA, Aiguobasimwin Ogie  
 OLOTU, Jeremiah  
 ONIYAMA, Oghenetega  
 OSAYI, Emiede Linda  
 SORAE, Osamede

**SCHOOL OF POSTGRADUATE STUDIES**

**MASTERS DEGREES**

**Master of Science – Management**

AKPETI, Elizabeth  
 ERAHON, Samson Owerale (Deceased)  
 IGBINOSA, Sunday Osaretin  
 OSUNBOR, Osere Cassius  
 WOGHIREN, Morgan Efosa Osamede (Deceased)

**Master of Science – Accounting**

ADEDIRAN, Samson Adewale  
 BAMGBOYE, John  
 ADEKUNLE, Iroha  
 Francis Odianosa  
 Dr. Olopade  
 DAVID Oyeyemi Onah,  
 SAMUEL, Ebinum  
 JAFARU, Jimoh

**Master of Science – Economics**

OGBEIFUN, Monday Ikponmwosa

**DEGREE ANALYSIS: UNGERGRADUATE**

College/Department	1 <sup>st</sup> Class	2 <sup>nd</sup> Class Upper	2 <sup>nd</sup> Class Lower	3 <sup>rd</sup> Class	Pass	Total
<b>ARTS &amp; SOC. SC.</b>						
Economics	1	8	9	10	-	28
International Relations	-	-	8	3	-	11



Political Science	-	3	3	5	1	11
<b>BUSINESS &amp; MGT STUDIES</b>						
Accounting	-	11	29	9	1	50
Banking & Finance	1	3	5	2	1	12
Business Admin.	-	3	15	7	1	26
<b>HEALTH SC.</b>						
Biochemistry	-	-	4	6	-	10
<b>LAW</b>	1	9	12	4	1	27
<b>NATURAL &amp; APPLIED SC.</b>						
Biological Sc.	-	1	-	1	-	2
Chemical Sc.	-	-	2	-	-	2
Computer Sc. & Info. Tech.	1	10	38	5	-	54
<b>Total</b>	<b>4</b>	<b>48</b>	<b>125</b>	<b>51</b>	<b>5</b>	<b>233</b>

**DEGREE ANALYSIS: POSTGRADUATE**

College/Department	Number
<b>Business &amp; Management Studies:</b>	
Accounting	6
Management	4 (2 deceased)
<b>Arts &amp; Social Sciences:</b>	
Economics	1
<b>Total</b>	<b>12</b>

**LIST OF GRADUATING STUDENTS  
2005/2006**

***Second Class (Hons.) Lower Division***  
AHUMABE, Uzoma George

**COLLEGE OF ARTS AND SOCIAL SCIENCES**

**Department of Economics and Development Studies**

***Second Class (Hons.) Upper Division***

AJAYI, Foluso Bayo  
ANENE, Ikechukwu Denis  
EBHI, Michael Uche  
ETSEMTAN, Gloria  
EZE, Anthony Chibuike  
NWANZE, Uchenna Chukwudi  
ODUCHE, Izuchukwu Benjamin  
OGIDI, Johnpaul Emeka  
OWOYEMI, Bukola Yemisi  
YESUF, Saheed Olayiwola

ALAIYE, Adekunle Peter  
ALUKO, Funmilayo Damilola  
BASHIR, Sadiyah Suleiman  
CHUKWUKAH, Kashie Nkairu  
EKPE, Aniebiet-Abasi  
EZEBENNE, Ifeoma Elizabeth  
GIWA, Zainab Oluwafisayo  
JEMIDE, Weyinmi  
NNAEGBUNA, Lilian Udeaku  
NWACHUKWU, Oluchi Gillian  
OBIUKWU, Charles Nnabuike

OGUNKUA, Yewande Olufunke  
OLULEYE, Olufunke Abimbola  
OKUDO, Elochukwu Frances Onyinye  
OLADOGBA, Juliana Bosede  
ONOLEMHENMHEN, Gloria Oghomen  
ORIFE, Jabor  
OSUJI, Uzoma Nnamdi  
OTESANYA, Bankole Charles  
OWOLABI, Abimbola Oluwole  
SAALE, Michael Kanadum  
UDOGU, Gerald Chigozie  
UGO, Nneoma Mary

***Third Class***

ABDULLAHI, Rabi  
ADENIYI, Abayomi  
NASIRU, Idris

**Department of International Relations**

***Second Class (Hons.) Upper Division***

EMEH, Alexander Emeka  
OBIDEYI, Olufemi Omowole  
UWAFILI, Eziafa Yvonne

***Second Class (Hons.) Lower Division***

EJERE, Idowu Okheren  
ETAREH, Faith  
EZEIFE, Ebelechukwu Nneka  
OKEHSOLA, Oladipo Agboola  
OKPOKPOR, Emifome  
TALABI, Adefunke Toafikat

***Third Class (Hons.)***

ADEGUN, Bolatito Kafilat  
AJUWON, Neenat Omobodunni  
INEGBESE, Linda  
NNAMDI, Amaka Chinenye  
OGUNBOR, Isoken Adedayo  
OLAIFA, Oluwadamilare Habibat  
SADA, Nafiu  
UMEOJIAKU, Onyinye Nnema

**Department of Mass Communication**

***First Class (Hons.)***

MENSAH, Yvonne Modupeola

***Second Class (Hons.) Upper Division***

ADEUSI, Adetoyosi Aderonke  
COKER, Adeleke Adedeji  
IKERODAH, Joseph Omoh  
OKOSE, Joshua Chude  
OLELE, Nkiruka Joy

***Second Class (Hons.) Lower Division***

AKENUWA, Isoken Sandra  
ENAOHWO, Amy Benaebi  
NWOSU, Priscilla Uloma

**Department of Political Science**

***Second Class (Hons.) Lower Division***

AKAPO, S. O.  
OPONE, Obiamaka

***Third Class (Hons.)***

OROKODARE, Ayodaae  
MOHAMMED, Abubakar

***Pass***

ENUMAH, Edaeka

**COLLEGE OF BUSINESS AND  
MANAGEMENT STUDIES**

**Department of Accounting**

***Second Class (Hons.) Upper Division***

AJABOR, Patience Ifeoma  
EZE-AJOKU, Chinedu David  
KALEJAIYE, Kafilat Adenike  
OLANIPEKUN, Omolara Remilekun  
TIAMIYU, Oluwadamilola Olabisi

***Second Class (Hons.) Lower Division***

ADEBIYI, Oluwatosin Deborah  
ADEJUGBE, Adetayo Joseph  
ADEBUAH, Hilda Ekwi  
AFATAKPA, Dafe  
AGU, Nneamaka Agatha  
AKITAH, Shirley Isimenmen  
AKPEDE, Oghenetega  
ATTOH, Emeka  
AYODELE, Damilola Oluseyi  
BABAHA, Ahmed Imokhai  
CHISOM-NJEMANZE, Bob

EGBASE, Oseghale Jude  
EGHOBAMIEN, Ivy Ivie  
EMEKEME, Onoriode Love  
ERHUNWANNUNE, Tracy Ejomo  
FASAANU, Folake Eunice  
IHENACHO, Ugochi Chinonyerem  
BOMS Ruhuoma Ada  
IKEDINMA, Ugonma Christian  
JOS-BAZUAYE, Edema  
MARANZU, Victor Uchenna  
MEINANE, Boyeloyofa  
NWAFOR, Roseline  
NJEMANZE, Chisom Bob  
OBELAWO, Temitope Toyosi  
ODIAMON, Stella Osamudiamen  
ODIETE, Uruemesiri  
OGUNAIKE, Temitope Efunkemi  
OKECHUKWU, Angela Obiageli  
OKOKOWA, Elomena  
OKUGO, Iheoma Peace  
OLADOKUN, Kazeem Segun  
OLASANOYE, Doris Omodolani  
OMONEDO, Samuel Oritsema Yemite  
OMOTHEHINSE, Oluwakemi Omolara  
ONOWENERHU, Gwonorabe  
OWAMAGBE, Sandra Eniye  
PERIGRINO, Aramide Claudia  
UBOGU, Uche Martins  
UGONABO, Stanley  
ADEGBAMIGBE, Ibrionke Felicia  
NWORJI, Cinyelu Clara  
OMIMI, Oghenevwaire Vanesa  
UREVBUBU, Leonard

***Third Class (Hons.)***

BENSON, Idris Adetokunboh  
EBO, Udochukwuka Hinda  
IJOMONI, Anthony Akpevwoghene  
LAWRENCE, Dango Wakat  
OMO-ERO, Isoken Nancy  
UMAR, Zaharudeen

**Department of Banking and Finance**  
***Second Class (Hons.) Upper Division***

EDEM, Ene Bassey  
EMMANUEL, Kafilat Abiola

***Second Class (Hons.) Lower Division***  
MUSTAPHA, Olarewaju

***Third Class (Hons.)***  
ADU BDY, U. Sylvester

**Department of Business Administration**  
***Second Class (Hons.) Upper Division***

AKENZUA, Omorose  
EFFIONG, Victor Sunday  
EMODI, Ikechukwu Chukwuemedie  
JOHN, Stephanine Chinwe  
UKO, Nsisi John

***Second Class (Hons.) Lower Division***

ADESINASI, Babajide Francis  
AJIBOYE, Olufunke Oyinloye  
MADUKA, Obianuju Chiuzor  
OKEKE, Maribel Uju  
OKON-INYANG, Enochong  
OMOROGBE, Ivie  
ORU, Oghenerukevwe Brain  
UDEH, Nkiruka  
UGBAJA, Nneka Oluwatoyin  
USMAN, Cynthia Mnena  
INGAWA, Nafisah Salisu  
GUOBADIA, Bridgettaah Ebize  
IYOMAHAN, Owen  
ODOSEN, Otobong Edison  
OMO-ODIASE, Ivie  
OMORUYI, Ugbosa  
ORLUKWU, Chibuikwe Charles  
UGONA, Ugechi Valentina

***Third Class (Hons.)***  
ORIEKHOE, Osagie

**COLLEGE OF LAW**

***First Class (Hons.)***  
ORUCHE, Amaka Faith

***Second Class (Hons.) Upper Division***  
AJIDAHUN, Adeoye

IGE, F. Oluwabunmi  
ILOABUCHI, Ngozi Blessing  
LEGHEMO, Solomon  
NWABUNIKE, Ifemba  
OKE, Titilayo  
OLIOMOGBE, Marian  
ONIANWA, Obiageli Sandra  
UDOBONG, Emem Uduak  
UGBO, Daniel Jones  
VIKO, Iyadah John

***Second Class (Hons.) Lower Division***

ADEJUYIGBE, Ruth  
ADEYEMO, Babajide  
AHONSI, Priscillia  
AKHERE-UGBESIA, Edetubu  
AKINLEYE, Olutope  
AKPETI, Vinalaifa  
ALADEJEBI, Francis  
ATABO, Peter Onankpo  
ATIVE, I. Elizabeth  
DOTTIE, Toritseju  
EDEH, Idozinum  
EJEKE, N. Samuel  
EJEKWU, Leslie  
ENAI, Elizabeth  
FADUGBA, A. Tolulope  
FADUGBA, Adeola Temitope  
FEBOKE, Ezuomowe  
IDRISU, Aishetu  
INKO-TARIAH, Sobomabo  
INUKAN, Omolayo Meka  
NWODO, C. Ifunanya  
ODEH, Enifeno  
OGUNWALE, Adetokunbo  
OKEKE, Ezigbo Chimoa  
OKOLI, Nonso  
OKPEBHOLO, Onomen Freda  
OYEKANMI, Adetutu  
SILAS, Ajuma Blessing  
WOKOCHA, Chioma

***Third Class (Hons.)***

ADEBIYI, Adetunji  
ADEYEMI, Omolayo  
ADIGWE, Ezekiel

AGBONTAEN, Amaeze  
AKHERE-UGBESIA, Sadoh  
AWOLUMATE, Olukayode  
CHIMA, George Somto  
DIKE, Rebecca  
EJOVI, Eseoghene  
EZE, A. Ngozika  
IKEAZOR, Chidinma Timothea  
KUYE, Oluwabukola  
MACGREGOR, Labiran Omolara Oyibinga  
MOKOLO, Jennifer  
MUOKA, A. Ijeoma  
NINIS, Nnamdi Franklin  
OBAZELE, Blessing  
OBIORAH, Chinonso  
ODION-UGBESIA, Enahoro  
OGBEIDE, Ehiazonim  
OLAJIDE, Marian  
ONIANWA, Jennifer  
ONIANWA, Yvonne  
OPIA, Thelma Grace  
ORUGBO, Onajite  
OSAWARU, Osayuwamen  
OVIawe, Esosa  
OWAMAGBE, Shirley  
SOKALE, Babasoji  
UZAMERE, Abiemwense A.  
IHEAZOR, Onyeka Alex  
NWASIKE, Raymond

**COLLEGE OF HEALTH SCIENCES**

**Department of Biochemistry**

***Second Class (Hons.) Upper Division***

ADENIYI, Adedamola  
ALLU, Titilayo  
OJEAGA, Enibokun

***Second Class (Hons.) Lower Division***

AISIEN-OGBEBOR, Okunwa  
EZEIBE, Chinezelom Florence  
IDAHOGBONNERAN, Vera  
IJASAN, Bayode  
MAJOROH, Awhejevu  
ONI, Olajumoke  
OYEFULE, Funmilayo Shenel  
UKWOMA, Adaku

***Third Class (Hons.)***

ABAJA, Vivian  
ASODIKE, Adak  
EKONG, Ekaette Monday  
ETIFA, Perezimor  
EZE, Uzoamaka  
NWALA, Chioma  
OVIA, Michael M.  
EZEIGBEDE, Ivie

**COLLEGE OF NATURAL AND  
APPLIED SCIENCES**

**Department of Biological Sciences**

***First Class (Hons.)***

NDUKWE, Ijeoma Chikodi

***Second Class (Hons.) Upper Division***

ARAGBAIYE, Young Mary  
AWANI, Weyimi Ayokunle  
BUKOYE, Adejoke Adedoyin  
OKWUAGWU, Chika  
AMOWIE, Osaretin Kelvin  
OSEMWINYEN, Abieyuwa Lucy  
OVABOR, Ese Francisca  
PETERS, Sunny Odili  
SHONOLA-SHOYINKA, Abosede

***Second Class (Hons.) Lower Division***

ADEWAKUN, Omolara  
AGBARAH, Blessing  
AKHIGBE, Obehi Jessica  
ALIYU, Rabi Mohammed  
AMOSUN, Olayemi  
ANICHEBE, Sylvia Nneka  
ASH-BAKARE, Kareema  
BARIGHA, Erefakuma  
BUSARI, Olajumoke Toyosi  
EBOREIME, Ehimiye  
EHIMIKA, Olohitare Juliet  
ERHAHON, Osagioduwa Osarumwense  
ERIAMATOR, Ikponmwosa  
EZENWA, Chinyere  
FADASE, Olumide

ILUYOMADE, Tolulope Akinwale  
IRABO, Osasumwen  
ISIJOLA, Ajibike Olayiwola  
IYAMOLERE, Fadeke Glory  
MBADUGHA, Pamela Ijeoma  
NJEMANZE, Ulumma Chidinma  
ODEH, Grace  
OGBE, Opeoluwa Olakunmi  
OGUNLABI, Adeola  
OKPALUGO, Chioma Genevieve  
OLUWASANMI, Aanuoluwapo Bosede  
ONIMOLE, Olufunke Sandra  
ONİYAMA, Oghenero  
ORLUKWU, Ngozi Vivienne  
OYEDOTUN, Ololade  
SOLAGBADE, Adepeju Adesola

***Third Class (Hons.)***

ADETUNJI, Adeyosola Adetunke  
AKENZUA, Egbe Precious  
AKENZUA, Owen Jackson  
ANENE, Chiemezie James  
EBOIGBODIN, Eve Osayi  
EJEDEGBA-MRAB, Oghoghome Samuel  
EKHABAFE, Mineneh  
ENEOWE, Ozioma Mitchel  
EZEDOM, Obidi  
JESUOROBO, Maye Naomi  
MORAH, Chinwe  
NMOYE, Francisca Nkeonye  
OBUKASE, Oghenekaro  
OMADAN, Charity Elejo  
ONUOKA, Edith Nwamaka  
ORADIEGWU, Vivian Nkiruka  
OTONO, Tawakalotu  
OKORONKWO, Delphine

**Department of Computer Science and  
Information Technology**

***First Class (Hons.)***

HASSAN, Zainab Oluwakemi  
JEGBEFUNE, Ekiegini

***Second Class (Hons.) Upper Division***

ADEWOLE, Mutiat Abbass  
AKERELE, Oluwaseyi Bankole

ANOBALI, Taiwo Uzoamaka  
 ARUERE, Ufuoma Efe Adelyn  
 BAKARE, Abimbola Omowumi  
 IKOMI, Aiello  
 NMADOZIE, Chika  
 OGUNBANJO, David Olaseyi  
 ADEDAYO, Adenike Folasade

***Second Class (Hons.) Lower Division***

ADELAJA, Oluwaseun Michael  
 AGBODIBU, Finel  
 ASOBE, Uzoezi Grace  
 AKINYEMI, Temitope Omotayo  
 ALAO, John Adebayo  
 AMACREE, Samuel Ibinabo  
 AMASON, Ibukunwolaw Samuel  
 AWOLUMATE, Abee Olusegun  
 BAMAWO, Lami Izore  
 BENSON, Adeboye  
 COKER, Oluwadamilola Adewumi  
 COLE, Yetunde Georgina  
 EHINLAYE, Orinze Temituoeye  
 EMMANUEL, Opeyemi  
 FAKULOJO, Olakunle Anthony  
 IKPO, Emmanuel Ashimiedua  
 IKPO, John Enujelo  
 JIMOH, Oluwatoyin  
 NIEFERE, Eteno-Abasi Akpan  
 NWAFOR, Caroline Chinenye  
 ODEH, Esosa Rosemary  
 ODOGWU, Frances Chionye  
 ODOH, Valentine Okudiri (Jr.)  
 OGUNNUSI, Olunanowa

OGUNWALE, Oluranti  
 OJAMERUAYE, Benora Eloho  
 OLABISI-ABDUL-Waheed  
 ONIANWA, Chinwe Stephanie  
 OSAGHAE, Ayowe Getrude  
 OSHODI, Marian Atinuke  
 OWOLABI, Oluwakayode Akinloye  
 PAM GYANG, Philip  
 THOM-MANUEL, Alalibo Emmanuel  
 YESUF, Hamed Oludare

***Third Class (Hons.)***

ANIEFUNA, Blessing Adaku  
 BASARU, Hamed Olumide  
 ENODANO, Owhoede  
 EZEIBETO, Chukwu  
 NWABALU, Chibuike Innocent  
 OGBUAGU, Franklin Chikwudi  
 ABIDOYE, Okirijesu Samuel  
 TIM-EFOBI, Kosi

**Department of Chemical Sciences**

***Second Class (Hons.) Upper Division***

OGUCHI, Laruba  
 OWOSEN, Olajumoke Ayobami

***Second Class (Hons.) Lower Division***

AMADI, Ichechi

***Third Class (Hons.)***

NGENE, Chioma

**DEGREE ANALYSIS**

College/Department	1 <sup>st</sup> Class	2 <sup>nd</sup> Class Upper	2 <sup>nd</sup> Class Lower	3 <sup>rd</sup> Class	Pass	Total
<b>ARTS &amp; SOC. SC.</b>						
Economics	-	10	24	3	-	37
International Relations	-	3	15	-	-	18
Mass Communication	1	5	3	-	-	9
Political Sc & Public Admin.	-	-	2	2	1	5
<b>BUSINESS &amp; MGT STUDIES</b>						
Accounting	-	6	44	6	-	56
Banking & Finance	-	2	1	1	-	4

Business Admin.	-	5	11	7	-	23
<b>HEALTH SC.</b>						
Biochemistry	-	3	8	8	-	19
<b>LAW</b>	1	11	30	30	2	74
<b>NATURAL &amp; APPLIED SC.</b>						
Biological Sc.	1	13	27	17	1	63
Chemical Sc.	-	1	1	1	-	3
Computer Sc. & Info. Tech.	2	9	34	8	-	53
<b>Total</b>	<b>5</b>	<b>68</b>	<b>200</b>	<b>83</b>	<b>4</b>	<b>360</b>

**LIST OF GRADUATING STUDENTS  
2006/2007**

**COLLEGE OF ARTS AND SOCIAL  
SCIENCES**

**Department of Economics and  
Development Studies**

***First Class (Hons.)***

AJIBOLA, Kikelomo Aina  
OMOTOYE, Abidemi Temitope

***Second Class (Hons.) Upper Division***

ADEKANMBI, Oluwatomilola  
ADEWAKUN, Abisola Gbemisola  
ADIMULA, Abimbola Adetayo  
AJALA, Oluwaseyi Abiola  
AJIBOSIN, Ganiyat Abiodun  
BASSEY, Ubong Thompson  
EKWUEME, Florence  
ELETU, Musa Kolawole  
ETELE, Adaora Chioma  
EZEEMO, Chidinma Uchenna  
EZELI, Onyinye Lauren

IKEH, Frank Emeka  
IMOSEMI, Sunday Isevboje  
KANU, Chiduziem Isdore  
MORAH, Emmanuel Uzor Godfred  
MUSA, Adamu Jamila  
NWAEJIKE, Nneoma Nancy  
OGUNDE, Olufunke  
OHUNAYO, Fumilayo O. A.  
ORIGHOYEGHA, U. Eseroghene  
ORUCHE, Ijeoma  
UDOJI, Jennifer Ifeyinwa  
UMEOHIA, Nwanneka Hope  
YUSUF, Kabir Muhammed

***Second Class (Hons.) Lower Division***

ADEGOKE, Adesoji Stephen  
AGBAJELOLA, Adedoyinsola Lolade  
AHMADU, Bello Jalilah  
AHMED, Abdulkadir  
AJURU, Chisom Chimezu  
ALADELUSI, Ayooluwa  
ALIU, Oluwatoyin Tolulope  
BOLAJI, Afolabi Idris  
CHIGBUE, Obiageli Azuka  
CHINEMELU, E. Izuebukwu  
DADA, Olaniyi Bala  
DURU, Anthony Chima  
DURU, Chijioke Uchenna  
EBHOMENYE, Davies  
EGBAGBE, Eshomakale E.  
EMODI, Chibogu Ngozi  
ENEKWE, Olivia Chinelolum  
EZENABOR, Ifeyinwa Maryam  
FOK, Kuntak

GBAKINRO, Adedamola James  
HABIBU, Hauwa  
IBEGBULEMI, Uche Philip  
IGWILO, Chinedu  
IKPE, Kufreobong Nyong  
IMUZEZE, Erekpitan Obehi  
INEGIBO, Rekiya  
JAMES, Opeyemi Oluwadusin  
KANTYEN, Bala Kevin  
KAYODE, Abayomi Julius  
LEFI-ABUDU, Linda  
LIADI, Omotayo Ibrahim  
MOGAJI, Oluwatosin  
MUO, Chukwuma Charles  
NSODUM, Davidson Chiso  
NSOFOR, Anthony Chidozie  
NWANKWO, Emeka Valentine  
NWODO, C. Nelson  
NWOSU-IHEME, Uzodinma  
OBI, Daniel OlisaEloka  
OBI, Obiajulu Kelechi  
OBIEKEZIE, Promise  
OBILEYE, Tolamisha Zainab  
OBODAI, Evelyn Torshie  
ODIAEHI, Sylvia Ehulu  
OGHOLOH, Osazemhen  
OGHUMA, Edwin  
OGUNYEBI, Olakunle Moyo  
OHIKU, Valentine Omoforma  
OKORO, George Chinonso  
OKUDOH, Adaobi  
OLAYINKA, Abimbola Omotola  
OLUKOGA, Gbemisola Oluwakemi  
OMERU, Akpevweoghene M.  
ORJI, Obinna  
OROVBONI, Hannah Ochuko  
OSHODI, Disu Akinsanmi  
OSITA, Lawrence Izuchukwu  
OTEHERI, Oghenetejiri  
TABOWEL, Emmanuel James  
UMARU, Mohammed  
WONI, Osi Abdulrahman  
YAHAYA, Yakubu  
Yusuf, Idefojo Abdulrahmah

***Third Class (Hons.)***

OKPAISE, Judith Omolefe  
OZOEMENA, Ebere Cheta

**Department of International Relations**  
***First Class (Hons.) Nil***

***Second Class (Hons.) Upper Division***

CHIBO, Ezinne Anita  
EGBE, Helen Ernet  
HARB, Cynthia Anuoluwapo  
UDOUKPA, Imabong Akpabio

***Second Class (Hons.) Lower Division***

ABDULKADI, Hauwa  
ADIO, Kafayat Bamidele  
AKEJU, Adeyinka  
AKPARANTA, Jackie Enyinne  
ALEYIDEINO, Dianne Y.  
ANUMUDU, Linda Chinonso  
CHIALU, Divine Izuan Chukwu  
COLE, Elvis  
EGBUCHEM, Chukwubuka Michael  
EKISOWEI, Oyinkro Michael  
ESIMAJE, Weyinmie Cynthia  
ETIEBET, Sarah Nmayen  
IDOKO, Victoria  
IYAOMOLERE, Eliphus Adedamola  
ODIASE, Jennifer Chukwufunnaya  
OFOEGBU, Nnenna Ukamaka  
OGBOMO, Tina  
OGUNBOR, Osas Micheal  
OKORI, Mimi Gift  
OLADOKUN, Kudirat Lanre  
OLU-EGBUNIWE, Nkechi Vivian  
OMORUYI-ERO, Iziengbe Angela  
OPATOLA, Adebusola Sekinat  
OSUALA, Humphrey Arinze  
OTASERE, Osas  
UBAH, Goodness Nzube  
UZO, Chinoyerem I.  
***Third Class (Hons.)***  
AFEBUAMHE, Emmanuel  
GILIAN, Garuba  
IRA, Dianna  
ISEDEHI, I. Ighodaro  
MUMUNI, Hassanat Adetla



OJEME, Nkem  
UGWUEGBU, Uzoma

**Department of Mass Communication**  
***First Class (Hons.) Nil***

***Second Class (Hons.) Upper Division***

AIYEDUN, Sophie Yemisi  
AKEH, Idide  
AKINJAGULA, Esther Oyebusola  
AKINLABI, Olabisi Elizabeth  
ATANDA-OWO, Kikelomo  
CHUKWU, Chidi Charles  
EJEKE, Dianne O.  
HENSHAW, Ikorenyin  
KOMOLAFE, Tomilola Clarine  
NABENA, Ebilayela Rosemary  
OGUNDE, Funmilayo  
OKOLI, Chinenye  
ONUWAJE, Amanda Temisanren

***Second Class (Hons.) Lower Division***

ADEOGUN, Omolola  
ADETULA, Tosin  
APATA, Yetunde  
ASUQUO, Jennifer C.  
DOYLE, Kaka Aderemi  
EHIMIAGHE, Ayodele Yeside  
ETIM, Enobong Eddie  
ITA, Emenubong Bassey  
JINADU, Awanat Olabisi  
MOMOH, Meriam  
ODUBORE, Dupe Ania  
OGUNSOLA, Abidemi  
OKOLI, Chinazo  
OMADAH, Deborah Ojoma  
ONUWAJE, Omatseye

***Third Class (Hons.)***

ARINZE, K. Mary-Ann  
ARUWAJOYE, Bolanle Esther  
GIWA, Fausat Folakemi  
MARIZU, Eberechukwu S.  
OBONNA, Christine Uchechi  
UBAM, Nneyen Ntefion

**Department of Political Science and  
Public Administration**

***First Class (Hons.) Nil***

***Second Class (Hons.) Upper Division***

BAKARE, Yetunde Tawakaleet  
EBIEDE, E. K. Christian  
KANU, Chinenye Gloria

***Second Class (Hons.) Lower Division***

ABDULRAHMAN, Aminu-Ali  
BOBAI, Bawa  
EJEMUDIA, Ure Adesoghene  
ENYAKENYI, Daniel Etim  
EZENWAFOR, Obiageli Amaka  
INU-UMORU, Jafaru  
IRIVBOGBE, Itua Osadolor  
MUSTAPHA, Shehu Risikat  
NELSON, Israel Godwin  
OBILEYE, Tope Kazeem  
ODION-UGBESIA, Oseiwe  
OGUNBOR, Osarobo Naomi  
OKOBI, Nnamdi Sylvester  
OKOSUN, Nelson Omon  
OLATUNJI, Adeyoola Moyo  
SOLOMON, Solomon E.  
USMAN, Asiya Yuguda

***Third Class (Hons.)***

ABDULKADIR, A. Abdulkadir  
ANUMUDU, Austine Okechukwu  
OKEKE, Ejike Justice  
ONI, Oluwakemi Ojuolape  
SHEHU, Awak II

**COLLEGE OF BUSINESS AND  
MANAGEMENT STUDIES**

**Department of Accounting**

***First Class (Hons.)***

IKHARO, Lami Hauwa  
OLOWONIREJU, Aro Ruqayah

***Second Class (Hons.) Upper Division***

ADIO, Ibrahim Omotolase  
AFIAH, Nsikanabasi Wallace  
AKINJAGUNLA, Febisola Stella  
ARHERE, Rita Erogheneruke  
BELLO, Osagie Teslim Aghatise  
DIYA, Olalekun Olakunle  
EGBUNA, Barbara Adaobi  
EKPUNOBI, Cynthia Adaugo  
ENEMUOH, Chinyelu Linda  
EZEocha, Jennifer Ijeoma  
IBRAHIM, Kasimu Samirah  
IJIOMA, Amaka Nkechinyere  
ISAH-IKHARO, Zuwaira  
MAHMOOD, Temitope Oluwakemi Risikat  
NWODO, Obiageli Loraine  
OFFIONG, Eti-Mfon Samuel  
OGHIEAKHE, Anthony Aloye  
OJIAKO, Juliana Iruaku  
OKEKE, Humphrey Ahanonu  
OKODASO, Onajite  
OKWUBIDO, Chinenye  
OWOLABI, Ayodele Nihinlolawa  
UMORU, Ramat

***Second Class (Hons.) Lower Division***

ABDULLAHI, Amina Nnagiyawo  
ADAM, Baba Idris  
ADERIBIGBE, Omotade Olabadevole  
ADEYEMI, Titilope Oriyomi  
AFOLABI, Kabirat Remilekun  
AFOLAYAN, Oluwaseyitan Abiola  
AGBO, Obinna Williams  
AHMAD, Aminu Fauziya  
AJAYI, Adefolake Francisca  
AJUMOBI, Olaide Maltida  
AKANEGBU, Kosi Uche  
AKINGBESOTE, Mary Olasunkanmi  
AKINYEMI, Olubusola  
AKPOFURE, Omonigho  
AKUBUEZE, Chibuzor Raymond  
ALAGBE, Jacob Adeyemi  
ALAKU, Esla Maxwell  
ALLISON, Aderonke Yetunde  
AMIEBENOMO, Paulina Dazy  
ANIGALA, Omeshamisu Judith  
ANOBILI, Kehinde Chukwuemeka

ARINZE, Uche Tessy  
ASHAKA, Jonah Omamudhowo  
CHUKWULOZIE, Agatha Chioma  
COKER, Justine Bose Damilare  
EFFIOM, Asari Umoh  
EKHATOR, Osasu  
EKWEBELEM, Chidinma Sharon  
EMEKEME, Sonia Akpevwe  
EMELOGU, Edith  
ERONMEME, Akhere  
ETENG, Odong Obia  
EZEH, Blessing Ogechukwu  
HORSFALL, Ibiba Ebioboere  
IBEANU, Lawrence Ikenna  
IBERI, Obinna Macdonald  
IDAKWO, Ejutereju Bala  
IDANG, Cecilia Gordon  
IGBINOVIA, Omolola Patience  
IJEH, Nwamaka Edith  
IKEDE, Akpuview Uyoyo  
IKUSEEDUN, Abigail Oluwaseyi  
IMIRUAYE, Okeme Isaac  
ISAAC, Tamunotom Ibiene  
ISMAILA, Sajo Ahmed  
JAAFAR, Baffa Ado  
JAMES, Oluwabunmi Taiye  
JOS-BAZUAYE, Otas Otaniyen  
LEFI-ABUDU, Brenda Osarumwense  
MMEJE, David Uchechukwu  
NGATCHU, Leonie Iyille  
NKEMCHOR, Chukwuka Matthew  
NNABALU, Chinazor Linda  
NOAH, Tracy Ejiroghene  
NWAFOR, Chinelo Uzoamaka  
NWOZOR, Faith Ogechi  
OGINNI, Adebambo Tolulope  
OKE, Aloia  
OKEKE, Uchechukwu Nnamdi  
OKHOMINA, Christy  
OKPO, Iquo Etim  
OLASUPO, Elizabeth Busayo  
OLOTU, Josephine Folake  
OLUPITAN, Bolanle Olaposi  
OMOSEHIN, Jumoke Justina  
ONEYOR, Jemiyotan  
ONOCHIE, Chuka Victor

OREPITAN, Abolaji Yusuf  
ORUKPE, Joanan Eloseghe  
OSOKA, Bernard Enyinnaya  
OTOIJAGHALE, Ehizokhale  
SAPERRE-OBI, Enebigha Elizabeth  
SHEHU, Tatu Hope  
SOBUNKOLA, Olanrewaju  
UBOKUDOM, Aniedi Anthony  
UDOFIA, Ito Abasi  
UDOH, Akan Michael  
UDOKOP, Samuel Ekaette  
UMEH, Ikechukwu  
WOKOCHA, Ulma Grace

**Department of Banking and Finance**

***First Class (Hons.)***

ETOKWUDO, Amaka Perpetual

***Second Class (Hons.) Upper Division Nil***

***Second Class (Hons.) Lower Division***

ADIGBOLUJA, Olumayowa Oluwaseun  
AFOLABI, Fatimoh Tolani  
AGBOOLA, Oladele Olutope  
AJOSE, Bodunrin  
ASHAKA, Ifoghale  
BALOGUN, Oluwatoyin  
DEDE, Sekibo Tamuno  
DIKE, Chijioke  
IGBANOI, Stephanie  
OBIELUM, Ifeoma  
OGAGA, Omuvie  
OHAYA, Maureen  
OKEKE, Chigozie  
OLOKUNOLA, Abiola  
OLOKUNOLA, Olabimpe  
OLUYOMI, , Oluwakemi  
UDEALOR, Chukwudi Dennis Chika  
USANGA, Setteama Emmanuel

**Department of Business Administration**

***First Class (Hons.)***

CHIEFERO, Astra Oghenero

***Second Class (Hons.) Upper Division***

ADOGHE, Osasuyi Monica

AFILAKA, Victoria Gbemisola  
AWIAKA, Oluchi Laura  
EKATAH, Perpetua Ekiomado  
HARB, Lynda Busola  
OGUNLEYE, Alaba Banke  
OKAFOR, Chidiogo Nwamaka  
OKOPI, Steve I. N.  
OSAMWONYI, Eghosa Nosa  
SORAE, Ekhoro  
SOTA, Omonigho Jennifer  
UBEBE, Oritsetimieyin Osayi

***Second Class (Hons.) Lower Division***

ADESANYA, Oluwaseun Adeolu  
ADIGBOLUJA, Adekunle  
AFARIOGUN, Adebukola  
AGBAFUNA, Arinze Bonaventure  
AKINSANYA, Tolu  
AZUGBENE, Ihinose  
EKIENABOR, Ehijiele  
EKPENYONG, Iquo Esuabana  
EMELU, Izuchukwu Chike  
ENEJERE, Nnamdi Okeychukwu  
ERONMENE, Odion O.  
ESSIEN, Idara Nsikak  
EVIVIE, Lucky Omamuzo  
FAGBUARO, Ayodeji Oyinropo  
GARBA, Zainabl  
IBRAHIM, Umar Babangida  
IDIAGE, Ossai  
IGBAZUWA, Erdoo Mercy  
IGBINOSA, Isaiah Nosa  
ILEKHOMON, Sunday  
IWENOFU, Obianuju Belinda  
KALANAGO, Tonye Ernest  
KALAJAIYE, Adeniyi Taofeek  
LAWANSON, Ibitoye Ola  
MBA, Anthony Chisioke  
MFON, Samuel  
MMEJE, Okechukwu Peter  
MUSA-ABUBAKAR, Latifat  
NULUE, Ugochukwu  
NWAOKOYE, Christopher  
NWAORA, Ifeanyi  
NWEKE, Chigozie M.  
OBIDIKE, P. Tochukwu

OFILI, Nwamaka Benedicta  
OGBETE, Tamunotom Isaac  
OGBUJI, Stanley Chima  
OJOMO, Olorunronka  
OJOMO, Smauel Osahon  
OKEKE, John Nonso  
OKOJIE, Paul Enahoro  
OKPORU, Tubolayefa Joy  
OKWUNOKE, Alexandra  
OMERE, Emmanuel  
ONUCHUKWU, Candido Uche  
ONYEGULI, Promise Chukwuma  
ONYEKWELU, Kenechuwku Alex  
ONYEOGUZORO, Gaius  
OPUTA, Obinna Victor  
SULAIMAN, Kubra Bashir  
TIMIREN, Adejumoke  
UMAR, Najibullah  
UMOLU, Ugochukwu  
UTEBU, Vivian Telma  
UWAKWE, John Ifeanyi  
WILLIAMS, Oluwadamilola Esohe

**COLLEGE OF ENGINEERING**  
**Department of Chemical Engineering**  
***First Class (Hons.) Nil***

***Second Class (Hons.) Upper Division***

AFABOR, Efe Oghenevwogaga  
CHIBO, Eziuche Collins  
SIPHEOLU, Francis Oluwaseun

***Second Class (Hons.) Lower Division***

ABOLARIN, Olamide Omolara  
ADEYEMO, Adewumi  
AKANDE, Grace Olubunmi  
AMADI, Bobby Evans  
ESSIEN, Ekomobong  
IBANGA, Ekemini Augustine  
KANU, Ugonna Godwin  
MEGBULUBA, Bawor  
OMOLOGE, Emuoobsa Mercy

***Third Class (Hons.)***

AWOMEH, Arthur Sonny

ESSIEN, Enoitohowo Ita  
NDULUE, Chigozie  
NIKORO, Meyiwa  
OGEDEGBE, Samuel Esosa  
OJURI, Similoluwa Oluwayomi  
OKOJI, Ikechukwu Jude

***Pass***

EZEUGHOH, Chukwujindu John  
IJOMONI, Nicolas

**Department of Civil Engineering**  
***First Class (Hons.) Nil***

***Second Class (Hons.) Upper Division***

ARINOLA, Babatunde Olawale

***Second Class (Hons.) Lower Division***

ACHIMALO, Uchechukwu  
AKINFESOLA, Kayode O.  
BOMARI, Abido Edwin  
EFIOM, Ndaeyo Efiom  
OBIANWU, Okechukwu Michael

**Department of Electrical/Electronics**  
***First Class (Hons.)***

ESSIEN, Nneikutunfon Sunday

***Second Class (Hons.) Upper Division***

ADELEKE, Ademiya  
ASEMOTA, Iyeke Raymond  
ASHAOLU, Mojinoluwa Oluwadara  
IHIANLE, Omigie Osa  
OSUNBOR, Omorotionmwan Armando

***Second Class (Hons.) Lower Division***

ADEJUMO, Adeyemi Oluwaseun  
ALAKIJA, Olugbenga Michael  
EFEMOVWO, Emmanuel Edefe  
NNAMANI, Nkechi Sylvia  
ONOKWAI, Nwabueze  
OWOEYE, Oluwabusayo Adeniyi  
UMO, Nsikak Davis

***Third Class (Hons.)***

AMADI, Randy Michael  
EKEWEBELEM, Uzoma Valesi  
OKEWOLE, Babatunde  
OKONYE, Kachukwu Benedicta  
OLURUNSOLA, Olarewaju Desmond  
UDOH, Nsifo Ian

**Department of Mechanical Engineering**  
***First Class (Hons.) Nil***

***Second Class (Hons.) Upper Division***  
AFOLABI, Samuel Oluwole  
HORSFALL, Inye Ebida  
OMOLEGE, Eseakpevw John

***Second Class (Hons.) Lower Division***  
AGBESE, Samson Oche Otse  
BENSON, Eteotonron Oluwadamilare  
MAFIANA, Kobimdi Chukwuka  
ODERINDE, Kayode Titilope  
OLELE, Emeka Joseph  
OMEGA, Njemnobi Ugo  
OWOH, Raphael Onyedika  
OZOEMENA, Matthew Chibuikem

***Third Class (Hons.)***  
ODIGIE, Don Osazuwa  
ONUNWOR, Ndamati  
UJURI, Christian

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***First Class (Hons.) Nil***

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FASHOLA, Tolulope Omoshalewa  
ORUNMWENSE, Eseosa  
SOFELLA, Ibukunolwa Ayo

***Second Class (Hons.) Lower Division***  
ADEYEKUN, Felix  
ARABI, Oluwaseun Joseph  
EDET, Ubong John  
ESI, Ogbenerwegba

IBELEGBU, Ezinne Maureen  
IGBEDE, Odeh Eric  
IKE, Francisca Onyebuchi  
IKOMI, Flora Folashade  
MAJE, Nafiu Abdulahi  
OGBOGU, Austin Dianwe  
OKOYE, Tobenna Solibe  
ORJI, Cynthia Nnennaya  
OYEKANMI, Adedakun Peter  
UJE, Eje Okoji Roslyn  
UKAOMA, Ejike

***Third Class (Hons.)***

DIKE, Catherine  
NELLO-PISCERCHIA, Nello  
OJURI, Oladimeji Olufunto  
UMUBI, Ogaga Oghene

**Department of Medicine**

ABDULRAHMAN, Halima  
ADEGBAMIGBE, Babatunde  
ADEGBAMIGBE, Oluleye Deborah  
ADEKAMBI, Olawatoyin Abiola  
ADEWAKUN, Olumide  
ADEYEKUN, Adetola Charles  
AFATAKPA, Elohor  
AJAKPO, Ndadikpa  
AKINSEMOLU, Ayodeji Olumide  
ALONGE, Oluwakemi Titilope  
ANICHEBE, Amaka Frances  
EKONG, Kingsley Ekpenyong  
ETTANG, Enwongo Ime  
EZIAFA, Chiejine Maria  
IGBINEDION, Ewemade  
ISIBOR, Theodora N.  
IYOMAHAN, Coral  
JAYEBO, Tolulope Isaac  
KIO, Omomene Bolakojo  
MADUEMEZIE, Chekuba  
MEOR-ASAGBA, Ofeoritse  
OBUEKWE, Ifechukwu Chukwuma  
ODILI, Grace Nkechukwu  
ODUNZE, Pius Agbalugo  
OGOSI, Angela Nnebuogor  
OISAMOJE, Ruth Bosede  
OKHAKUMEH, Oghenovo Ifedayo

OLATEJU, Adetoun Temitope  
OLAWUYI, Michael Gbenga  
OLIHA, Ayo Stephanie  
OLUPITAN, Olayemi Kinmilola  
ORITSEWEYINMI, Dottie  
OSAYIMWENSE, Isoken  
OYEMENAN, Jideuche Hilda  
OZOR, Ndudi Mmidakota  
UWAIFO, Louis Ima

**COLLEGE OF LAW**

***First Class (Hons.) Nil***

***Second Class (Hons.) Upper Division***

ADEGBORO, Abiodun Esther  
AGUELE, Jemima Enore  
EDOH, Solomon Osilumese  
EMODI, Nneka Chinwe  
IKEDUM, Shirley Amaka  
IKOGHODE, Izegeben Talatu  
JOHN, Isaac Opeyemi  
KONYEHA, Ifeoma Ann  
OMAGE, Mercy Olohima  
ORAKWE, Tochukwu Christopher  
TIM-EFOBI, Sandra Chukwuebuka

***Second Class (Hons.) Lower Division***

ACADEME, Abosede  
ADEBAYO, Olusegun Ademola  
ADEDIPE, Adetokunbo Abisola  
ADEDYOYIN, Adegoke Victor  
ADEJUGBE, Oluwasola Rachael  
ADELABU, Grace Oluwatoyin  
ADEUSI, Temilade Adekanmi  
AGBAME, Immaculate  
AJAYI, Tobilola Iseoluwa  
AKANG, Joy Etete  
AKHERE, Vivian  
ALLI, Abimbola Ibisomi  
ANTIA, Obot Usoro  
ARENYEKA, Omamofe Valerie  
ASEMOTA, Rita Uyinmwen  
AWAK, Utitofon Anietie  
BURSARI, Abisoye Sekinat  
CHEPAKA, Minanyo Victoria  
DIETAKE, Yvonne Ojevwe

EBEKU, Winifred Adaeze  
EDOKPOLO, Osarieme  
EGBUWOKU, Enakeno Okpaemete  
ESSIEN, Mfon Godfrey  
EVBUOMWAN, Osarenoga Precious  
FADIPE, Oluwatosin Olajumoke  
IBANGA, Emediong Nsikan  
IBE, Doris Ogoma  
ICHOKU, Emeka Louis  
IKPEAZU, Chinedu Anita  
INAM, Uwem Mfon  
KUMUYI, Olawunmi Olayinka  
KUSAMOTU, Simisola  
LANRE-ADEKAGON, Olalekan  
MOLOKWU, Chinwe Beatrice  
MUSA, Fauziyah Azeezah  
NWANKPO, Ifeoma Nchetachi  
NWANKWO, Matthew Chidebe (Jnr)  
OJO, Omowunmi Gbemisola  
OKOKOWA, Valerie Eseoghene  
OKORONKWO, Enyinwa Thompson  
OKUBADEJO, Yetunde Olusola  
OLADELE, Olakunle Layiwola  
OLOTU, Oluwaseun Ibiyemi  
OLOWOYEYE, Yetunde  
OMOLOGE, Rachael Eta  
OMOTOSHO, Elizabeth Bosede  
ONWUDE, Timothy  
ORUNGBEMI, Olatundun  
OSA-EDOH, Osariemen  
OSHIOMAH, Ugienosomhi  
OSIKI, Ebiseme Chinenyenwan  
OYOYO, Chibuike Remmy  
OZIGI, Asipita Victoria  
SAGUA, Joy Aghogho  
SOLOMON, Anita Henry  
TABELE, Umanu Lisa  
UZOCHUKWU, Chioma Faith  
WARISO, Ngwamitop Lois

***Third Class (Hons.)***

ADEBAYO, Adekemisola Adebisi  
ADEBOLA, Oluwayemisi Anuoluwapo  
AGBASI, Obinna John-Bright  
AGBONGHALE, Priscilla Osaghe  
AKAOLISA, Somto Nnanna

AKHAMIE, Novera Omotayo  
 ALEGBE, Donalds Oludare  
 ALLAGOA, Monica  
 BAZUAYE, Stephanie Ede  
 BOB-MANUEL, Data Collete  
 BUSARI, Gbadeyanka Adikat  
 EKERUCHE, Chioma  
 EKHABAFE, Odenose Eshemokhai  
 ESERE, Freda Ekos  
 EZEKIEL, Temitope Grace  
 IDEHEN, Imatitikua  
 IHENACHO, Nkechi Mercy  
 IKEMEFUNA, Obiageli Pearl Julian  
 IKUEROWO, Dayo Paul  
 ISHOLA, Tina Tokunbo  
 KALIO, Iyowuna Victoria  
 NMERUKINI, Prince Chike  
 NWOBU, Richman Chinelo Ifeoma  
 NYECHE, Woluchor Nwoburuoke  
 OBI-ODUNUKWE, Henry Chidiebele  
 ODIBO, Frances  
 ODIRAH, Chioma Maureen  
 OJO, Adeniyi Adeola  
 OJOGRI, Elohor Anthonia  
 OJO-URIOMOR, Emamuzoh Sylvestina  
 OKAFOR, Goodluck Nonso  
 OLOTEWO, Ohodafe Oluwaseun  
 ORIAKHI, Precious Oghomwen  
 OTEGBADE, Iretidayo  
 OYAWOYE, Khadeejah Oyewemi  
 OYEDOTUN, Elizabeth Abimbola  
 OYUBU, Ighoyefe  
 RUGBERE, Ese-Oghene  
 UDEH, Kriss Chidozie  
 UKAH, Iye-Beten  
 USMAN, Abdulmutallab Ustaz  
 WILLIAM-JUMBO, Nim

***Pass***

AKPESUWE, Deborah Erdoo  
 ANYAWATA, Collins  
 OMOWAYE, Kolawole Olube

**COLLEGE OF NATURAL AND  
 APPLIED SCIENCES**

**Department of Biological Sciences  
 (Microbiology)**

***First Class (Hons.)***

GIWA, Aisha Oluwatosin  
 HARRY, Patra  
 OKENMUO, Erica Sochima

***Second Class (Hons.) Upper Division***

AGHIMIEN, Irene  
 AIYANYOR, Oyemwen Akugbe  
 AJOMO, Ajomo Voke  
 EBITU, Basseyy Akanimo  
 HAROLD, Gudi Iyali  
 IGWE, Amarachukwu Juliet  
 NDU-OKONYE, Onyebuchi Cynthia  
 ODUBIYI, Tolulope Omolara  
 OGIEVA, Osayimwense Erica  
 OJEAGA, Ivie Claudia  
 OKODUGHA, Laretta Otekpen  
 OKOH, Maureen Uwamari  
 OMEREKPE, Lynda Adanma  
 OMO-EGHAREVBA, Amen Jennifer  
 OMOFUMA, Ebeoseluimen Onyinyechi  
 OYAWOYE, Olajumoke Muslimah  
 OYELIAGU, Juliet Ahunna

***Second Class (Hons.) Lower Division***

ABASIAMA, Dominic Akpan  
 ABAYOMI, Temitope Joshua  
 ADEDUGBE, Adejinka Arinade  
 ADELAGUN, Olakunmi Ramat  
 ADIO, Lawal Ayodele  
 AFUROBI, Oluchi Ogechukwu  
 AGHO, Nomase Osariemen  
 AINA, Oluwatomisin Opeyemi  
 ALABI, Rotimi Ocilama  
 ASHAKA, Onome Petra  
 ATUONWU, Amarachukwu Jennifer  
 EFFIONG, Cecilia Efanwan  
 EKO-IMIRUAYE, Rukeme  
 ERHIRHI, Onoriode Stephen  
 ERIGBUEM, Nancy Nneka  
 GARRICK, Inein Victor  
 IHUEZE, Ijeoma Adaeze  
 ILEN-OTUMA, Ibhade Ifeoma  
 ILODIBE, Odera Harold

ILOLO, Pearl Erezi  
JOHN, Ese Ebahialu  
KACHIKWU, Louisa Nkechionyeka  
KONYEHA, Joy Onyekachukwu  
MAKOJI, Sylvia Mabe  
OGHENE, Iva Ovigwe  
OJOMO, Adeola Abiola  
OLUWATERU, Adeola Yetunde  
ORJI, Nnemeka Darlington  
SAIDU, Mario Maryam  
TIM-EFUROBI, Barbara  
TYONOR, Salomi Akpah  
UCHE, Doris Nnenna  
UMEZIE, Samuel Ugochukwu

***Third Class (Hons.)***

NWIZU, Ezra Chioma

**Department of Industrial Chemistry**

***Second Class (Hons.) Upper Division***

GBADAMOSI, Oluwatobi Azeezat

**Department of Computer Science and  
Information Technology**

***First Class (Hons.)***

AZIKE, Amaka  
MAKINDE, Ebenezer  
ONYEKWUM, Charles Onyebuchi

***Second Class (Hons.) Upper Division***

ADIGBOLUJU, Abiola Olwatosin  
AGBONIGHALE, Bhimen Sunday  
AGBOOLA, Morufat Aderonke  
ALONGE, Oluwasetemi  
AREGHAN, Adesua  
AWOYOMI, Odunola Anifat  
AZUMARA, Mary Adauche  
BALOGUN, Steven Olufemi  
CHIKEZIE, Anulika Mirian  
FABIYI, Oluwafemi Oluwagboyega  
IVHURIE, Albert Ogaga  
NJOKU, Ihuoma Chigoziem  
NWANGWU, Okechukwu  
OBAMO, Bukola  
OGBECHE, Queeneth Etalaowoni  
OLEKAIBE, Onyinye Anthonia

ONIYANGI, Abdulkarim Olarewaju  
SAM-OKODUWA, Cheryl Omon  
SAMPSON, Orson Jackson  
SULAIMAN, Yewande Sakirat  
UBARU, Samuel Chukwuyenum  
UHAWHA, Eloho Blessing  
UMORU, Paul

***Second Class (Hons.) Lower Division***

ADEFUSI-OWATE, Adefusola  
ADEKOYA, Oluwayowa Babajide  
ADENIYI, Oluwaseun Tosin  
ADEOYE, Oluwatosin Mary  
ADETULA, Oluwaseun  
AKINBINU, Mary Jane Morike  
AKINJAGUNLA, Faith Ebunoluwa  
AKPABIO, Esther  
ALAMUTU, Ajibola H.  
AMIOKU, Onawojiromu A.  
ATERE, Oluwatosin Adeleye  
AZIKEN, Geraldine  
AZUARU, Jeffrey Chimobi  
CHRISTIAN, Ijeoma Chidinma  
CHUKWUONYE, Geraldine Nonye  
COKER, Oluwabukola V.  
DENCHUKWU, Ugonna  
DERIKOMA, Boma  
DUROSIMI, Olaitan  
DIYA, Olalabi Oluwagbenga  
EJEMBI, Ejuru Valerie  
EJINDE, Chukwudi A.  
EKA, Voke Anne  
ESSIEN, Donati Theola  
EZEH, Ifeoma Nkiru  
EZEH, Kenechukwu Amaechi  
GOWAL, Sumuakat Gloria  
IGBINOBA, Emmanuel  
ITIMI, Emamoke  
IZUORGU, Chijioke Nnamdi  
JIMOH, Morayo Oluwadamilola  
KAREEM, Kofoworola Halimat  
MUSTAPHA, Bala Hassan  
MEGGISON, Toju  
NASIR, Kauthur  
OBASEKI, S. Eva  
ODUNEYE, Olutosin Omolayo



OGAGA, Edjere Mark  
 OGHOGHOLUSU, Kesiena  
 OGUNDARE, Peters Olajide  
 OKAKWU, Shirley N.  
 OKAM, Uzoma  
 OKHIRIA, Christopher Seun  
 OKOLI, Chukwuebuka Omeife  
 OKORIE, Emeka Chinedu  
 OMARUAYE, Jevwe  
 ONAKPOVHIE, Patrick Ovie  
 ORJI, Adaobi Charity  
 OSAYIMWEN, Sophie Omoye  
 OSHIKOYA, Idris Olawale A.  
 OSHINOWO, Kole Olumoroti

OSAKWE, Agatha Anwuli  
 OTAH, Helen Ojevwe  
 SALIHU, Ahmed Tijani  
 SUBAIR, Abiodun Ayisat  
 TEMILE, Gbubemi Jessica  
 TIFASE, Dayo  
 UMOH, Otobong Akniyene  
 UNEGBU, Uzochukwu C.  
 UTUK, Mariam Victor  
 UZAMERE, Osamwonyi  
 YUSUF, Khadijat

### DEGREE ANALYSIS

College/Department	1 <sup>st</sup> Class	2 <sup>nd</sup> Class Upper	2 <sup>nd</sup> Class Lower	3 <sup>rd</sup> Class	Pass	Total
<b>ARTS &amp; SOC. SC.</b>						
Economics	2	24	65	2	-	93
International Relations	-	4	27	7	-	38
Mass Communication	-	13	15	6	-	34
Political Sc & Public Admin.	-	3	17	5	-	25
<b>BUSINESS &amp; MGT STUDIES</b>						
Accounting	2	23	81	-	-	106
Banking & Finance	1	-	18	-	-	19
Business Admin.	1	12	55	-	-	68
<b>ENGINEERING</b>	1	12	29	16	2	60
<b>HEALTH SC.</b>						
Biochemistry	-	3	15	4	-	22
<b>LAW</b>	-	11	57	43	3	114
<b>NATURAL &amp; APPLIED SC.</b>						
Biological Sc.	3	17	33	1	-	54
Chemical Sc.	-	1	-	-	-	1
Computer Sc. & Info. Tech.	3	23	62	4	-	93
<b>Total</b>	<b>13</b>	<b>145</b>	<b>474</b>	<b>82</b>	<b>5</b>	<b>765</b>

**LIST OF GRADUATING STUDENTS –  
2007/2008**

**COLLEGE: Arts & Social Sciences**

**Department: Economics & Development  
Studies**

**Class of Degree: 2<sup>nd</sup> Class (Upper Division)**

Agulonu, Chinemelum Chinny

Eze, Henry Ikechukwu

Ibrahim, Fatima Jummai

Iwara, Koyona Loisa-Margaret  
Ladipo, Layo-Motunrayo  
Nwagbo, Ezinwa Margaret  
Okolo, Magdalyn Uche  
Oladosu, Saheed Kolapo  
Olajuwon, Yusuf Olatunde  
Oteri, Ebimami  
Soares, Lola Esther  
Uduije, Celestine Ejike

***Class of Degree: 2<sup>nd</sup> Class (Lower Division)***

Adebimpe, Adebukola  
Adetoro, Lois Doyinsola  
Aghadiuno, Loretta Dili  
Agibe, Ngoro Ngoro  
Agulonu, Tochukwu  
Aja-Nwachukwu, Sam  
Ajide, Oluwayemi Jephath  
Akindunbi, Silas Olalekan  
Akpabor, Stanley  
Aminu, Rukayat Funmilola

Mgba, Okoro Ezinne Chidiebele  
Mbiereagu, Ogochukwu  
Ndayako, Mohammed Bagudu  
Obi, Olisaeloka Joseph  
Odeniyi, O. Joseph  
Okafor, Kenechukwu  
Okoli, Ndidi Mary-Ann  
Okomo, Maria Carem  
Oko-Oboh, Isreal  
Oladimeji, Ilemobayo A.  
Olatinwo, Toyin Abduljelil  
Onyekwe, Ebubechukwu  
Oru, Tejiri M.  
Oyeleye, Ayodeji Omololu  
Ramat, Usman  
Soares, Christianah Olufunke  
Umeh, Marcel Obiora  
Uwatse, Aritetsoma

***Class of Degree: 3<sup>rd</sup> Class***

Aliyu, M. Amina  
Egwuonwu, C. Sunday  
Eko, Michael Olusesan  
Ibidapo, Adedamola Olumide  
Mohammed, F. Abdulrazak  
Obibi, Jeremiah

**Department: English**

***Class of Degree: 2<sup>nd</sup> Class (Upper Division)***

Arunsi, Ngozi Christianah  
Igharo, Isoken Renette

***Class of Degree: 2<sup>nd</sup> Class (Lower Division)***

Odoma, Margaret Arikpi

**Department: International Relations**

***Class of Degree: 1<sup>st</sup> Class***

Uloghobui, Agatha M.

***Class of Degree: 2<sup>nd</sup> Class (Upper Division)***

Badejo, Anuoluwapo Y.T.  
Brown, Adewumi Anthony  
Isoh, Ifeoma

Aminu, Shakirat Funmilayo  
Anyanwu, Ihueze  
Chinweuba, Ifeoma  
Dauda, Mubarak  
Eniekenimu, Ereboh  
Ezekwesili, Chukwuma A.  
Fatuya, Kikelomo Bodurin  
Ibe, Ukachi Orevaoghene  
Igbinedion, Etinosa  
Ijomoni, Tega Anthonia  
Imasuen, Osariemen Godwin  
Inegbese, Patrick Williams

Obaika, Rachel K.  
Okwubulu, Hilda Oge

***Class of Degree: 2<sup>nd</sup> Class (Lower Division)***

Aigbodion, Idowu  
Aliyu, Mohammed Hauwa  
Attoh, Ifeoma Adeola  
Azike, Nnamdi  
Benibo, Obomate  
Ebalunode, Osariemen Anna  
Echefu, Emmanuel Udochukwu  
Essah, Patience Moses  
Ibrahim, Khadijat Abiola  
Imananagha, Dennis  
Inu-Umoru, Zekeri Zayosi  
Kwaki, Ishaku Hellah  
Ladotasiu, Da-Marknaks  
Nwachukwu, Amarachi Ijeoma  
Nwakwesili, Arinze  
Odegbanmi, Olabode Oluseun  
Ogbodo, Emma  
Ogunbor, Ifueko  
Ogundele, Tosin Ololade  
Okeke, Euphemia Chidinma  
Olayinka, Abolanle Omowunmi  
Onuoha, Ndubuisi Kenneth  
Onyeka, Chuka  
Orejoko, Babatunde  
Oyema, Vivian  
Sambo, Wanaemi  
Umar, Babale

***Class of Degree: 3<sup>rd</sup> Class***

Akweh, Ohuma  
Biakpara, G. Tenna  
Eduok, Nsikak Edidiong\*  
Emiola, Abimbola Zainab  
Muhammed, Bala Aisha  
Omorogbe, Osaheni Sasa  
Zang, Bilkam Mariam

**Department: Mass Communication**

***Class of Degree: 1<sup>st</sup> Class***

Ogunyemi, Simisola

***Class of Degree: 2<sup>nd</sup> Class (Upper Division)***

Areghan, Odion Ighodalo  
Atugbokoh, Cynthia Nky  
Ekan, Emem Effiong  
Harry, Sotonye Becky  
Mohammed, B. Salamatu  
Momoh, Felicia Emike  
Nwosu, Ogechi  
Owolabi, Gbemisola Yvonne

**Department: Mass Communication**

***Class of Degree: 2<sup>nd</sup> Class (Lower Division)***

Achinehwo, Chile  
Adenuga, Adebola  
Alale, Leslie  
Anumudu, Brown  
Atugbokoh, Christopher  
Ekajikoko, Oluwabukola Voke  
Felegha, Annet Biyebemare  
Mekoma, Ndidi Blessing  
Okike, Emmanuel  
Olaoye, Oluwatoyin  
Shodeko, Oluwafemi  
Tonycheta, Chukwuemeka  
Yusufu, Surayyah  
Zang, Keneng

**Department: Political Science & Public Administration**

***Class of Degree: 2<sup>nd</sup> Class (Upper Division)***

Ezenyili, Obi Kelvin  
Omoigui, Aisosa Nilky

***Class of Degree: 2<sup>nd</sup> Class (Lower Division)***

Akasiaka, Harrison Denfa  
Asemota, Honesty E.  
Chukwudebelu, Obiora R.  
Ezenweputa, Sylvester  
Mbamah, Tobi Henry  
Oghobaghase, Nogosa  
Omagbemi, Emmanuel Tuoyo  
Omolabi, Jeremiah O.  
Tonweh, Tuoyo  
Udokang, Itohowo Sylvester  
Ukpanah, Akaninyene

**Department: Political Science & Public Administration**

***Class of Degree: 3<sup>rd</sup> Class***

Ahmed, Zaynab I.  
Odimegwu, Anthony

**Department: Sociology & Anthropology**

***Class of Degree: 2<sup>nd</sup> Class (Lower Division)***

Dabo, Mary Amina  
Oghohi-Oarhe, Ehiseme

**COLLEGE: Business & Management Studies**

**Department: Accounting**

***Class of Degree: 1<sup>st</sup> Class***

Etokwudo, Ifeanyi Cornelius  
Ibrahim, Maryam Kasimu  
Obika, Franklin Kodilinye  
Oriekhoe, Uhunoma Osamudiamé

***Class of Degree: 2<sup>nd</sup> Class (Upper Division)***

Aderibigbe, Rufus Remi  
Ahmed, Aishat Ronke  
Aliyu, Ibrahim  
Amachukwu, Nchedo Jessica  
Amafor, Bamafor Ebele  
Anyanwu, Ijeoma Adanna  
Emiohe, Grace Edeghogho  
Eniolorunda, Moyin  
Essien, Imaobong  
Ezeogu, Ikechukwu  
Governor, Godbless  
Igbinosun, Ivans Etinosa  
Ijezie, Chioma Lovelyn  
Ikeche, Chukkwuma Henry  
Imalennowa, Ruth Iyesogie  
Inoni, Ufuoma Neille  
Iyi, Ifunanya Adaora  
Lawanson, Ibronke Ola  
Mbanefo, Emeka Edward  
Mukhtar, Yola Yusuf  
Okere, Iheoma Ihejelemma  
Okereke, Obiananma Towani  
Olayiwola, Temitope Olawunmi  
Oriaifo, Laura Omozusi  
Oshiomah, Onomoesi

Saibu, Sifau Abdulkadiri  
Udoh, Hephzibah Sunday

***Class of Degree: 2<sup>nd</sup> Class (Lower Division)***

Abdurahim, Mohammed Aminu  
Adebimpe, Adenike Bilikisu  
Adebiyi, Oludare A. Israel  
Adeniyi, Toluwalase Comfort  
Aigbokhaevbo, Ehimare Lawrence  
Akinsanya, Afusat Abolore  
Aliyu, Usman  
Arinze, Tessy Uche  
Awe, Irene Ogenechukwu  
Awiaka, Nkechi Cynthia  
Barkindo, Mohammed Bamanga  
Ebuzoeme, Chinyere Theclar  
Ediae, Etinosa Festus  
Eguabor, Ehiaghe Cynthia  
Ehiarimwian, Blessing Amierovbiye  
Eichie, Ambrose Ehis  
Ekidem, Inieke Essien  
Eniolorunda, Ayodele  
Eze, Ikechukwu Nwachinemere  
Ibegbu, Lucy Obiageli  
Idogho, Gerald Egiemhe  
Ighodaro, Tessy Osagbemworhue  
Igwemma, Nwamaka  
Jesurobo, Osazee Terence  
Kotun, Abdullateef Ololade  
Kragha, Oghenetega  
Matanmi, Bolarinwa Zainab  
Mbelu, Nwamaka Jane  
Modebe, Vivian Nonyelum  
Mukhtar, Yola Umar  
Nkuche, Iheanyichukwu  
Nworah, Nche Princewill  
Obamojure, Hammed Adewuyi  
Obule, Tare Martha  
Oguma, Rukevwe  
Okhiku, Joseph Omole  
Omio gbemi, Asekhame  
Onu, Nwene  
Onukwue, Chinonyerem  
Onyemuwa, Ruth Abel  
Oputa, Kenechi Jennifer

Oruosah, Deborah Nwaneka  
Otoide, Osariemen  
Silas, Injirindonfaghe David  
Temile, Omayowe Daisy  
Udoh, Evans Akon  
Umoren, Etieneobong E.  
Yunusa, Gregory Omajali

**Department: Banking & Finance**  
***Class of Degree: 2<sup>nd</sup> Class (Upper Division)***

Adeniyi, Olumide Idris  
Ayeni, Akintunde Olawane  
Majoyeogbe, Kehinde  
Siyanbola, Hakeen Opeyemi  
Ucheagwu, Peace Chinwendu

***Class of Degree: 2<sup>nd</sup> Class (Lower Division)***

Fache, Samuel  
Inuwa, Hassanat  
Soribe, Ugochukwu

**Department: Business Administration**  
***Class of Degree: 1<sup>st</sup> Class***

Abaja, Maxwell  
Essien, Juliet Pius

***Class of Degree: 2<sup>nd</sup> Class (Upper Division)***

Akinyemi, Gbemisola Temi  
Azike, Chukwudi  
Durojaye, Saheed Owolabi  
Ejim, Armstrong  
Ikebudu, Ikechukwu Chukwuebuka  
Imafidon, Kelly  
Itepu, Kingsley Uwa  
Job, Irene  
Nwobu, Obiora Chikadibia  
Nzewi, Ifeyinwa Grace  
Obaika, Paul  
Oduah, Obiora Okwuosa  
Offiong, Patricia Joseph  
Okafor, Kelechi Juliet  
Okunbo, Matthew Imuetinyan  
Otuaghale, Irenosa Maris

Udoji, Leonard Afamefuna

***Class of Degree: 2<sup>nd</sup> Class (Lower Division)***

Abari-Sekinat, Olaronk  
Adeagbo, Sultan A.  
Adebayo, Fatima Oluwafunke  
Agulonu, Uzochukwu Atuegwu  
Ajujuo, Frank Ebuka  
Alawoya, Abayomi Olusola  
Aliyu, Ibrahim  
Asikpo, Mfoniso Anny  
Atulomah, Bruno Uchechukwu  
Aweda, Olukayode Adetunji  
Awudu, Oghenero Splendour  
Ayuwu, B. Favour  
Bibinu, Abdulrahman  
Dare, F. Abosede  
Ebimami, Daniel Miepre  
Ekpa, Akwaowo Kokoette  
Emina, Esther Kweme  
Ereboh, Tolumudein  
Eric, Iroka Uchenna  
Iluobe, Ejeme Ekemeare  
Iluyemi, Olayemi  
Inegbese, Michael  
Inoaghan, Ejiro Progress  
Koki, Emizibo Fanus  
Mamman, Mohammed  
Manu, Abdulmalik  
Ndubu, E. Spencer  
Negbenebor, Peter  
Obialo, Francis Ikechukwu  
Obianodo, Calistus  
Ogaga, Kemedjewa  
Ogbebor, Edosa  
Ogbeide, Israel Efosa  
Oigbokie, Francis  
Okhomina, Nosa Brown  
Okoye, Onyek a P.  
Olaoye, Oluwafunke Monsurat  
Osayomwanbo, Usen  
Owakah, Orowho Gift  
Oyeleye, Babalade Oluwaseun  
Sarumi, K. Olabisi  
Sulaiman, A. Fasasi

Ubong, John Okon  
Ubunama, Daniel Ikechukwu  
Udom, Victoria Affiong  
Umar, Lawal Faragai  
Uzochukwu, Uchenna Joseph  
Yaduma, Jerimiah Minicha

**COLLEGE: Engineering**  
**Department: Chemical Engineering**  
***Class of Degree: 2<sup>nd</sup> Class (Upper Division)***

Afabor, Ejiroghene Obaro  
Aganbi, Aghogho  
Ibrahim, Olumayowa Aminat  
Mohammed, Hafees Adebola  
Okosun, Patrick Emi  
Olofingorite, Tolayemi  
Ovbije, Oghenekevwe Serena  
Ukpebor, Enohi Samson

***Class of Degree: 2<sup>nd</sup> Class (Lower Division)***

Akintimehin, Olumuyiwa Tunde  
Chijoke-Keme, Linda Ogechi  
Egolum, Chike Henry  
Erenyanate, Inifuro Maureen  
Etele, Jideofor  
Hassan, Abdullahi Bala  
Iko, Hilda Nengi  
Kurah, Risinaha Yom  
Morka, Rachael Ehigbome  
Muobike, Anthony Okechukwu  
Mustapha, Munirat Ololade  
Odejimi, Olakunle  
Ogbonda, Joy Nene  
Ojo, Samuel Olanrewaju  
Okereke, Yolanda Akachukwu  
Onyegbula, Enyinnaya  
Ossai, Olise Oluwatobi  
Rapu, Rosemary Nneamaka  
Shinyi, Paul Akura  
Sobunkola, Michael Oluwamayowa  
Ubini, Omonigho Josephine  
Udo, Aniekan Okon

***Class of Degree: 3<sup>rd</sup> Class***  
Abbas, Ikenna Luke  
Momoh, Nanashat Josephine

Okpara, Emmanuel Chidiebere  
Onwuachu, Chinenye Gerald

**Department: Civil Engineering**  
***Class of Degree: 2<sup>nd</sup> Class (Upper Division)***

Ambaiowei, Charles Doubra  
Coker, Odunayo Oluwaseun  
Ekong, Frederick Effiong  
Nwabeke, Ihiechi Kevin  
Olagunju, Anthony Adekunle  
Orlu, Rosemary Adanwo  
Yusuf, Habeeb Tosin

***Class of Degree: 2<sup>nd</sup> Class (Lower Division)***

Achebe, Jessica Chinwe  
Dawan, Na'Ankang  
Edeki, Idianemi Taiye  
Edeki, Omua Kehinde  
Fabiya, Oluwasegun Kayode  
Folami, Idris Olatunde  
Iroko, Walter Orobosa  
Ohahuna, Ugochukwu  
Oladele, Isreal Abidemi  
William, Uwemedimo Okon

**Department: Electrical/Electronics Engineering**  
***Class of Degree: 2<sup>nd</sup> Class (Upper Division)***

Ajayi, Adekunle Bola  
Akpunonu, Nnaemeka Nnabueze  
Anagu, Tobechukwu Lawrence  
Ekpenyong, Uduakpong Edet  
Enebeli, Henry Emeke  
Esiet, Elijah Esiet  
Igbokwe, Ifeanyi Emmanuel  
Okonkwo, Ebele Scholarstica  
Omotoye, Kayode Oyebade  
Ukpong, Aniekeme Ebebe  
Umanah, Unyime Ime

***Class of Degree: 2<sup>nd</sup> Class (Lower Division)***

Adekanle, Ayokunle Oluwole  
Adewole, Feyijimi Ohioma  
Adongbede, Temitope Folashade  
Akparanta, Dafini Lesley

Aruleba, Kehinde  
 Asor, Andrew Vincent  
 Awonusi, Michael Olanrewaju  
 Azubuike, Charles Obiajuru  
 Charles, Jasmine Ibubelem  
 Chiatula, Chukwuemeka Chineye  
 Dada, Oluwashina Jeremiah  
 Egharevba, Ikponmwoza Daniel  
 Ekong, Gabriel Effiong  
 Erhahon, Osamudiamen David  
 Etiebet, Ethel Ememobong  
 Ezenwa, Chinenye Josephine  
 Ibrahim, Asmau  
 Idehen, Edosa  
 Idris, Idris Aminu  
 Ighalo, Honour Aiwanehi  
 Ighodaro, Aidelogie  
 Iheakam, Natal Edmund  
 Iyoyo, Tamunofiri  
 Jemegbe, Misan  
 Maduabum, Chukwudebelu Chukwuemeka  
 Martins, Udim Ifiok  
 Momadu, Michael Lotanna  
 Ojinnaka, Ifeanyi Stanislaus  
 Okafor, Okechukwu  
 Okelarín, Adegoke  
 Olubisi, Adeleye  
 Olu-Ibukun, Olumide O.  
 Omokuru, Oviefor Nicholas  
 Omoyajowo, Emmanuel Tayo  
 Onyes, Tochukwu Frank  
 Orimoloye, Iyinfoluwa Odunayo  
 Tombia, Donald Azuoma  
 Urevbu, Oghenewevde Martins

***Class of Degree: 3<sup>rd</sup> Class***

Asikpata, Henry Jackson  
 Oru, Tobore Okiemute

**Department: Mechanical Engineering**

***Class of Degree: 2<sup>nd</sup> Class (Upper Division)***

Avuwakoghene, Orowo James  
 Eguare, Oziegbe Precious  
 Ekpe, Kufre Imo  
 Essien, Nsikan-Abasi Sunday  
 Ogboye, Lookman Opeyemi

***Class of Degree: 2<sup>nd</sup> Class (Lower Division)***

Ajayi, Adejare Olubodun  
 Akamigbo, Chukwuemeka Uju  
 Anichebe, Uchenna Kingsley  
 Ayere, Obehi  
 Bamigbade, Oluwatoyin  
 Dafosi, Oluwasiji Benjamin  
 Dawudu, Ibrahim Shanzhi  
 Ebimoghan, Doubra Yerin  
 Ejiofor, Ikenna Nnamdi  
 Ejofodomi, Ochamuke Ojeme  
 Ekanem, Ekanem Okopodong  
 Nima, Gogorobari Barile  
 Odubo, Silverline Izon-Ebi  
 Ogbe, Ibimitomi Akinola  
 Okoli, Emmanuel Chukwunyelu  
 Omotoso, Moyosore Anne  
 Peter, Ini-Ubong Imoh  
 Shogos, Louis Gyang

***Class of Degree: 3<sup>rd</sup> Class***

Ogbonnaya, Uchechukwu Success

**COLLEGE: Health Sciences**

**Department: Biochemistry**

***Class of Degree: 2<sup>nd</sup> Class (Upper Division)***

Afeisume, Ehihumeme  
 Imafidon, Faith Idiagbonmwen  
 Ogunye, Ayotunde Oluwole

***Class of Degree: 2<sup>nd</sup> Class (Lower Division)***

Okeke, Chinenye Cynthia

**School of Clinical Medicine**

**Department: Medicine**

Adekola, Ayodele Abieyuwa  
 Adeloye, Grace Oluwaseun  
 Aderonpe, Adeope Debra  
 Aguda, Funke Elizabeth  
 Aimola, Erema  
 Akata, Eloho Uzuazokaro  
 Aliboh, Sochima Isioma  
 Arubayi, Ojeme Abimbola  
 Asemota, Esohe Bethseda  
 Balogun, Adekola Kafayat

Balogun, Adeola Muslimat  
Basaru, Najibat Mojisola  
Dafiluelo, Eghwudjakpor Mary  
Ehigie, Precious Osadeba  
Ekong, Kufre  
Ekwe, Gloria Udoka  
Eziashi, Joseph Emeka  
Fadairo, Abimbola Kafilat  
Ibie, Anita  
Iroha, Victor Kelechi  
Kalio, Belema  
Ndu-Okonye, Anthonia Chifumnanya  
Nnabalu, Chioma Roseline  
Nwadiaru, Chinedu Barbara  
Nwasike, Donald Ugochukwu  
Nwosu, Chidinma Ezinne  
Odigie, Omone Cynthia  
Ojomo, Eyotor Michelle  
Olanipekun, Olalekan Ahmed  
Ometoruwa, Ebisinde Mnebi  
Onuoha, Ihioma Destiny  
Orimoloye, Olumide Olufemi  
Orji, Nnebuihe Victoria  
Osemwegie, Iyobosa  
Owoyemi, Itunu Remilekun  
Ubajaka, Chioma Chito  
Udofot, Ekemini Cosmas

**COLLEGE: Law**

***Class of Degree: 1<sup>st</sup> Class (Hons.)***

Bamidele, Ayodeji Joshua

***Class of Degree: 2<sup>nd</sup> Class (Upper Division)***

Adedoyin-Adeniyi, Adetunji  
Akpama, Itam-Alice  
Anagu, Chimaka Mary Jane  
Anyamele, Genevieve Uche  
Aruleba, T. Yewande  
Decker, Damilola Ifeanyi  
Edem-Nse, Idorenyin Ime  
Ehinmowo, Itunu Remi  
Eremutha, Mena Mubi  
Fawehinmi, Aminat Omowunmi  
Kuejubola, Ufuoma  
Mabadeje, Peter Tobi  
Mgbemena, Rosemary Cheoma

Nwokenye, Ewere Vera  
Obichere, Uzo Ada  
Ogamba, Amarachukwu Enyinnaya  
Ogbonnaya, Chukwuma David  
Oluwagbemi, Oluwabunmi  
Oshin, Abisola  
Sulaimon, Anu-Oluwa Ibiyemi  
Udechukwu, Chisom Nneka  
Ugonabo, Uchenna Jennifer  
Umezulike, Chisomeje Cynthia  
Urechukwu, Uchenna Chigozie

***Class of Degree: 2<sup>nd</sup> Class (Lower Division)***

Abah, Perenami Ajoke  
Aboyade, Mojisola Adewunmi  
Abuwa, Elohor Mary  
Achinewhu, Chinuru  
Adebusuyi, Oluwapemi Olu  
Adegboro, Aminadab Martina  
Adegboye, Busarat Bukola  
Adeoye, Olohitare Esther  
Adetosoye, Adebisi Alaba  
Adeyanju, Abimbola Adetayo  
Aduroja, Olufunke Abiodun  
Afolabi, Ismail Olasunkanmi  
Agara, Ebiere Elizabeth  
Agbir, Dooshima Margaret  
Ahmadu-Bello Jazirah  
Ajoni, Eniola Akinola  
Ajuru, Ozununye  
Akinbode, Oluwatosin  
Akinwale, Adeola Aminat  
Akpofure, Obatare  
Akpono, Kohwo Peter  
Alamutu, Olusola Abidemi  
Alhassan, Idoko Omachoko  
Aluko, Oluwatosin Folasade  
Amajo, Onyinyechi  
Amasiemaka, Tamuno  
Aminu, Mohammed  
Amure, Opeyemi Jejeniseoluwa  
Anwana Nkoyo Anwana  
Anyene, Beluchi Adaobi  
Ashogbon, Olamide Rukayat  
Atuonwu, Tracy Eberechukwu  
Avwobobe, Oghenetejiri



Awodunmila, Feyisola  
Awokulehin, Oluwaseun Charles  
Ayelowo, Oladapo Michael  
Ayobolu, Oluwaseun Temitope  
Azinge, Obiajulu John  
Azubuiko-Udah, Nkuma Shedrack  
Babalola, Joshua Abiodun  
Busari, Gbemisola Sekinat  
Chepaka, Iworima Grace  
Chokor, Oghenerute Ejiro  
Chukwu, Vivian Chinyere  
Chukwulozie, Chika  
Dambo, Meremute  
Damieibi, Somiari  
Dan-Jumbo, Atibi  
Dibiaezue, Chioma Chizoba  
Dike Priscillia Ogonda  
Dore, Amatesiro Roland  
Duke, Ekpenyong Bassey  
Dumzo-Ajufo, Biosa Ikenna  
Duro-David, Abimbola Adeola  
Durowoju, Habibat Eniola  
Ebiki, Letinah Idubamerie  
Eda, Bemigho Alexandral  
Egbe, Tom Tamaradoubra  
Egolum, Uchenna  
Ejekwu, Gloria Udochi  
Ejiugwo, Amaka Jennifer  
Ekwale, Sarah Ochuko  
Emefiele, Kikachukwu Michael  
Ernest-Ikoli, George Nayate  
Esenwah, Judith Ifeyinma  
Esere, O. Winifred  
Essen, Edidiong Ita  
Etele, Chidinma Chukwuma  
Etim, Ekaete Eddie  
Eze, Joy Chidinma  
Folorunsho, Mosunmola Sherifat  
Gamble, Mfon Ime  
Gbenoba, Yvonne Ewere  
Ibeneme, Emmanuel Ugochukwu  
Ibikunle, Omolola Bridget  
Ibrahim, Owuza  
Ibudeh, Onyiye Jane  
Idowu, Titilayo Christiana  
Igoniwari, David

Iheme, Geraldine Chinwe  
Iheme, Jacqueline Chigozie  
Ikani, Eleojo Precious  
Ikeazor, Chinny  
Ikedum, Rosemary Chinonso  
Ikuesan, Oluwadamilola Omolewa  
Iluobe, Ilobekeme Fiona  
Inoaghan, Aghogho Joy  
Inyang, Uduak-Obong Francis  
Ipaye, Felilat Oluwatosin  
Ipinlaiye, Olubunmi Omolola  
Iwajomo, Boluwaji Ayodeji  
Jaiyeoba, Tolulope Olufunke  
Jemide, Alero Oluyemi  
Jerry, Kalu Linda Chinagorom  
Kalu, Adanze Tony  
Kehinde, Adeyemi Oluwaseun  
Kehinde, Oluyemisi Oyinlola  
Kobani, Tonbari Mgbo  
Kuejubola, Vakpo  
Kusamotu, Oluyanju Mariam  
Ladipo, Dolapo Adedoyin  
Maina, Nalong Rakiya  
Mbeh, Idara Augustine  
Mokuolu, Oluyemisi Tobi  
Moses, Idongesit Aniefiok  
Mosuro, Olasunkanmi Adesubomi  
Ndu, Chimenem Nnadi  
Nikoro, Eyeno  
Nwachukwu, Uchechi Ada  
Nwafor, Chikodi Bukola  
Nwakwesi, Catherine Nkolika  
Nwiado, David Chief  
Nwosu-Iheme, Uzoma  
Obanikoro, Abidemi Olayinka  
Obi, Chinedu Kingsley  
Obi, Onyeka Samuel  
Obianagha, Adaobi O  
Obidinma Chiziebere Obidinma  
Obong, Itohowo Ikpe  
Odey, Alice Nka  
Odogun, Tive  
Ofere, Eniola Olawunmi  
Ogbe, Abesco Mary  
Ogbue, Ifunanya Nnolika  
Ogoloma, Keledo Aston

Oguma, Ufuoma Peace  
 Ogunlana, Ayodeji Onawale  
 Ogunsote, Oluwatobiloba Olajumoke  
 Ogurinde, Rotimi Priscilla  
 Ojirevwe, Oghenerukevwe C.  
 Okafor, Simone Ukaoma  
 Okeaya-Inneh, Osahon I.  
 Okereke, Ihuoma Joy  
 Okonkwo, Chioma Nicolette  
 Okorodudu, Isioghene Tamarabra  
 Okoye, Obuteaku Ngozi  
 Okpara, Onyekachi Obianuju  
 Okporu, Doubra  
 Okporu, Ebiakpo  
 Oladele, Ajibola Toluwani  
 Olakunri, Oyindamola Olubunmi  
 Olaniyi, Mathilda Eniola  
 Olugosi-Sulaiman Okikiola  
 Olupitan, Adesola Toyin  
 Olupitan, Temitope Sarah  
 Oluwatuyi, Kayode Charles  
 Oni, Olamide Oluwatomisin  
 Onyemauwa, Ijeoma  
 Onyeobi, Trisha Ngozi  
 Osa-Edoh, Precious Osasogie  
 Oyeneyin, Olaribike Omolola  
 Pepple, Inyie Chris  
 Raimi, Adeola Kabir  
 Sobotie, Vokeroye Aimanosi  
 Taiwo, Samuel  
 Temile, Amorigboye  
 Udeaja, Adaobi Pamela  
 Udoji, Chisom Maria  
 Ukachukwu, Faith Ifunanya  
 Ukpong, Ekeminiabasi Victor  
 Umar-Sadiq, Ma'azatu  
 Umoru, Osiro Joan  
 Usman, Nana Aisha  
 Uwa, Chidinma Lizzy  
 Warrie, Enobong Okon  
 William-Chukwu, Godfrey  
 Wokeh, Godwin Ichechi  
 Worgu, Ichechika  
 Yarrow, Maudlin Tuo  
 Yusuf, Maryam Farida

***Class of Degree: 3<sup>rd</sup> Class***  
 Anyankpele, Tare Joseph  
 Asaboro, Deborah Eguono  
 Azinge, Nkolisakwu Nduka  
 Eresia-Eke, Ireoma Gabe  
 Imoniero, Austin Julius  
 Inengibo, Maryam Ebinabo  
 John, Nneka Francisca  
 Maduakolam, Chika Onyinye  
 Momodu, Olanrewaju Abodunrin  
 Omiyi, Winnifred Eghonghon  
 Onakpoya, Ruona Gloria  
 Tekenah, Eric Erefa  
 Uche, Augustina Ogechi  
 William, Jumbo Tonye

**COLLEGE: Natural and Applied Sciences**

**Department: Biological Sciences (Microbiology)**

***Class of Degree: First Class***

Abia, Blessing S.  
 Adeyemi, Temitope A.  
 Tawo, Evelyn Kankun

***Class of Degree: 2<sup>nd</sup> Class (Upper Division)***

Amioku, Theresa Oviri  
 Izagbo, Precious Ify  
 Joseph, Victoria O.  
 Makoju, Ozohi E.  
 Nnadih, Ethel  
 Ogunsanya, Abisayo  
 Okonkwo, Amarachi  
 Ugwu, Chidinma  
 Umoren, Uduak U.

***Class of Degree: 2<sup>nd</sup> Class (Lower Division)***

Akponor, Valentine N.  
 Akporugo, Jessica B.  
 Aremu, Oluwafemi R.  
 Edolo, Yinliafa  
 Gbajumon, Adeyemi D.  
 Nwalla, Stella U.  
 Obisike, Amarachi I.  
 Okoro, Julia E.  
 Ubam, Modupe N.

Udoekong, Ruth Daniel  
Viko, Sumure John  
Wokeh, Kechinyerim

***Class of Degree: 3<sup>rd</sup> Class***

Arigbogha, Maureen  
Dikedi, Edozie  
Fasalejo, Omowumi A.  
Nwokoma, Dorcas I.  
Obiora, Ngozi Tonia  
Ogbe, Tinu  
Ogbomo, Ivy Oghomwen

**Department: Industrial Chemistry**

***Class of Degree: 2<sup>nd</sup> Class (Upper Division)***

Oroghona, Obatarhe

***Class of Degree: 2<sup>nd</sup> Class (Lower Division)***

Pepple, Dobor Chris

**Department: Computer Science &  
Information Technology**

***Class of Degree: First Class***

Aladi, Chioma L.

***Class of Degree: 2<sup>nd</sup> Class (Upper Division)***

Abdul, Saheed  
Abubakar, Aminu Mukhtar  
Afolayan, Theresa Tinuola  
Akanbi, Adebola Vivian  
Akpan, Ifiok Clement  
Alabi, Aderonke  
Areghan, Akhere  
Ejemiegbeyi, Evuarere  
Ero, Esosa  
Esan, Abiola O.  
Etuk, Pamela Friday  
Garba, Abubakar Shehu  
Iroha, Onyinyechi M.  
Izuora, Adanna Jenifer  
Liadi, Omowumi Mariam  
Mustapha, Mohammed  
Nwokorie, Tochukwu I.  
Omoniyi, Ademola Isreal  
Oyarekhua, Irene

Ubogu, Isioma Krystal  
Udobia, Akanimo Ben

***Class of Degree: 2<sup>nd</sup> Class (Lower Division)***

Abdullahi, Ali  
Abel-Onyemuwa, Chinedu  
Abiodun, Temidayo O.  
Adeoye, Temitope  
Adewinbi, Adeyemi Akeem  
Adun, Omorogieva Curtis  
Amagbo, Emeka Gerald  
Amuko, Temitayo Esimaji  
Ayere, Obeahon  
Basse, Ubongabasi Ekong  
Botu, Prince  
Chiboh, Christopher N.  
Chukwudebelu, Ifeoma  
Daniel, Rita Deinbofa  
Danmusa, Aliyu Mamman  
Erhunmwunse, Osahon K.  
Evbuomwan, Nehiz  
Gbarabe, Bobo Barihada  
Ihiere, Omoruyi Joseph  
Kemakolam, Kenneth  
Ladele, Seyi  
Mammah, Aminu Dan-Musa  
Mohammed, Mahmud C.  
Nnerukini Chimeka  
Obadina, Oluafemi E.  
Obienu, Nnaemeka  
Oduonye, Lotanna Hilary  
Oga, Okechi Charles  
Oji, Michael Chukwu  
Okeke, Chikezie I.  
Okodugha, Omohobhio  
Ololo, Esther  
Onyekweli, Tolisa  
Samuel, U. Briggs  
Shehu, Awwal Abba  
Sotonye, David Iyama  
Tadiodi, Akpevweoghene  
Takon, Anthony Nkang  
Temile, Eyimisan  
Toro-Sani, Ahmed

Ubini, Edith  
Ugbaja, Ndubeze Robert  
Umo, Nsikak Akaniyene  
Usen, Asuquo Effiong  
Watsilla, Joseph Hilary  
Woluchor, Chimzi  
Yunusa, Labaran Aminu

***Class of Degree: 2<sup>nd</sup> Class (Upper Division)***

Adjarhere, Rose Yewande  
Ogunmoyero, Olatunji Francis  
Somefun, Oluremi Ibitola  
Uyebi, Gloria Efe

***Class of Degree: 3<sup>rd</sup> Class***

Agbonlayor, Patrick  
Arabisola, Tamitope  
Bisong, Bobby Owan  
Olanitori, Ayodele  
Umoh, Fidelis John

**Department: Environmental Science**

**DEGREE ANALYSIS**

<b>COLLEGE/DEPT</b>	<b>1<sup>ST</sup> CLASS</b>	<b>2<sup>ND</sup> CLASS UPPER</b>	<b>2<sup>ND</sup> CLASS LOWER</b>	<b>3<sup>RD</sup> CLASS</b>	<b>TOTAL</b>
<b>ARTS &amp; SOCIAL SCIENCES</b>					
i. Economics & Development Studies	-	12	40	6	58
ii. English	-	2	1	-	3
iii. International Relations	1	5	27	7	40
iv. Mass Communication	1	8	14	-	23
v. Political Sc. & Public Admin	-	2	11	2	15
vi. Sociology & Anthropology	-	-	2	-	2
<b>BUSINESS &amp; MGT STUDIES</b>					
i. Accounting	4	27	48	-	79
ii. Banking & Finance	-	5	3	-	8
iii. Business Administration	2	17	48	-	67
<b>ENGINEERING</b>					
i. Chemical	-	8	22	4	34
ii. Civil	-	7	10	-	17
iii. Electrical/Electronics	-	11	38	2	51
iv. Mechanical	-	5	18	1	24
<b>HEALTH SCIENCES</b>					
i. Biochemistry	-	3	1	-	4
ii. Medicine			-		37
<b>LAW</b>	1	24	170	14	209
<b>NATURAL &amp; APPLIED SC.</b>					
i. Biological Sciences (Microbiology)	3	9	12	7	31
ii. Chemical Sciences (Industrial Chemistry)	-	1	1	-	2
iii. Computer Science & Information Technology	1 -	21 4	47 -	5 -	74 4
iv. Environmental Science					
<b>Total</b>	<b>12</b>	<b>176</b>	<b>507</b>	<b>47</b>	<b>781</b>

**LIST OF GRADUATING STUDENTS –  
2008/2009**

**COLLEGE: Arts & Social Sciences  
Department: African and Foreign  
Languages (French)**

**Class of Degree:** Bachelor of Arts (French)  
**1<sup>st</sup> Class Hons.**  
Adegunle Gbemisola Benedicta

**Department: Economics & Development Studies**

**Class of Degree: 1<sup>st</sup> Class Hons.**  
Obi Chinenye Linda  
Olayanju Opeyemi Sheriff

**Class of Degree: 2<sup>nd</sup> Class (Upper Division)**

Adeniyi Adebisola  
Adeyemi Adeyinka Samuel  
Asuen Osamuyi  
Babalola Opeyemi Oladapo  
China Okoye  
Dawudu Hassana  
Duke Duke Bassey  
Ebute Wallace  
Gbadamosi Oluwaseun  
Ibrahim Jummai  
Ismaila Halima  
Kurah Alheri Nomdono  
Olajoku Folawiyo Kareem  
Okeke Kodili Vivian  
Onwughalu Oyinye Miriam  
Shittu Habeeb

**Class of Degree: 2<sup>nd</sup> Class (Lower Division)**

Abujade Abiola  
Adebiyi Steven Adediran  
Adelakun Kelvin  
Ajayi Olayiwola  
Akande David  
Akinbode Olufemi  
Aku Jerry  
Amaonye Chukwuebuka  
Duniya Basa

Edun Bababode Tunde  
Ekienabor Oyakhilome  
Igboamaeze Nkiru  
Mbu Mark

Mosindi Nkechukwuaga  
Mustapha Maryam  
Obaika Naomi Linda  
Ojo Oluwaladun  
Okeobuno Keziah Ngozi  
Okojie Adesuwa  
Okonkwo Chinenye Precious  
Okoro Ikuesiri  
Olajide Tolani  
Ologitere Misan  
Omowale Olorode  
Oni Temitope  
Orimiloye Omobolanle  
Osuntuyi Oluwaseun Samuel  
Salawu Temitope Ruth  
Shilong Philomena  
Tim-Efobi Jesse  
Usman Abdulahi Baba  
William-Ebi Imomoemi

**Class of Degree: 3<sup>rd</sup> Class**  
Ndionyema Tonye

**Department: English**

**Class of Degree: 2<sup>nd</sup> Class (Lower Division)**  
Owolabi Modupe Omolola

**Department: Geography & Regional Planning**

**Class of Degree: 2<sup>nd</sup> Class (Lower Division)**  
Ifaorumhe Samuel

**Department: International Relations**

**Class of Degree: 1<sup>st</sup> Class Hons.**  
Chijoke Onyinye Clara  
Olorunfemi Osei Mercy  
Ukaria Samson Esther

**Class of Degree: 2<sup>nd</sup> Class (Upper Division)**

Agogoh Oahimijie Linda  
Anyakpele David  
Ezeugo Chukwuemeka Gospel  
Igwegbe Chinwe  
Imafidon Osabuohien George  
Maduagwu Ugochukwu Moses  
Ogunwuyi Adetayo Philip

Omodele Atinuke Olubusayo  
Onukwuru King Wenenda  
Ovienria Akhere Augusta  
Terwase Doose Mercy  
Urevbu Egwono Sandra  
Usanga Idara Mfon

***Class of Degree: 2<sup>nd</sup> Class (Lower Division)***

Adulphus-Jack Patience  
Iwunze Chidinma Sandra  
Jeneba Eloho Mary Mimi  
Jimmy Michael Unwana  
Marcus Ngozi Sonia Ruth  
Nwokedi Ofili Charles  
Ojeabulu Onosetale Eigbiwalu  
Onaiwu Nosa John  
Oriawo David Rizichi Richmond  
Udeagwu MaryFrances  
Umanah Victoria Akpan  
Wratto Charles Kings  
Yesuf Abosedede Habibat

**Department: Mass Communication**

***Class of Degree: 1<sup>st</sup> Class***

Ordu Rosemary Chinyere

***Class of Degree: 2<sup>nd</sup> Class (Upper Division)***

Adeusi Adejoke  
Akpituren Bawo  
Atabo Achille Bernard  
Awodi Ruth  
Ebuzoeme Ifeoma  
Eleko Yejide Eyvonne  
Haruna Favour Muniratu  
Musa Jamila  
Mustapha Ngango Amina  
Nwokolo Ogoma  
Ojeleye Omotola  
Okon Ute Edet  
Okonkwo Obiageli Cynthia  
Okorie Fatima  
Orisaya Omotola Olivia  
Samuel-Atume Winnie  
Ubaka Blessing  
Uduak Elijah

***Class of Degree: 2<sup>nd</sup> Class (Lower Division)***

Adams Omawunmi  
Adenubi Shola  
Akinyemi Oreoluwa  
Amos Bio Anabel  
Asuelimen Ebiade  
Ayansi Bigtown  
Ememokumo Tokoni Joy  
Fakayode Ifeoluwa  
Odugbesan Thomas  
Ogunsola Funmi  
Olayinka Baruwa  
Omo-Izirein Adeola  
Sadiq Umar  
Uzowuru Oluchukwu Peace  
Yavbieri Esther Emuesiri

**Department: Mass Communication**

**{Public Relations/Advertising}**

***Class of Degree: 1<sup>st</sup> Class Hons.***

Atako Christiana Mbang

***Class of Degree: 2<sup>nd</sup> Class (Upper Division)***

Alabi Oluwatoyosi  
Obhimon Akhigbe  
Oboh Isimhemhe Stephanie

***Class of Degree: 2<sup>nd</sup> Class (Lower Division)***

Chile Kelly Nsirim  
John Nkechi Jennifer  
Ukatu Chidinma  
Uluabuike Chizoba Francisca

**Department: Political Science & Public Administration**

***Class of Degree: 2<sup>nd</sup> Class (Upper Division)***

Daramola Sherifat Ajoke  
George Levi Rosemary

***Class of Degree: 2<sup>nd</sup> Class (Lower Division)***

Akpononu Dickson Obinna  
Aminu Chukwueyem Anthony  
Anyankpele Dortimi

Ereboh Ebisinde Stephen  
Francis Innocent Ine  
Jada Muhammed Suleiman  
Malo Ndu Obinna  
Obiukwu Ifeoma  
Okundaye Paul Osayande  
Olaleye Akinbowale  
Salami Solomon Ohai  
Teniola Oluwaseun  
Ukandu Uchenna Ezo  
Utethe Kingsley  
Warrie Warrie Okon

**Department: Sociology and Anthropology**  
***Class of Degree: 2<sup>nd</sup> Class (Upper Division)***

Iloh Chinyere Maureen  
Ogbaudu Mavi Winifred  
Umeh Tochukwu Christopher

***Class of Degree: 2<sup>nd</sup> Class (Lower Division)***  
Obia Elu Charles

**Department: Theatre Arts**  
***Class of Degree: 1<sup>st</sup> Class Hons.***  
Enekwe Ngozi Sylvia

***Class of Degree: 2<sup>nd</sup> Class (Lower Division)***  
Oguma Ejiro Joyce

**COLLEGE: Business and Management Studies**

**Department: Accounting**  
***Class of Degree: 2<sup>nd</sup> Class (Upper Division)***

Abdulwahab Jelilat Ajoke  
Aigbokhaevbo Aigbibhalu Luke  
Ajagun Olajumoke Ropo  
Badanga Aishat Omayoza  
Eigbe Ojeifo Charles  
Ekpoudom Kufre Udom  
Enemuoh Ogochukwu Cynthia  
Ero Osaretin Alexandra  
Gbadegesin Adekunle Habib  
George Dabelema Tomidiea  
Igbinedion Osagie Christopher  
Jimoh Ayodeji Abdulrasheed

Nkanga Uduak Bassey  
Numa Oghenerukevbe Daniel  
Obazee Eghosa Stephanie  
Ogunnaike Anuoluwapo  
Okhomina Vera Oze's  
Olamilosoye Babatunde Ayodeji  
Omoregbee-Edigin Efe  
Pase Hilda Bolutife  
Ukachukwu Chidinma  
Uwafili Ofune Yvelyn  
Uwagboe Osaro Ignatius

***Class of Degree: 2<sup>nd</sup> Class (Lower Division)***

Abass Oludayo Oluwaseun  
Abubakar Aisha Ummu  
Abubakar Amina  
Abubakar Hajara  
Agati Malem  
Aghedo Florence Osadebamwen  
Akapo Kwame Theophilus  
Akuru Mirabel Eshimvie  
Anaghara Emmanuel Chima  
Atsukpe Precious Blessing  
Bassey Margaret Obot  
Bonus Alabo  
Buhari Maimuna  
Chukwuneta Onyeka Francis  
Eruanvae Olayinka Joseph  
Etor Emem Umana  
Etuk Ukemeobong Anthony  
Fakaisi Olubunmi Funmilayo  
Gambo Haruna  
Godwin-Chu Ochure  
Haruna Rukayatu  
Iwara Patrick  
Moses Olawale Babalola  
Nwaokoye Kingdom Onochie  
Odoro Adegboyega Oluwaseun  
Ogoh Jennifer Uche  
Ogunsina Florence Oluwasike  
Okereafor Uche Princewill  
Okosun Linda Irenosen  
Okpovie Clementina Ochukomena  
Onyebetor Chinye Christabel  
Popoola Gift Modupe



Sota Etareri Onome  
Udoh Nkereuwem Asuquo  
Ugboh Ossai Azuka  
Ugwu Benson  
Uzoh Joseph Obinna

***Class of Degree: 3<sup>rd</sup> Class Hons.***

Jimmy Micheal Eseama  
Olube Glory Mamatoh

**Department: Banking & Finance**

***Class of Degree: 2<sup>nd</sup> Class (Upper Division)***

Ibezimalo Chiamaka  
Mustapha Amina Mama

***Class of Degree: 2<sup>nd</sup> Class (Lower Division)***

Adamu Dauda  
Aikhomu Hannah Itohan  
Grant Weyinmi Nello  
Ikonomi Enita  
Nkadi Bernard Ifeanyi  
Oghieakhe Nicholas Oshiokpekhai  
Okafor Margret Oluchukwu  
Olayinwola Afolabi Idris  
Oyemah Edna Oyemwen

**Department: Business Administration**

***Class of Degree: 2<sup>nd</sup> Class (Upper Division)***

Akeh Eunice Nkiruka  
Akele Esosa Imarenakhue  
Aliyu Danladi  
Aliyu Mama Amina  
Baruwa Olasupo Mojib  
Bayode Olabisi Temitope  
Edebiri Aghama Joy  
Egesimba Peace Udoka  
Ibhawoh Oseghale  
Miebai Roseline Balkisu  
Nnalue Ikenna Samuel  
Odoro Adebayo  
Ofodile Chiedozi Chijoke  
Ogbonnaya Chibuzor  
Okon Charles Asuquo

Okporokpo Uvietobo  
Udoh Glory Sunday

***Class of Degree: 2<sup>nd</sup> Class (Lower Division)***

Abdullahi Hassan Adamu  
Agbogidi Eguono Winifred  
Aisuebeogun Jordan Isebohoje  
Ajayi Bisola Adijat  
Ajewole Adeyemi  
Aluku Leroy Daniel  
Boluwa Yotan  
Dantata Saadina  
Dye Wullie Markus  
Ejemai Efe Oluwaseun  
Ekhaton-Obasogie Princess  
Eletu Noah Afolabi  
Ibhawoh Odianosen  
Idiage Azukaego  
Ilodibe Chigozie  
Kperegbeyi Oritsela  
Mohammed Mukhtar Ade  
Mojekwu Dozie  
Noah Enaefe Prince  
Nwaora Julian Emeka  
Nwosu Ifeanyi  
Oguji Roland Elochukwu  
Olaniyi Ajibola  
Omokaro Ezekiel Abiodun  
Umole Etso Jennifer

**COLLEGE: Engineering**

**Department: Chemical Engineering**

***Class of Degree: 1<sup>st</sup> Class Hons.***

Adebimpe Aderinola Ibukunoluwa  
Salami Deborah Omayoza

***Class of Degree: 2<sup>nd</sup> Class (Upper Division)***

Aderinto Adesola Oluwaseyi  
Amaliri Obiageri Chinyere  
Fashanu Omolayo Samuel  
Offodum Chukwuka Dennis

***Class of Degree: 2<sup>nd</sup> Class (Lower Division)***

Achurefe Ruth Oghenetega

Akinwale Ajibola Mutiudeen  
Nwaora Stephanie Chioma  
Oguzo Anderson Chimaobi  
Oleghe Osizemetie Leonard  
Omatseye Alero Erhuvwuoghene  
Ukaegbu Uchenna David

***Class of Degree: 3<sup>rd</sup> Class***

Folayan Adenike Doyinsola  
Johnson Baribe-Eeba Sally  
Mbaba Mmedara Ita

**Department: Civil Engineering**

***Class of Degree: 2<sup>nd</sup> Class (Upper Division)***

Nwokoma Chibuike Ugochukwu

***Class of Degree: 2<sup>nd</sup> Class (Lower Division)***

Faruk Hussein Fahad  
Omoregie Marshal Osagie  
Tanno-Whyte Otemu Patrick

***Class of Degree: 3<sup>rd</sup> Class Hons.***

Makama Michael  
Obey Fabiyi Oreoluwa Olusola

**Department: Electrical/Electronics  
Engineering**

***Class of Degree: 1<sup>st</sup> Class Hons.***

Oghorada Oghenewvogaga

***Class of Degree: 2<sup>nd</sup> Class (Upper Division)***

Adekanmi Oloyede Abiodun  
Amadi Hassan  
Amosun Joseph Oyedeji  
Awe Hilary Ekaonyewehe  
Deolu-Ajayi Oluwaseun  
Eke Eke-Abiayi Emmanuel  
Etuk Dan Jackson  
Fayankin Olumide Anthony  
Mamman Abdulnasir  
Odo Chukwudi Walter  
Wobo Chinedu

***Class of Degree: 2<sup>nd</sup> Class (Lower Division)***

Agbobu Samora Machel  
Ahmed Temitope Abdulmojeed  
Bolaji Balogun  
Ebigwai Armstrong Temofe  
Eluma Gabriel Uchendu  
Hart Reginald Idipinye  
Imoh Joshua Idara  
Lawal Olamide Fuad  
Minaso Kalada Onengiye Joseph  
Obikobe Ogonna Chibuzor  
Obilomo Tolulope  
Ogaga Akposio  
Ogunbambo Leke Justus  
Okere Gracewealth Chinwe  
Onifade Sunday  
Raji Basiru Opeyemi  
Shosanya Olajide  
Warkani Barka Haruna

***Class of Degree: 3<sup>rd</sup> Class***

Okoh Kingsley Obinna

**Department: Computer Engineering**

***Class of Degree: 1<sup>st</sup> Class***

Etuk Ekemini Jackson

***Class of Degree: 2<sup>nd</sup> Class (Upper Division)***

Agbonavbare Joy Oghogho  
Egbetamah Onoriode  
Mbelu Florence Onyinye

***Class of Degree: 2<sup>nd</sup> Class (Lower Division)***

Afiakure Daniel Effiong  
Anaba Justice Ndubueze  
Anene Ifeanyi Gregory  
Ekunie Onyinye Gloria  
Goin Joseph Kemebradikumo  
Hameed Saheed Adeyemi  
Igie Efeosa Moses  
Odia Collins  
Olawoye Kehinde  
Orji Daphne Ezioma  
Ozuzu Ugochukwu Chukwubikem

**Department: Mechanical Engineering**

***Class of Degree: 2<sup>nd</sup> Class (Upper Division)***

Edentekhe Effiong Abang  
Ejekwu Ichebadu  
Ighodaro Osamuyi Joseph  
Ozoemena Nonso Emmanuel

***Class of Degree: 2<sup>nd</sup> Class (Lower Division)***

Adogu Obiادogu Chinedu  
Akiode Alexander Olusegun  
Ekanem Ubong Enim  
Nwajei Dinma Nathaniel  
Udosen Abasifak Ndifreke  
Ugo Ugoamaka Cosmas

**Department: Petroleum Engineering**

***Class of Degree: 2<sup>nd</sup> Class Hons. (Upper Division)***

Abanida Oluwaseun Amanda Adedolapo  
Giwa Abdulkabir Kayode  
Kinoshi Abimbola Omotayo  
Ogbeide Imuetiyan Deborah

***Class of Degree: 2<sup>nd</sup> Class Hons. (Lower Division)***

Finama Samuel Israel  
Lawal Oluwafemi Qudus  
Okafor Uche Adolphus

**Department: Food Science & Technology**

***Class of Degree: 2<sup>nd</sup> Class Hons. (Lower Division)***

Nyongessien Ekaete Asuquo

**COLLEGE: Health Sciences**

**Department: Biochemistry**

***Class of Degree: 2<sup>nd</sup> Class (Upper Division)***

Adeseye Adebawale Adebayo  
Anana Onyiye Jeneveive  
Babalola Olusegun Idowu  
Ebigwai Evarista Ayodele  
Funsho-Ako Joseph Kayode  
Okhomina Adesuwa

Waliu Olamide Asimowu

***Class of Degree: 2<sup>nd</sup> Class (Lower Division)***

Adaramoye Oyebowale  
Adegbuji Kemi  
Akinbobola Akinnola Juliet  
Akinmoladun Oladotun  
Akpoveti Isaac Junior  
Ambali Hadeezah  
Azubuogu Chukwunonso  
Dike Amaka Dorathy  
Ehikhuemhen Ogbole Malcom  
Ehiremen Oziegbe Israel  
Elohor Evarista Odebola  
Ezeanya Chika Maureen  
Nwaokaro Aquila  
Obialo Nelson Chidozie  
Ogidigben Karen Onome  
Okafor Charles Chika  
Okere Obinna  
Olorunfumi Ayodele Funmi  
Okoloba Azibanene  
Sowande Oyinkansola Funmilola  
Udeogu Chiamaka

***Class of Degree: 3<sup>rd</sup> Class Hons.***

Eboigbe Tokunbo  
Igbede Toni Igbede  
Odjewedje Oborakoren

**School of Clinical Medicine**

**Degree: MBBS**

Adebayo Opeyemi Mayowa  
Adedeji Jesutomipe  
Adedeji jesutomiuo  
Adediran Cornelius Ademola  
Adeniran Kolawole Olaniyi  
Aderiye Odunayo  
Aderoba Babjide Oladapo  
Agbonlahor Cynthia Edugie  
Agho Maxwell Amenze  
Aghoghovwia Esther  
Agulonu Ikechukwu Chukwudi  
Ajagbe Adekunle Oluwasanmi  
Amafor Uche  
Amakom Nneka

Aribisala Adebusola Opeyemi  
Arimah Osita Tobeckukwu  
Atabo-Peter Ojonigwu Dadi  
Ayodeji Ayowamiri Deborah  
Ayuk Sam-Mosley Asam  
Azinge Eluemuno Afumodo  
Bakare Tolulope Kudirat  
Bankole Olugbenga Abdulrafiu  
Boyi Zakari  
Chukwuma Christian Chijioke  
Deji-Odutola Bunmi  
Derikoma Obaraboye  
Dimaro Felix Boye  
Ebigbeyi-Diagi Beatrice  
Ekwuazi Hyginus Okelue  
Emuren Doubra Perekeme  
Etuknwa Ema Bassey  
Ewah Uwezele Zelda  
Ezeamah Ikenna Franklin  
Ezeude Obiageli Castille  
Faro Kudirat Oluwakemi  
Ibeme Ikechukwu Walter  
Ibhawoh Ejemen  
Ihianle Imade Olive  
Ikhara Jaleelat Imoitseme  
Imgbi Gilbert Woripre  
Iyase Anwuli Joy  
Komolafe Olurotimi Olufunto  
Lawal Basir Opeyemi  
Maduemezia Bialosa  
Mbamah Adaobi Elizabeth  
Nnaegbuna Virginia Chioma  
Nwaneri Nnamdi Blaise  
Nwaokoro Ewere Rosemary  
Nwogbo Amy Adaora  
Obi Esohe  
Odiahi Uwaye  
Ogbanje Theresa  
Ojike Ukaoma  
Oke Oluwaseun Kelvin  
Okpaleke Helga  
Okundaye Iyore Rose  
Okwuagwu Nkiruka Ashioma  
Olaitan Sunday Oladele  
Olaniyi Olatayo Jethro  
Olotu Omogbare Moses

Olumeko Olayemi  
Oluwadare Oluwafunmilayo  
Omatsone Ama Margaret  
Omatsone Anthonia  
Omidiji Oladotun Gideon  
Omotosho Yejide Adebola  
Omowaye Toyin Atinuke  
Onuoha Kelechukwu McClement  
Ormormhila Joy Isomianwu  
Oyebola Eniola Babjide  
Oyelami Bolaji Ibukun  
Shaba Olurotimi Oladimeji  
Soyemi Adeola Mojisola  
Uraih Obiageli Nuala  
Uwajeh Kenneth Nnamdi

**Department: Physiology**  
***Class of Degree: 2<sup>nd</sup> Class Hons. (Upper Division)***

Ajao Oluwatosin Temitope  
Oghogholosu Rukevwe

***Class of Degree: 2<sup>nd</sup> Class Hons. (Lower Division)***

Akpan Ubong Asuquo  
Izagbo Adaeze Irene  
Okoye Chika Sylvia  
Oladejo Eyitayo Olawunmi

**COLLEGE: Law**

***Class of Degree: 1<sup>st</sup> Class (Hons.)***  
Briggs Elijah

***Class of Degree: 2<sup>nd</sup> Class (Upper Division)***

Adegboye Adedamola Funke  
Adegor Okiemute  
Agugoesi Victor Ikem  
Ajayi Alfred Agboola  
Ajiboye Mary Foluke  
Aren Marielouise Fehun  
Benjamin Jennifer Chizoba  
Ekong Imaikop Ido  
Enyong Emma Ita  
Ezeajoku Chiediebere  
Gabriel-Whyte Aladokiye  
Itabiyi Arnoke Olayinka  
Jaja Faithful Tamunotonye

Kay-Mirrin Sophia  
Lawson Nitoni George  
Leleh Chidinma Blessing  
Nwafor Nnenna  
Obadan Efeomo Adejoke  
Obaremo Olawale Oriola  
Okon Ann  
Okoroafor Chinedu  
Oti Charles Nnaemeka  
Sulaiman Olusesan Rashidat  
Utchay Beatrice Oroma

***Class of Degree: 2<sup>nd</sup> Class (Lower Division)***

Adaba Anthonian  
Ademujimi Abimbola Joy  
Adeniyi Oladipupo Adeoye  
Adeyeye Toluwalope Ruth  
Adio Azeezat Temilade  
Agwu Ogbonna  
Ajakaiye Christy Imoleayo  
Akaya Junior Charles  
Akindele Damiloju Akanbi  
Akpofure Obukowho Eyajife  
Alagoa Carrington Alagoa  
Amaso Ibiere Bongekile  
Amosun Vivian Oyemike  
Anaba Glory Excel  
Anunam Chinweoke Emmanuel  
Atilade Faramade  
Avielele Ama Annette  
Ayodele David Mosebolatan  
Azuka Solomon Chibuzor  
Belo-Osagie Ekinadese Sadat  
Benson Ubah Tochukwu  
Bomari Ibiton Edwin  
Boufini Yinlayefa  
Daufa Mary-Ann  
Daze Anita Simret  
Dore Ayeoristeno  
Ehiemere Akobundu  
Ejidike Doris Chioma  
Eribo Amen  
Etim Idongesit  
Ezeagu Ogechukwu  
Fagbamilá Boladale  
Gbefwi Baba Keturah

Gbegi Oritsegbube  
Ibeka Cecily Uzunma  
Idebolo Lynda Esther  
Ikemenjirna Isotein Anne  
Inyangabia Utibe Moses  
Itiat Emmanuel Comfort  
Iyi Chizoba Victoria  
Kperegbeyi Weyinmi Edman  
Momoh Loveth  
Muhammad Habiba  
Njemanze Nneoma Onyinye  
Nwaoboshi Ifeanyi Lilian  
Nweke Stanley Obiora  
Nwokolo Ifeyinwa Chinwe  
Nwuche Benjamin  
Nyongessien Asuquo Asuquo  
Obamojure Rashidat Banke  
Ofeimun Ese  
Ogor Onome  
Ogunbambo Olajide Odubiyi  
Ogunshakin Benard Temidayo  
Oharisi Jeremiah Avwenaghogho  
Ojenikoh Augustina  
Okelue Ogechukwu  
Okonkwo Anita Nonye  
Okorie Ojiugo  
Okoronkwo Adaeze  
Olabisi Ruth Olufunmilayo  
Olajide Anthonia Ifeoluwa  
Olaleye Omowunmi  
Olapke Ovie Tobi  
Olatigbe Diana Olakitan  
Olowokere Oluwatoyin  
Onwe Vera Ndidiamaka  
Onyebinanma Bright Chimezie  
Opuiyo Linda Asikyeofori  
Oranika Jennifer Obianuju  
Orimoloye Gbemisola  
Osokolo Willie Nnamdi  
Osuigwe Justin Obinna  
Osuji Ebere  
Owoyemi Omotola Temitope  
Oyewo Oyenike  
Soetan Toluwalope Olamide  
Tebepah Gbanaibolou  
Tunyan Deinyefa

Ubaka Loveth Onuwa  
Udodong Sam Edikan  
Udoh Ann-Sophie  
Ue-Bari Queen Letor  
Uffort Joy Idara  
Ugwu Chukwudi  
Usuh Abieyuwa Stephanie  
Utchay Jim Hanachor  
Uzor Samuel  
Woke Ann Nkechi  
Wokoma Tina Chizi

**COLLEGE: Natural and Applied Sciences**

**Department: Biological Sciences (Microbiology)**

***Class of Degree: 1<sup>st</sup> Class Hons.***

Ajuwon Oluwafemi Adebayo  
Oyeleke Olarenwaju Benjamin

***Class of Degree: 2<sup>nd</sup> Class (Upper Division)***

Adejo Olatunde Adebola  
Agumor Tina Eloho  
Akosile Priscillia Onaopemipo  
Amune Omine Peace  
Anokwuru Joseph McHuges  
Awak Ndueso Anietie  
Coker Efunyinka Abosede  
Egharevba Joy Asiriwuwa  
Ejeh Iyeoma Faith  
Ekunie Ogehchukwu Francis  
Ezeonwu Henrietta Chika  
Jayeoba Oluwakemisola Lydia  
Johnson Elizabeth Ubong  
Kamoju Zainab Omolola  
Nduonofit Mmaeka Diana  
Nzomisaki Lulu Pwanedo  
Obialo Chiazom Prisca  
Okafor Ifenyiwa Uzoamaka  
Olatinwo Folake Aminah  
Olawoye Folasade Itunuoluwa  
Omaye Mercy Ufedo  
Onyeobi Ogom Jane-Valere  
Siyanbola Aminah Oyenike  
Timothy Mary Monday  
Umemba Ugochi Lynda

***Class of Degree: 2<sup>nd</sup> Class (Lower Division)***

Adebiyi Funmilayo Bolatito  
Adewunmi Yetunde Mary  
Aina Olumuyiwa Oluwole  
Akinyuwa Clinton Babatunde  
Amuebie Ada Stephanie  
Anyene Jaluchi Nchedo  
Bright-Omoruyi Cynthia Isoken  
Ebhotemen Cyril  
Eboikpomwen Jones Osaze  
Eniolorunda Michael  
Gbujie Fortune Iruemu  
Hadome Ndid Rosemary  
Ibe Joy Onyerinma  
Ikeji Jane Nwabugwu  
Isoh Ajulu  
Kolawole Desmond Folorunsho  
Megwalu Mary Obianuju  
Nwosu Jennifer  
Obi Chioma Wendy  
Odjighoro Tega Joy  
Odunlami Charles  
Okechukwu Doris Chinyere  
Okwu Dearie Glory  
Omuta Onome Ajirioghene  
Osanyinbi Tola Moyosola

***Class of Degree: 3<sup>rd</sup> Class***

Bosah Nnamdi Gerald  
Oguchi Stephany  
Oyeleke Mayowa Olasunkanmi

**Department: Environmental Science**

***Class of Degree: 2<sup>nd</sup> Class (Upper Division)***

Adedeji Ayodele Ademola  
Akintunde Olarenwaju Olu

***Class of Degree: 2<sup>nd</sup> Class (Lower Division)***

Akanmu Akinola  
Alao Fatima  
Odunayo Inumidun Tolulope  
Ogunrinde Yewande  
Okojie Osaze

**Department: Chemical Science**

***Class of Degree: 2<sup>nd</sup> Class (Upper Division)***

Enotoriuwa Ramson  
Nwaulu Chima

***Class of Degree: 2<sup>nd</sup> Class (Lower Division)***

Davis Tonye Dumo  
Ekojikoko Ochuko John  
Ekwueme Iyke Johnson  
Emelogu Evelyn  
Ezeamaka Ifeanyi  
Ezeemo Ifeanyi  
Nwosu Nnamdi  
Ogbuefi Batholomew  
Oniovosa Odiri

**Department: Computer Science &  
Information Technology**

***Class of Degree: 1<sup>st</sup> Class Hons.***

Odi Anwuli Alexandra

***Class of Degree: 2<sup>nd</sup> Class (Upper Division)***

Agboola Aisha Faderera  
Aighobahi Anthony Efosa  
Aluko Babatunde Funsho  
Balogun Olatayo Halima  
Chinwuko Mcdel  
Iherue Nancy Nonyerem  
Maigari Tsenlat Elizabeth  
Ogbeide Aizeni Toritesju  
Ogedegbe Tina  
Okosun Jude  
Olarenwaju Adeola Yinka  
Omogbomeh Julian  
Sekoni Kehinde Ikeoluwa  
Umolu Ikechukwu Paul

***Class of Degree: 2<sup>nd</sup> Class (Lower Division)***

Abuah Francis  
Adebowale-Sheriff Atanda  
Adelaja Olusegun  
Adigwe Daniel  
Awote Babatunde  
Brambaifa Christoher  
Chuku Chimeka Melvin

Ejarpovi Kwesi Daniel  
Ejeke Tobechukwu  
Fidel-Anyanna Iremise  
Ibe Nzubechukwu Onyebuchi  
Idedia Pascal  
Ihejirika Victor  
Ikpa Henry Kelechi  
Imevbore Victor  
Jinadu Wuraola  
Kaura Joshua Reuben  
Kushimo Bolaji Faruk  
Lawson-Jack Splendor  
Nwokolo Kenneth  
Nwugo Martins  
Obot Ubong Obot  
Oferiofe Ofovwe Jude  
Ogar Amokeye Hatoma  
Okpan Sandra  
Umeize Tochukwu Michael  
Umo-Odiong Asuquo  
Usman Jamilu Yasin

***Class of Degree: 3<sup>rd</sup> Class***

Atolani Esther  
Beka Nathan Ebewo  
Gini Chigozie Peter  
Nweke Alloy Fred Chetta  
Osu Nwabudike

**Department: Agric-Economics &  
Extension**

***Class of Degree: 2<sup>nd</sup> Class Hons. (Lower  
Division)***

Aghawana Azubuike Abaja  
Benson Adetokunbo Musibau  
Dahiru Awaisu Abdullahi

**Supplementary Graduation List**

**College of Law**

***Class of Degree: 2<sup>nd</sup> Class (Upper Division)***

Oguji Robinson Ugochukwu

***Class of Degree: 2<sup>nd</sup> Class (Lower  
Division)***

Davou Dakwak  
Ekurume Nyenrovwo

Eyisi Gentle Emeka  
 Ezenwedeh Moses Chigozie  
 Ezenuba Stephen Ebere  
 Ikpeazu Mimi Ifeoma  
 Kester John Adejumo  
 Mekoma Chinye Angela  
 Nabena Kimikeyi Richard  
 Negbe Nebor Andrew  
 Ogudebe Francis Uchenna  
 Ojukwu Eze  
 Oyeneye Oluwatosin Malik  
 Soji George Teniola  
 Talabi Adekunle Suleiman  
 Ukaegbu Kingsley Ezechimere  
 Ukaegbu Rachel Okpueze  
 Ukueku Kevwe  
 Ungbuku Okpoundu

William-Ebi Sonia Funere  
 Inyang Blessing  
 Okolo-Obiajulu Ogechukwu  
 Lashman Anthonia Banke  
 Ojukwu Patience Ifeoma  
 Ogunsino Toluleye  
 Benson Adewale Oluyemisi  
 Udo Nsikak Young

**Department: Accounting**  
**Class of Degree: 2<sup>nd</sup> Class Hons. (Lower Division)**  
 Mbachu Obinna Ifeanye

### DEGREE ANALYSIS

COLLEGE/DEPT	1 <sup>ST</sup> CLASS	2 <sup>ND</sup> CLASS UPPER	2 <sup>ND</sup> CLASS LOWER	3 <sup>RD</sup> CLASS	TOTAL
<b>ARTS &amp; SOCIAL SCIENCES</b>					
i. African & Foreign Languages (French)	1	-	-	-	1
ii. Economics & Development Studies	2	16	32	1	51
iii. English	-	-	1	-	-
iv. Geography	-	-	2	-	2
v. International Relations	3	13	13	-	29
vi. Mass Communication	1	18	15	-	34
vii. Political Sc. & Public Admin	-	2	15	-	17
viii. Public Relations/Advertising	1	3	4	-	8
viii. Sociology & Anthropology	-	3	1	-	4
ix. Theatre Arts	1	-	1	-	2
<b>BUSINESS &amp; MGT STUDIES</b>					
i. Accounting	-	23	38	2	63
ii. Banking & Finance	-	2	9	-	11
iii. Business Administration	-	17	25	-	42
<b>ENGINEERING</b>					
i. Chemical	2	4	7	3	16
ii. Civil	-	1	3	2	6
iii. Computer	1	3	11	-	15
iv. Electrical/Electronics	1	11	18	1	31
v. Mechanical	-	4	6	-	10
vi. Petroleum Engineering	-	4	3	-	7
vii. Food Science & Technology	-	-	1	-	1



<b>HEALTH SCIENCES</b>					
i. Biochemistry	-	7	21	3	31
ii. Medicine	-				75
iii. Physiology	-	2	4	-	7
<b>LAW</b>	1	25	117	-	222
<b>NATURAL &amp; APPLIED SC.</b>					
i. Biological Sciences (Microbiology)	2	25	25	3	55
ii. Chemical Science (Industrial Chemistry)	-	2	9	-	11
iii. Computer Science & Info. Technology	1	14	28	5	48
iv. Environmental Science	-	2	5	-	7
vi. Agric-Economics & Extension	-	-	3	-	3
<b>Total</b>	<b>17</b>	<b>201</b>	<b>417</b>	<b>20</b>	<b>729</b>

**LIST OF GRADUATING STUDENTS –  
2009/2010**

**COLLEGE: Arts and Social Sciences  
Department: Economics & Development  
Studies**

**Class of Degree: 2<sup>nd</sup> Class (Upper  
Division)**

Anorue Lorah Ugochi  
Aromire Richard Hakeem  
Edema-Sillo Orighomisan  
Efegi Tamarauden Yefa Karen  
Ekeng Edung Nsa  
Enwo-Igariwey Idume Jack  
Ezudo Chukwunonso Humble  
Gukas Retan Irene  
Ijabiyi Kehinde  
Nwali Adanma  
Obienu Munachisom Chinedu  
Olawunmi Opeyemi Daniel  
Ossai Rosita Chimuanya  
Salami Ahmed Eniola

**Class of Degree: 2<sup>nd</sup> Class (Lower  
Division)**

Adeniji Olubunmi Maryam  
Agbachì Uju Stella  
Ahman Abdullahi Sule  
Akinbile Angel Titilayo  
Chimebele Obianuju Sandra  
Coker Omoyemi Arinola

Ihanuwaze Osemwonyemwen Helen

Isang Inemeno Udo

Iyayi Calista

Maje Kamal Abdullahi

Moses Moses Aniefiok

Nkwonta Stephinie Adaugo

Obot Nsidibe Ubong

Odeh Joy

Oduah Cynthia Nonye

Ohanka James Uchenna

Okonkwo Afoma Linda

Onietan Oluwatosin Divine

Onuoha Chinagorom

Osaji Onyinye Emmanuel

Otaru Joseph Olusegun

Otokiti Wuraola Feshi

Udegbulem Ukamaka Ivy

Umeh Ikenna David

Akinbode Oludolapo

Kanu Chijioke

Shonibare Ibrahim Adebola

**Department: English**

**Class of Degree: 2<sup>nd</sup> Class Hons. (Lower  
Division)**

Lajuwomi Olayemi Sarah

**Department: Geography & Regional  
Planning**

**Class of Degree: 2<sup>nd</sup> Class (Upper  
Division)**

Ayeni-Ijabiyi Bisola

**Class of Degree: 2<sup>nd</sup> Class (Lower Division)**

Arimah Oseloka  
Eruemulor Stanley

**Class of Degree: 3<sup>rd</sup> Class Hons.**

Nwoko Nbanefo Chinedu

**Department: International Relations & Strategic Studies**

**Class of Degree: 2<sup>nd</sup> Class (Upper Division)**

Allison Valentine Opuene  
Awah Blessing Eteakamba  
Erika-Okoye Amaka Laura  
Garnvwa Naomi Hadiza  
Gidado Salim  
Leleh Chinonyerem Oluchukwu  
Nwaire Sekina Chioma  
Obot Sifon Enefiok  
Odheisa Nneka Jayne  
Onuoha Ugo Elizabeth  
Sadiq Shukurat Omoyemi  
Ukut Edidiong Ebong

**Class of Degree: 2<sup>nd</sup> Class (Lower Division)**

Aghahowa Noghama`  
Akingbule Omotayo Oluwafemi  
Alfred-Ugbenho Tarifaghe  
Ayodele Oluwatosin  
Emili Ifeyinwanina  
Odia Marian Osakpolor  
Oduah Jennifer Awele  
Okafor Ogechukwu Maryrose

Rufai Adenike Rukayat  
Umeh Chukwunonso John  
Usman Ufedo Queen

**Class of Degree: 3<sup>rd</sup> Class Honours**

Akande Saheed Olajide

**Department: Mass Communication**

**Class of Degree: 1<sup>st</sup> Class**

Nnabuike Chukwunonso Chukwuagozie  
Okeke Olivia Ginika  
Umoru Hawat Atinuke

**Class of Degree: 2<sup>nd</sup> Class (Upper Division)**

Adebisi Anita Grace  
Adekunle Adenihun  
Adeyemi Omotola Bamidele  
Bamidele Adebanke Olamide  
Chiazor Miriam Ekwi  
Dada Akinwale Oluwatosi  
Dosunmu Oluwaseun Ashake  
Egonu Pamela Chizoba  
Egure Ayuva Bethany  
Esiekpe Emuobonuvie  
Evuarherhe Cynthia Eseoghene  
Izagbo Obiageli Laurene  
Kierian Nnamdie Udo  
Kuye Yemisi Debbie  
Mustapha Aisha  
Oloyede Mary Vivian  
Otuya Uche Sandra  
Samuel Ibitubowarigbem Idaerefa-A  
Ulam Jacqueline  
Urang Hephzibah Mijana  
Vincent Jaiyeola Anike

**Class of Degree: 2<sup>nd</sup> Class (Lower Division)**

Agori Elohor Judith  
Bonus Okpekume Wombu  
Edun Folarin Adeyinka  
Ejarpovi Edirin  
Enyong Uyaiabasi Mfon  
Obomeile Oshoke Bilikisu  
Aduwa Ogiegbaen Ehigie  
Okotie Eyituoyo Abraham  
Okpeahior Joseph Ogiemende  
Olaleye Samson  
Omo-Izirein Kofoworola  
Otuogha Austin Mathias  
Umar Nuru Abdulahi  
Uweh Rose Ekpo

**Department: Political Science & Public Administration**

**Class of Degree: 1<sup>st</sup> Class Hons.**

Adeseun Aderonke Taiwo  
Anyaegbu Ezekwesiri David

**Class of Degree: 2<sup>nd</sup> Class (Upper Division)**

Ihaza Folorunsho  
Ikegwuru Nyebuchiba Noble  
Imafidon Ehimwenma Michael  
Mbonu Chiemeka  
Okoye Godwin  
Omikunle Yewande Lizzy  
Osaigbovo Doris  
Oyaje Joan Oyigenem  
Ulom Tina Damilola

**Class of Degree: 2<sup>nd</sup> Class (Lower Division)**

Amogu Nnamdi Oke  
Dimgba Kalu  
Edim Ekong Edet  
Elegushi Falilat Oyetosin  
Erukeme Kinoy  
Igbinedion Enoma Emmanuel  
Lazarus Erepamo  
Musa Abari Adams  
Nkenchor Chika Onome  
Obareki Stanley  
Oduoye Babatunde Gabriel  
Okojie Prisca  
Onyegbunwa Moses Nnamdi

**Department of Sociology & Anthropology**

**Class of Degree: 2<sup>nd</sup> Class (Upper Division)**

Imoudu Monica Omokore  
Nnaji Chikadibia Catherine  
Ogunnaike Damilola  
Seghosime Hauwa Abdullah

**Class of Degree: 2<sup>nd</sup> Class (Lower Division)**

Abomeile Alasa  
Yau Ahed Suleman

**Department: Theatre Arts**

**Class of Degree: 2<sup>nd</sup> Class Hons. (Upper Division)**

Orieke Ebruphio Blessed

**Class of Degree: 2<sup>nd</sup> Class (Lower Division)**

Benson Uche Okafor  
Dick Chinyere

**COLLEGE: Business & Management Studies**

**Department: Accounting**

**Class of Degree: 1<sup>st</sup> Class Honours**

Atu Gina Oghogho

**Class of Degree: 2<sup>nd</sup> Class (Upper Division)**

Abujade Olawande Nana  
Akande Olufunke Kafayat  
Akinpelu Damilola Ayodele  
Aliyu Saudatu  
Atu Vivian Osahenoma  
Eheduru Ikenna Chukwuma  
Enegebe Omas Precious  
Ezennia Okwuchukwu Georges  
Iheanachor Adaeze Ogomegbunam  
Ijabiye Taiye Johnson  
Ikpeme Daniel Basse  
Jimoh Osigwe Jafaru  
Nwokoro Emmanuel  
Offodum Kenechi Kingsley  
Okafor Lilian Ogechi  
Onwe Kingsley Chikezie  
Ormormhila Emoshokheme Victoria  
Otse Anthony Momoh  
Raji Sadiq Ademola

**Class of Degree: 2<sup>nd</sup> Class (Lower Division)**

Adesote Adetoun Adeola  
Aisabor Yvonne

Balogun Owoola Olatomiwa  
Egede Richardson Nwakaegho  
Ikiriko Iyeregote  
Imorame Osweromo Valentina  
Irikefe Jude Urhukpe  
Kafiya Philip Ishaku  
Obatete Ogheneovo Russy  
Odia Patience Iziegbe  
Okougbo Isi Benedicta  
Olawuyi Oyenike Roseline  
Otunyo Chinedu Aminu  
Salihu Dahuwa Zaharadeen  
Spiff Ndubisi Israel  
Tobin Fabiawari Young  
Yingi Kemepade  
Zubair Tauheed

**Department: Banking & Finance**  
**Class of Degree: 2<sup>nd</sup> Class (Upper Division)**

Akhere-Ugbesia Omonigho  
Jimmy-Michael Emem

**Class of Degree: 2<sup>nd</sup> Class (Lower Division)**

Akhamie Ochuwa Princess  
Japhet Mwaniya Gajere

**Class of Degree: 3<sup>rd</sup> Class Honours**  
Ojei Alero Chiedu

**Department: Business Administration**  
**Class of Degree: 2<sup>nd</sup> Class (Upper Division)**

Adekanola Bisola Silifat  
Aitonje Obokhai Charles  
Akindunbi Oluwatosin  
Ale Oluwayemisi Esther  
Amanam Delight Uduak  
Atanda Sukurat Abisola  
Avishigh Edward  
Bolarinwa Adedayo Kudirat  
Esivbekpe Gloria Akpeme  
Famutimi Abiodun Abayomi  
Ijaluwoye Yetunde Tracy  
Nwamadi Chijioke Prince

Odikey Koosy  
Oni Adebisi Kafayat

**Class of Degree: 2<sup>nd</sup> Class (Lower Division)**

Afimoni Oghenerouna Solomon  
Andu Adedeji  
Anene Pinky Ogonna  
Anorue Chinedu  
Arabo Usman Abubakar  
Arenyeka Fred Oludewa  
Boye Gina  
Eghobamien Omoyewense Sophia  
Ehio Henry Chibita  
Ejumejowo Martins  
Eka Uduak Usen  
Emdin Morenike  
Emioma Christy Chibuzor  
Emofurieta Irorome  
German Osahenrumwen Agbon  
Ibe Chukwunonso Chibuiké  
Ibhe Iyangbe  
Idehen Osagie  
Igbinedion Igbinosa  
Jegede Temitope Shina  
Lawal Ayodele  
Lawal Opeyemi Rukayat  
Mbaeri Cyril Devante  
Muogbo Josiah Chike  
Odafen Faith Edeghonghon  
Ogbodo Udoka Allen  
Ogiemwonyi Osasu  
Okokon Michael Bassey  
Okonji Joseph  
Omisade Oluleke  
Onwualia Nanemeka  
Orji Somotochukwu  
Oterheri Lord

**COLLEGE: Engineering**  
**Department: Chemical Engineering**  
**Class of Degree: 2<sup>nd</sup> Class (Upper Division)**

Aderibigbe Ayodeji Oluwasegun  
Ekemam Stellar Amauche

**Class of Degree: 2<sup>nd</sup> Class (Lower Division)**

Ezeigbo Confidence Ozioma  
Jemegbe Weyinmi George  
Obi Uchechi Temisan  
Okeke Ngozi Blessing  
Ukah Brian Ukachukwu

**Class of Degree: 3<sup>rd</sup> Class**

Ekanim Unyime Michael

**Department: Civil Engineering**

**Class of Degree: 2<sup>nd</sup> Class (Upper Division)**

Enidom Emmanuel

**Class of Degree: 2<sup>nd</sup> Class (Lower Division)**

Akhionbare Osaretin Gabriel  
Sarumi Aderibigbe Bashir

**Department: Electrical/Electronics Engineering**

**Class of Degree: 2<sup>nd</sup> Class (Upper Division)**

Evbuomwan Kenneth  
Ojo Kehinde Oladapo  
Oladejo Jumoke Mojisola  
Osagie Franklin Iyobor  
Sekoni Taiwo Ifeoluwa  
Tasie Marshal Obinuchi

**Class of Degree: 2<sup>nd</sup> Class (Lower Division)**

Amazu Chukwudubem Onyekachukwu  
Etuk Ubong Solomon  
Ezemegwara Nzube Arinze  
Jimoh Rafiu Onimisi  
Joseph Jide Steven  
Menkiti Stephen Chukwuebuka  
Njoku Michael Chijindu  
Nwabunike Chukwuemeka  
Okurumeh Onome  
Olowu Oluwarotimi Kolawole

**Department: Computer Engineering**

**Class of Degree: 1<sup>st</sup> Class**

Okonye Kachikwu Benedicta  
Ulasi Benjamin Osora

**Class of Degree: 2<sup>nd</sup> Class (Upper Division)**

Ajose Taiwo Akinwale

**Class of Degree: 2<sup>nd</sup> Class (Lower Division)**

Imiruaye Odafe Alfred

**Department: Mechanical Engineering**

**Class of Degree: 1<sup>st</sup> Class Hons.**

Olufade Adesola Oluwasijibomi

**Class of Degree: 2<sup>nd</sup> Class (Upper Division)**

Afabor Eriesiri Eguonoroghene  
Ofonagoro Marty Chibuike  
Popoola Olusegun Kehinde

**Class of Degree: 2<sup>nd</sup> Class (Lower Division)**

Adekale Joseph Adebayo  
Anunam Hilary  
Coker Oluwagbenga Emmanuel  
Karibo Michel  
Obaika Stephen  
Okoko Ifeanyi Peter  
Tikpa Ebiepre Benedict

**Class of Degree: 3<sup>rd</sup> Class Hons.**

Akinyuwa Vincent Akinsanmi  
Anyaso Chukwueloka Onyema  
Eriyamremu Winston Oghenemarho  
Itepu Pullen Kennedy

**Department: Petroleum Engineering**

**Class of Degree: 2<sup>nd</sup> Class Hons. (Upper Division)**

Jimoh Oladipo Bankole  
Umejuru Victoria Akuchukwu

**Class of Degree: 2<sup>nd</sup> Class Hons. (Lower Division)**

Ekienabor Efe Marymagdalene

**COLLEGE: Health Sciences**

**Department: Biochemistry**

**Class of Degree: 2<sup>nd</sup> Class (Upper Division)**

Adefisoye Moshood Abiola

Agbonmwandolor Oghogho

Orji Ngozi Stella

Ukaonu Chibueze Benjamin

**Class of Degree: 2<sup>nd</sup> Class (Lower Division)**

Abah Victor Nnamdi

Abubakar Teslimat Efuah

Adarerhi Nicholas Avwersuoghene

Esinkumo Allen Williams

Etok Ekpenyong Okokon

Fasidi Oluwadolapo Taye

Inyinbor Charles

Ononuju Njideka

Osuamkpe Maudline Efai-Vie

Pedro Babatunde Ishola

**Class of Degree: 3<sup>rd</sup> Class Hons.**

Adetosoye Adedayo Adeotan

Ogunsuyi Olamilekan

**School of Clinical Medicine**

**Degree: Bachelor of Medicine and Bachelor of Surgery**

Adebayo Fisayo Grace

Adefalugo Busayo

Adekanmi Rukayat Adebimpe

Adeleye Aderonke Omolara

Adigun Adebowale Abbas

Adio Folashade Sekinat

Aganbi Uvie

Agu Chinelo Anuoluwapo

Agu Chukwuka Marcus

Aina Olujimi Olusola

Ajayi Ayotolu Olubisi

Akhere Kingsley

Akpan Ekemini Celestine

Alagbe Olusola Ayodele

Alale Bukola Rachel

Alale Toyin Iyabo

Alele Faith Osaretin

Amrasa Anthony Okehoghene

Andy Imaobong Eno

Anyamele Jane-Frances

Archibong Atim Okokon

Arhere Ejiroghene Pauline

Aria Enefo

Awofeko Eytayo Olusegun

Awolowo Abayomi

Azubuko-Udah Grace Onyemerekeya

Bada Temidayo Oluwaseyi

Bakare Sadiat Anita

Chialu Chijioke Doris

Chibuzo Nwakaku Cynthia

Doherty Victoria Kikelomo

Edeh Ifeoma Miriam

Edi Vivien Mokuu

Ejemighaye Victor Kogoro

Emenogu Darlington Ndubisi

Enebi Jummai Enore

Eremutha Theodora Aghorghor

Esieke Kamaro Louis

Essien Ifiok Ekemini

Essien Seinyenede Sunday

Evule Chinonye Lawson

Eze-Ajoku Ezinne Adaeze

Fasaanu Ayodeji Nelson

Fokoblab Augustine Arthur

Hassan Fahd

Idanwekhai Maureen Anikpe

Igbinomwanhia Osarodion Osa

Igwilo Ihuoma Adaeze

Igwilo Ugonnaya Ugochinyere

Ihenyen Isibhakhomen Anthonia

Ikedum Gerald-Curtis Kezie

Ikhifa-Unuane Ehinor

Ikwuni Rita Ifeanyichukwu

Iria Sandra Chika

Jobarteh Mansally Folorunso

Morakinyo Elizabeth Tomilola

Ndianefo Genevieve Chinyerendu

Nello-Piserchia Annette

Njoku Ebubechi Chinwe

Nkuche Chijindu  
Nmoye Ebere Patricia  
Nwaiwu Chidinma Chisaraokwu  
Odiachi Helen Isioma  
Ogundiran Opeayo Ogunleye  
Ogunlewe Ajoke Oluwadamilola  
Ogunrinde Tolulope Adeola  
Ojo Adebawale Olusegun  
Okafor Nnaemeka Chibuikwe  
Okekumata Isimenmen Tiwalola  
Oladogba Olumuyiwa Michael  
Olu-Ibukun Temitope Bolanle  
Omega-Njemnobi Chioma  
Onajobi Eniola Ayisat  
Onuoha Onyinyechi Choice  
Oruche Chinonso  
Osibogun Olatokunbo  
Otsenye Ogbene  
Otty Ngozi Ijeoma  
Owoeye Oladoyin Omolabake  
Owoi Justice Tamunomiebaka  
Samuel Imaobong  
Soyemi Adetoun Oluwasola  
Sulaimon Ifeoluwa Oluwatosin  
Tabowei Lilian Ebiye  
Ubabukoh Uchenna Chibueze  
Uzozie Adaeze Vivian  
Wosu Chimenum Wordu  
Yusuf Halima  
Ziworitin Christiana Albert

**Department: Nursing**  
**Degree: Bachelor of Science (Nursing)**  
**Class of Degree: 1<sup>st</sup> Class Hons.**  
Ogbebor Sarah Osamudiamen

**Class of Degree: 2<sup>nd</sup> Class Hons. (Upper Division)**

Aina Rachael Omolola  
Ekanem Jane Ndarake  
Ekundayo Roselyn Iyabo  
Oke Feyisayo Gloria  
Sulaiman Yetunde Ayomide

**Class of Degree: 2<sup>nd</sup> Class Hons. (Lower Division)**

Adedapo Adesola Bosede  
Adeyemi Olubunmi Mary  
Adubiaro Ibiyinka Ruth  
Ajisola Olayinka Caroline  
Ogunsan Ayomide Temitope  
Omorodion Sophie

**Department: Physiology**  
**Degree: Bachelor of Science (Physiology)**  
**Class of Degree: 2<sup>nd</sup> Class Hons. (Lower Division)**  
Alonge Oluwasegun Richard  
Osaigbovo Lovely

**COLLEGE: Law**  
**Class of Degree: 1<sup>st</sup> Class Hons.**  
Denkemefa Godfrey E. Ebikedoumene  
Nanakumoh Owen C. Abode  
Okeke Chika Edwin

**Class of Degree: 2<sup>nd</sup> Class (Upper Division)**  
Adebusoye Adetoyosi Oyinkansola  
Adefuye Joshua Afolabi  
Adeleke Obaloluwa Olufemi  
Aina Olutola Oyewole  
Ajao Temitope Tolulope  
Akinde Ayomide Oluwabusola  
Akinkurolere Oluwaseun Joy  
Amoussa Olawale Shakoor  
Atewologun O. Moromoyo  
Awojobi Falilat Adeola  
Bakare Bosede Alice  
Bamigbola Ayodeji Olatunji  
Bamisaye Oluwatoyin Oluwaseun  
Binlam Timya Patience  
Edorhe Omozefe Sandra  
Erhonsele Omonigho Ivie  
Haruna Ene Rita  
Lawani Oluwafunke Olanireti  
Nwangwu Anita Onyebuchi  
Obi-Adigwe Rhoda  
Ogbeleje Chineze Ada  
Ohwo Flora Ovonimo  
Ojo Taiwo Oladipo

Olaopa Opeyemi Foluke  
Ollor Obariakasemi Ekoate  
Onwuna Joy Anwulika  
Otisi Chidinma  
Parieso Bushirat Titilope  
Salawu Titilope Olubunmi  
Samuel Sarah Oluwatobi  
Williams Esther Karina

**Class of Degree: 2<sup>nd</sup> Class (Lower Division)**

Abiodun Temitope Chelsea  
Achebe Shantell Amaka  
Adebanjo Adetunji Babafunke  
Adebiyi Anuoluwapo Adekemi  
Ademujimi Oluwaseyi Richards  
Adeniyi Bolaji Olusola  
Adesina Adeola Marian  
Adetunji Adedunmola Adetola  
Adolor Moses Osereme  
Aduroja Olumuyiwa Olugbenga  
Agidigbi Confidence Osayuki  
Agwi Ehimare Emmanuel  
Ahmed Nimatallahi Talatu  
Akaya Iwanger Ifeoma  
Akingun-Roberts Abisola  
Akinlabi Olapeju Elizabeth  
Akinloye Olusegun Micheal  
Akinyemi Abisola Olayinka  
Akomah Pearl ihedinma  
Alale Abiodun Ajoke  
Alobi Oba Eko  
Anni Izezeagbo Dorlin  
Arehia Monica  
Arimah Ezinma  
Atori Ufuoma Jennifer  
Awudu Ebiere Ebisintei  
Boufini Eniye Edwina  
Chijioke Jane Ogochukwu  
Chikezie Eze Emphraim  
Chukwu Augustina Francis  
Clement Jennifer Ulome  
Dada Jaiyeola Adewale  
Dawodu Adaihuoma Atinuke  
Diala Aniel Kelechi  
Ebigbo Ijeoma Maris

Egbetamah Ovie Collins  
Ejidike Donatus Kenechi  
Eka Utibe Usen  
Ekeng Henrietta Nsa  
Essienubo Enobong  
Evbodi Oghovereh  
Ezeanochie Jerry  
Fadun Akeem Akindele  
Falade Tayelolu Adebola  
Fashola Ayoade  
Fawehinmi Yusuf Oladele  
Fawole Oluwakemi Olajumoke  
Giwa Saidat Abiodun  
Grant Toritseju Stella  
Idakwo Ajumbi Ene  
Idakwo Fatima Igwutepa  
Igbalaye Abiola Kafayat  
Iheagwam Charity Chinenye  
Ijachi Elizabeth Eka  
Ikomi Omayeli Isiuwa  
Isoh Awele Ogugua  
Jacobs Oluwatosin Christianah  
Jobarteh Sibi Temitope  
Kachikwu Chekwube Oluwatosin  
Kazeem Aisha Aderonke  
Kuteyi Kazeem Oyeyinka  
Ladega Yewande Ololade  
Lan Susan Adaeze  
Layonu Iretioluwa Abosede  
Machado Francisca Funke  
Manager Fun-Ebi  
Momoh Sadetu  
Mukhtar Safiya Muhammed  
Musa Aisha Oyindamola  
Nwaiwu Chukwubuikem Nnamdi  
Nwodika Raphael Chukwudi  
Obareh Ejiro  
Obule Elohor Quincy  
Ofomola Oghenovo Paul  
Oguadinma Obieze Kingsley  
Oguntimehin Kemi Titilayo  
Okafor Henry Izuchukwu  
Okafor Obianuju Uchechukwu  
Okoh Uwa Samson  
Okutoro Abimbola Omonike  
Olayi Judith Alexandra



Olorife Ureshemi  
Olorisade Olayinka Oluwatimilehin  
Oluwateru Damilola Olusola  
Omaruaye Oghenetega  
Omoefe-Okoro Elo-Oghene  
Onovo Adaobi Gift  
Onwuameze Onyebuchi Ivy  
Onyekwe Sam Chinwe  
Oshie Abang Cecilia  
Otunla Oluwaseun Mary  
Oyenyin Oladiwura Oladayo  
Pippa Emmanuel Oghenero  
Pippa Ogheneochuko Ephraim  
Rapu Anthonia Tobechukwu  
Roberts Henry Oluwaseun  
Sadiq-Adamu Shamsiya  
Samuel Alaere  
Sonupe Olumide Kauyinsola  
Tayo Olutimilehin Mayowa  
Uzuegbu Jayne Nelson  
Wurim Sarah Bitrus

**COLLEGE: Natural and Applied Sciences**

**Department: Biological Sciences (Microbiology)**

**Class of Degree: 2<sup>nd</sup> Class (Upper Division)**

Awuje Vincovin  
Ejike Ifeyinwa Ijeoma  
Emokpaire Ohi Festus  
Jaiyeola Etana Joy  
Okonkwo Ginikanwa Chioma

**Class of Degree: 2<sup>nd</sup> Class (Lower Division)**

Adeyemo Oluwadamilola Rhoda  
Aregbesola Abiodun Abraham  
Bukar Aliya Abdullahi  
Clark Tamara  
Ihenacho Olachi  
Ikhidero Sarah Aimalohi  
Irabor Christian Ehizokhale  
Oshinowo Gbemisola Mary  
Uzochukwu Adaora

**Class of Degree: 3<sup>rd</sup> Class**

Oreke Osima Osame

**Department: Environmental Science**

**Class of Degree: 2<sup>nd</sup> Class (Upper Division)**

Sillo Anire Opeyemi

**Class of Degree: 2<sup>nd</sup> Class (Lower Division)**

Obayuwana Osariemen Sharon

**Department: Chemical Science**

**Degree: Bachelor of Science (Industrial Chemistry)**

**Class of Degree: 2<sup>nd</sup> Class (Upper Division)**

Talabi Ibidapo Oluwaseun

**Class of Degree: 2<sup>nd</sup> Class (Lower Division)**

Okenwa Chidiebere

**Department: Computer Science & Information Technology**

**Class of Degree: 1<sup>st</sup> Class**

Odunewu Temitope Adeola  
Okurumeh Oluwatoyin Aghogho

**Class of Degree: 2<sup>nd</sup> Class (Upper Division)**

Akeju-Folasade Morounfolu  
Amadi-Emina Nkiru  
Aminu Kudirat Olushola  
Dike Ann Ibitein  
Edewor Oghenero Michael  
Efeizomor Oshiegbu Ogochukwu  
Ekweozoh Cheta Franklin  
Emoruwa Adewumi  
Maduka Olisaebuka Anene  
Naiyeju Imole-Ayo Hannah  
Okeke Nkechi  
Okenwa Sandra Ijeoma  
Opara Charles Chukwuemeka  
Sadiq Akeem Bankole

**Class of Degree: 2<sup>nd</sup> Class (Lower Division)**

Abolurin Oluwayemisi Kemisola  
Adeniran Tunde  
Adenugba Temitope Adewale  
Agburum James Daddy  
Akan Samuel  
Akande Ademola  
Amobi Chidera Ugochukwu  
Apata Lanre Olusegun  
Ariawhorai Efeturi  
Atanda Kofoworola Abimbola Azeezat  
Bashir Nuruddeen Muhammad  
Efeurhie Ochuko Tessy  
Ekefre Okpongette Nse  
Enigbokan Moyinoluwalogo Adesegun  
Esho Bamidele Onimisi  
Gamble Akaninyene  
Hussain Yusuf Dayar  
Igiekhume Friday  
Ikalamo Emmanuel Bomo  
Lawuyi Laoye Rapheal  
Madu Tobeckukwu  
Mohammed Umar  
Najomoh Sophia  
Obi Princess Chinyere Stella  
Obichukwu Chukwualuka  
Odejimi Elson Tolu  
Okezie Nnamdi Albert  
Okolie Obed Uchechukwu  
Okonji Uchechukwuka  
Oladipo Bolaji Bolarinwa  
Olumati Stella  
Oruche Emeka  
Uwatse Toritseju  
Uyenne Ifeanyi Davis

**Class of Degree: 3<sup>rd</sup> Class**

Bakare Adeyemo Akeem  
Kragha Paul Orume  
Okunrobo Eghosa Thomas  
Paul Ehigie Paul  
Yingi Tamarakro

**Department: Agric-Economics & Extension**

**Degree: Bachelor of Agric. (Economics & Extension)**

**Class of Degree: 1<sup>st</sup> Class Hons.**

Oyedokun Kola Oyewale

**Class of Degree: 2<sup>nd</sup> Class Hons. (Upper Division)**

Popoola Oludayo Taiwo

**Class of Degree: 2<sup>nd</sup> Class Hons. (Lower Division)**

Ifeakandu Amalachukwu Ezinne

**SCHOOL OF POSTGRADUATE STUDIES**

**AND RESEARCH**

**Department: Business Administration**

**Degree: Ph.D (Business Administration)**

Mande Samaila

**Class of Degree: M.Sc. (Business Administration)**

Atu Omimi-Ejoor Osaretin Kingsley

Eshegberi Oha Anthony

Nwachukwu Uloma Chika

**Department: Accounting**

**Degree: Ph.D (Accounting)**

Jafaru Jimoh

**Department: Banking and Finance**

**Degree: Ph.D (Banking and Finance)**

Agbada Andrew Omosioni

Ollor Helen Yorowa

**Department: Sociology and Anthropology**

**Degree: Ph.D (Sociology)**  
Ebighbo Nnaemeka Christopher  
Ibobor Sunday Ofili

**Degree: M.Sc (Sociology)**  
Bello Eugene Osasumwen  
Emeka-Okereke Aniefiok  
Igbinsosa Irene

**Department: Microbiology**  
**Degree: M.Sc. (Microbiology)**  
Asogwa Ifeoma Eucharia

**Department: Political Science**  
**Degree: M.Sc. (Political Science)**  
Ibe John-Vianney Chidi  
Oaikhena Igbelokoto Marvellous

**Degree: PGD (Political Science)**  
Agba Sunday

**Department: Natural and Applied Science**

**Degree: M.Sc.**  
Asogwa Ifeoma Eucharia  
Olley Mitsan  
Ajumobi Kunle Olaere  
Owolagba Gabriel Kayode  
Malagu David Uyabemen  
Ogueri Ikechukwu  
Ewenighi Obianiju Chinwe  
Adebayo Adeola Oladunmi  
Ileoma Emmanuel Olusegun  
Mbibi Friday Nnamdi  
Adebiyi Stephen Omotayo  
Ojedapo Olusola Victor  
Ibang Bassey Ibiang Ikona  
Fadeyi Jacob Adeniyi  
Adenuga Olaitan Jacob

#### DEGREE ANALYSIS

COLLEGE/DEPT	1 <sup>ST</sup> CLAS S	2 <sup>ND</sup> CLASS UPPER	2 <sup>ND</sup> CLASS LOWER	3 <sup>RD</sup> CLASS	TOTAL
<b>ARTS &amp; SOCIAL SCIENCES</b>					
i. African & Foreign Languages (French)	-	14	24	3	41
ii. Economics & Development Studies	-	-	1	-	1
iii. English	-	2	2	1	4
iv. Geography & Regional Planning	-	12	11	1	24
v. International Relations	3	21	14	-	38
vi. Mass Communication	2	9	13	-	24
vii. Political Science & Public Admin.	-	4	2	-	4
viii. Public Relations/Advertising	-	1	2	-	3
ix. Sociology & Anthropology	-				
x. Theatre Arts					
<b>BUSINESS &amp; MGT STUDIES</b>					
i. Accounting	1	19	18	-	38
ii. Banking & Finance	-	2	2	1	5
iii. Business Administration	-	14	33	-	47
<b>ENGINEERING</b>					
i. Chemical	-	2	5	1	8
ii. Civil	-	1	2	-	3
iii. Computer	1	1	1		3

iv. Electrical/Electronics	-	6	10	-	16
v. Mechanical	1	3	7	4	15
vi. Petroleum		2	1		3
vii. Food Science & Technology					
<b>HEALTH SCIENCES</b>					
i. Biochemistry	-	4	10	2	16
ii. Medicine (MBBS)					89
iii. Nursing	1	5	6		12
iv. Physiology	-	-	2		2
<b>LAW</b>	3	31	104	-	138
<b>NATURAL &amp; APPLIED SCIENCES</b>					
i. Biological Sciences (Microbiology)	-	5	9	1	15
ii. Chemical Sc. (Industrial Chemistry)		1	1	-	2
iii. Computer Science & Info. Tech.	2	13	34	5	54
iv. Environmental Science	1	1	1	1	2
v. Agric-Economics & Extension		1	1		2
<b>Postgraduate Studies – Doctorate</b>					3
<b>Masters</b>					28
<b>Grand Total</b>	<b>14</b>	<b>173</b>	<b>316</b>	<b>19</b>	<b>645</b>

**LIST OF GRADUATING STUDENTS -  
2010/2011**

**DOCTORATE MASTERS' AND POSTGRADUATE DIPLOMA**

<b>NAMES</b>	<b>DEGREE</b>	<b>DISCIPLINE</b>
ADEGHE, Igbinosa Raphael	Ph.D.	Banking & Finance
MGBAEGBU, Damian Graham	Ph.D.	Business Administration
ABOHI, AMOS Aikhena	M.Sc.	Accounting
AGHATOR, Gaskin Efe	M.Sc.	Accounting
AGWEDA, Fancy Ekaniyere	M.Sc.	Accounting
AIKHUELE, Usi Paul	M.Sc.	Accounting
ALI-MOMOH, Betty Oluwayemisi	M.Sc.	Accounting
ALIU, Momodu Mohammed	M.Sc.	Accounting
ASEMOTA, Omoruyi Francis	M.Sc.	Accounting
ATU, Elohor Rachael	M.Sc.	Accounting
ATU, Omimi-Ejoor O. Kingsley	M.Sc.	Accounting
AWILI, Ozor Christopher	M.Sc.	Accounting
EDIAE, Aghariagbonse Solomon	M.Sc.	Accounting
EHIMI, Ojemen Celestina	M.Sc.	Accounting
EHIOGHIREN, Efe Efosa	M.Sc.	Accounting
EHIOROBO, Felix	M.Sc.	Accounting
EJUVWIEKOKO, E. Evi	M.Sc.	Accounting
EKUNDAYO, Olugbenga Uke	M.Sc.	Accounting

ESEKHILE, Emmanuel Ehireme	M.Sc.	Accounting
EZEH, Philips Uchechukwu	M.Sc.	Accounting
IHIMEKPHEN, Aigbe Friday	M.Sc.	Accounting
ISABU, Peter	M.Sc.	Accounting
ITOYA, Eimionowane Victor	M.Sc.	Accounting
IZOMOH, Oteheri Solomon	M.Sc.	Accounting
JOSIAH, Mary (Mrs.)	M.Sc.	Accounting
MOMOH, Abdul Razak Awulimi	M.Sc.	Accounting
MOMOH, Odion	M.Sc.	Accounting
OBOZEKHAI, Monday	M.Sc.	Accounting
ODIA, Honesty Amenaghawon	M.Sc.	Accounting
ODION, Oziegbe Abure	M.Sc.	Accounting
OGBEIFUN, Isaac Esezobor	M.Sc.	Accounting
OGUNGBEMI, Babajide Charles	M.Sc.	Accounting
OGUNKUADE, Zaccheus	M.Sc.	Accounting
OHENHEN, Evbuomwan Pius	M.Sc.	Accounting
OHIOKHA, Godwin	M.Sc.	Accounting
OKI, Doris	M.Sc.	Accounting
OKOLIE, Felix Chinedu	M.Sc.	Accounting
OKOYE, Arinze Francis	M.Sc.	Accounting
OMOLU, Abel Koghene	M.Sc.	Accounting
ONOFUA, Ehidiamen Bernard	M.Sc.	Accounting
OSENI, Abubakar Idris	M.Sc.	Accounting
OVBIAGELE, Daniel	M.Sc.	Accounting
OZELE, Edojor Clement	M.Sc.	Accounting
UGIAGBE, Osamede	M.Sc.	Accounting
UGIAGBE, Owen	M.Sc.	Accounting
ADENIRAN, Olubunmi Christiana	PGD	Accounting
ALIDUNKWU, John Ndidi	PGD	Accounting
BOSUN-FAKUNLE, Yemisi Funmilayo	PGD.	Accounting
EGBUEZE, Lawrence Elo	PGD	Accounting
EMUH, Johnson Othuke	PGD	Accounting
IKHARO, Christopher Orhue	PGD	Accounting
ODOGUN, Sunday Ogoroh	PGD	Accounting
AIKHUEMENLO, Pius	M.Sc.	Business Administration
AKHATOR, Peter A.	M.Sc.	Business Administration
AKHIMIEN, Emmanuel	M.Sc.	Business Administration
BIGILA, David A.	M.Sc.	Business Administration
DURU-IGBONEKWU, Chidi	M.Sc.	Business Administration
EDORHE, Felix	M.Sc.	Business Administration
EHIGIAMUSOE, Emmanuel	M.Sc.	Business Administration
EMECHETA, O. Emmanuel	M.Sc.	Business Administration
FADEJIN, J. Taiwo	M.Sc.	Business Administration
GBOROYE, F. Olajide	M.Sc.	Business Administration
IDEHEN, Joy Pearl	M.Sc.	Business Administration

IGBINIGIE, O. Osaheni	M.Sc.	Business Administration
IGHALO, Monday	M.Sc.	Business Administration
IMEOKPARA, B.E.	M.Sc.	Business Administration
ISICHEI, O. Stephen	M.Sc.	Business Administration
IVONGBE, Matthew I.	M.Sc.	Business Administration
JIMOH, Oye Mudashiru	M.Sc.	Business Administration
MOMOH, Musa A.	M.Sc.	Business Administration
OFILI, Benedict E.	M.Sc.	Business Administration
OGBEIFUN, Rachael Osasere	M.Sc.	Business Administration
OGBETA, Chris Dayo	M.Sc.	Business Administration
OKHUELEIGBE, Philip	M.Sc.	Business Administration
OMOH, I. Francis	M.Sc.	Business Administration
ORJI, Marcus Garvey	M.Sc.	Business Administration
SULE, Veronica Uzoma	M.Sc.	Business Administration
AIHIE, Joseph	Ph.D.	Pol. Science/Pub. Admin
OLUFEMI, O. Olufunmilade	Ph.D.	Pol. Science/Pub. Admin
EKONG, Utibe Basey	M.Sc.	Pol. Science/Pub. Admin
GALLEN, Kolokwe Maliza	M.Sc.	Pol. Science/Pub. Admin
AKINWALE, Edward Abayomi	Ph.D.	Microbiology (Medical)
ABDULRAHEEM L.N.	M.Sc.	Microbiology (Medical)
ABDULRHEEM, Lateef Dolapo	M.Sc.	Microbiology (Medical)
ABRIBA, Simon-Peter	M.Sc.	Microbiology (Medical)
ADEBOYE, Olubunmi Moses	M.Sc.	Microbiology (Medical)
ADEGBITE, Adetoun	M.Sc.	Microbiology (Medical)
ADESINA, Opeyemi	M.Sc.	Microbiology (Medical)
ADESOJI, Adeola	M.Sc.	Microbiology (Medical)
ADEWALE. Adeyinka	M.Sc.	Microbiology (Medical)
ADEYEMI, Adebayo	M.Sc.	Microbiology (Medical)
AIRHOMWANBOR, Kingsley	M.Sc.	Microbiology (Medical)
AJIBOLA, J. Victor	M.Sc.	Microbiology (Medical)
AKINOLA, Adegboyega	M.Sc.	Microbiology (Medical)
AKINOLA, Ajibola Sikiru	M.Sc.	Microbiology (Medical)
AKO, Mary Asabe	M.Sc.	Microbiology (Medical)
AKOBI, Adeyemi	M.Sc.	Microbiology (Medical)
AKPAN, Solomon Duke	M.Sc.	Microbiology (Medical)
ALADENIKA, Seto Tunrayo	M.Sc.	Microbiology (Medical)
ALIYU, Faufu Alabi	M.Sc.	Microbiology (Medical)
ANUNIBE, Joshua	M.Sc.	Microbiology (Medical)
AROH, Priascilla	M.Sc.	Microbiology (Medical)
ATURAKA, Olusegun	M.Sc.	Microbiology (Medical)
AYODEJI, Oyeleke, Ayodeji	M.Sc.	Microbiology (Medical)
BIGILA, Alfred	M.Sc.	Microbiology (Medical)
BIVAN, M. Ayoba	M.Sc.	Microbiology (Medical)
BONNIE, Rachael	M.Sc.	Microbiology (Medical)

BUKAR, Alhaji	M.Sc.	Microbiology (Medical)
DOZIE-NWACHUKWU, Stella	M.Sc.	Microbiology (Medical)
EBIKADE, Adesuwa Edith	M.Sc.	Microbiology (Medical)
EGBUJO, Ejike C.	M.Sc.	Microbiology (Medical)
EHIAGHE, Alfred	M.Sc.	Microbiology (Medical)
EKHARAGBON, Imuentiyan	M.Sc.	Microbiology (Medical)
ERAH, Augustina	M.Sc.	Microbiology (Medical)
EZE, Glory Obiageli	M.Sc.	Microbiology (Medical)
EZE, Jonathan	M.Sc.	Microbiology (Medical)
FAGBUYI, Sule	M.Sc.	Microbiology (Medical)
FAMUYIWA, Christiana Olufolake	M.Sc.	Microbiology (Medical)
FATUROTI, Oluseyi	M.Sc.	Microbiology (Medical)
FREDRICK, Christy Chinyere	M.Sc.	Microbiology (Medical)
IBIKUNLE, Margaret Olufemi	M.Sc.	Microbiology (Medical)
IGBANONGO, Michael Terfa	M.Sc.	Microbiology (Medical)
IHEANACHO, Charity	M.Sc.	Microbiology (Medical)
IKENAZOR, Herbert	M.Sc.	Microbiology (Medical)
ILEGBADION, Ikhide	M.Sc.	Microbiology (Medical)
ISAMOT, Idayat	M.Sc.	Microbiology (Medical)
ITUA, Faith K.	M.Sc.	Microbiology (Medical)
IYIOLA, Sina	M.Sc.	Microbiology (Medical)
IZE.IYAMU, Justus Aiwansosa	M.Sc.	Microbiology (Medical)
JOSHUA, Ali Janet	M.Sc.	Microbiology (Medical)
KOLAWOLE, Lydia Iyabo	M.Sc.	Microbiology (Medical)
KOSAMAT, Adebisi	M.Sc.	Microbiology (Medical)
LADAN. Joshua	M.Sc.	Microbiology (Medical)
LANUISA, Yewande Oluyombo	M.Sc.	Microbiology (Medical)
LAWAL, Olaide	M.Sc.	Microbiology (Medical)
LAWAL, Sikiru Adetona	M.Sc.	Microbiology (Medical)
MADUKWE, Herold Afam	M.Sc.	Microbiology (Medical)
MADUKWE, Jonathan	M.Sc.	Microbiology (Medical)
NEBO, Ogochukwu	M.Sc.	Microbiology (Medical)
NGUEPI, Priscilla	M.Sc.	Microbiology (Medical)
ODEDIRE, Olugbenga	M.Sc.	Microbiology (Medical)
ODERINDE, Kola Stephen	M.Sc.	Microbiology (Medical)
ODEYEMI, Ayodele	M.Sc.	Microbiology (Medical)
ODEYEMI, Oluseyi	M.Sc.	Microbiology (Medical)
ODOR, Roseline Oke-Oghene	M.Sc.	Microbiology (Medical)
OGBONNA, Aloysius C.O.	M.Sc.	Microbiology (Medical)
OGEDENGBE, Sunday Oladokun	M.Sc.	Microbiology (Medical)
OGIOGWA, Joseph	M.Sc.	Microbiology (Medical)
OJO, Matthew	M.Sc.	Microbiology (Medical)
OJO, Philip Rotimi	M.Sc.	Microbiology (Medical)
OJUADE, Yetunde	M.Sc.	Microbiology (Medical)
OKE, Adewale Adegboyega	M.Sc.	Microbiology (Medical)

OKE, Moses Ojo	M.Sc.	Microbiology (Medical)
OKI, Olayinka Catherine	M.Sc.	Microbiology (Medical)
OKONKWO, Godfrey	M.Sc.	Microbiology (Medical)
OLAYANJU, Ayiodeji Olusola	M.Sc.	Microbiology (Medical)
OLOGUN, Samuel Olumuyiwa	M.Sc.	Microbiology (Medical)
OMOLADE, Olabowale	M.Sc.	Microbiology (Medical)
OMOSIGHO, Pius	M.Sc.	Microbiology (Medical)
OYEFULE, Babatunde	M.Sc.	Microbiology (Medical)
OZIEGBE, Esther Ilebata	M.Sc.	Microbiology (Medical)
POPOOLA, Oludele Ezekiel	M.Sc.	Microbiology (Medical)
SHOLESI, Abiola Adeola	M.Sc.	Microbiology (Medical)
SONEYE, Olukemi Omowunmi	M.Sc.	Microbiology (Medical)
TUBI, Abiola Olajumoke	M.Sc.	Microbiology (Medical)
UWAIFO, Nicholas	M.Sc.	Microbiology (Medical)
OSEH, Benjamin Idowu	PGD	Industrial Chemistry
SOLOLA, Saheed Abiodun	PGD	Industrial Chemistry
ABILO, Emmanuel Ibie	M.Sc.	Accounting
ADAMS, Osabuohien	M.Sc.	Accounting
ADELEKUN, Omowumi Helen (Miss)	M.Sc.	Accounting
ADENIRAN, Olubunmi Christianah (Mrs.)	M.Sc.	Accounting
ADETULA, Samuel Lanrewaju	M.Sc.	Accounting
AFOLABI, Samiat Oluwatoyin (Mrs.)	M.Sc.	Accounting
AGBOMAH, Dennis James	M.Sc.	Accounting
AIGBEKAEN, Princely Esosa	M.Sc.	Accounting
AKPOVETA, Benson Ejiro	M.Sc.	Accounting
ALIDUNKWU, John Ndidi	M.Sc.	Accounting
AMARHAVWIE, Edafe Solomon	M.Sc.	Accounting
ASIA, Wisdom Sunday	M.Sc.	Accounting
BOSUN-FAKUNLE, Yemisi Funmilayo (Mrs.)	M.Sc.	Accounting
BRAIMAH, Amanosi Zika	M.Sc.	Accounting
DABOR, Alexander	M.Sc.	Accounting
DIGBAN, Tonia Isi (Mrs.)	M.Sc.	Accounting
EDOGIAWERIE, Monday Nosa	M.Sc.	Accounting
EDOGIAWERIE, Theo Lateef	M.Sc.	Accounting
EGBUEZE, Lawrence Elo	M.Sc.	Accounting
EIKHOMUN, Daniel Ehi	M.Sc.	Accounting
EMUH, Johnson Othuke	M.Sc.	Accounting
ENOBAXHARE, Kingsley Osakpamwan	M.Sc.	Accounting
GBADEGA, Samuel Adebawale	M.Sc.	Accounting
IGBINWEKA, Uyi Augustine	M.Sc.	Accounting
IKHARO, Christopher Orhe	M.Sc.	Accounting
ILELEJI, Ariakpoyeri Philip	M.Sc.	Accounting
IMOHI, Victor Eheledu	M.Sc.	Accounting
ISAH, Mohammed	M.Sc.	Accounting
ISOSO, Monday Chukwugeku	M.Sc.	Accounting



ITIVEH, Eniworo Franklin	M.Sc.	Accounting
IZEVBEKHAI, Monday Olade	M.Sc.	Accounting
LEHTENO, Chofo Innocent	M.Sc.	Accounting
MOMODU, Waseela Oshone (Mrs.)	M.Sc.	Accounting
MOMOH, Tila Shehu	M.Sc.	Accounting
ODOGUN, Sunday Ogoroh	M.Sc.	Accounting
OGBEIWI, Osalumense Kenneth	M.Sc.	Accounting
OHIAFI, Idowu Henry	M.Sc.	Accounting
OKEKE, Uzezi Mary (Mrs.)	M.Sc.	Accounting
OKOJIE, Sonia Osariemen (Mrs.)	M.Sc.	Accounting
OKOUGHENU, Sunday Azeita	M.Sc.	Accounting
ORHUE, Maureen Princess (Mrs.)	M.Sc.	Accounting
OSEROGHO, Ikhenade Alexander	M.Sc.	Accounting
SANUSI, Beshiru	M.Sc.	Accounting
ADEBAYO, Kusumi Aafenemhe (Mrs.)	M.Sc.	Accounting
ADENIYI, Betty Iyabo (Mrs.)	M.Sc.	Accounting

**COLLEGE: Arts & Social Sciences**

**Department: African and Foreign**

**Languages (French)**

*Class of Degree: Bachelor of Arts (French)*

*2<sup>nd</sup> Class Hons. (Upper Division)*

Agwu Mary Ukpong

**Department: Economics & Development Studies**

*Class of Degree: 1<sup>st</sup> Class Hons.*

Aluko Folake Tosin

Ikesanmi Adetola Esther

Musa Jonathan

Nnolim Chinemelum

*Class of Degree: 2<sup>nd</sup> Class (Upper Division)*

Adisa Afolarin Omololu

Egbo-Egbo Samuel Uduakobong

Ekhator Esosa Belinda

Eleh Chukwuma Ikenna

Ihuoma Raymond Chukwuemeka

Ihuoma Stanley Chinonso

Maduiké Kingsley

Nnaka Chukwuebuka Gerald

Okparaku Anthony Chukwuemeka

Owobu Gloria Omaeko

Raji Abimbola

Dike Victorial Ihuoma

Ikpe Seno Thonpson

Ken-Iyobhe Ikuenobe

Lawal Otasowie

*Class of Degree: 2<sup>nd</sup> Class (Lower Division)*

Ajewole Kehinde Kola

Ikong Eme Michael

Odunayo Babajide Olawale

Ahmed Tahir Dhrahim

Ezeanya Judith

Ezechukwu Onyeka Franklyn

Johson Ololaole Ebundunua

Lawal Rahman Kayode

Mohammed Naibi Yahayn

Njoku Chukwuemaka

Nwali Nkonye Peter

Nweke Emmanuel

Okafor Silver

Olaitan Damilola

Olunati Gift

Onu Dikauna

Victor Akpan Paul

**Department: English**

*Class of Degree: 2<sup>nd</sup> Class (Lower Division)*

Agoni Akhere Tracy

**Department: Geography & Regional Planning**

***Class of Degree: 2<sup>nd</sup> Class (Upper Division)***

Arenyeka Abigail Ejuaye  
Denton Ayo

**Department: International Relations & Strategic Studies**

***Class of Degree: 1<sup>st</sup> Class Hons.***

Eletu Ajarat K.ofoworola  
Okerefor Jennifer  
Oki Maureen E.  
Olapade Omolola J.  
Ukpebor Itohan

***Class of Degree: 2<sup>nd</sup> Class (Upper Division)***

Awoyemi Opeyemi C.  
Ogri Lilian  
Okorie Inimbuk  
Orubu Eloko  
Salako Adewumi  
Alonge Omomyi  
Phido Tobore  
Ubaka Nkechi  
Aniakor Chukwuabuka  
Dakpokpo Hillary  
Duru Antgusta  
Iba Unyime  
Okeibuno Jemimah  
Timibra Apreala  
Ugiomo Igiehon  
Duru Blessing  
Adebiyi Babatunde

***Class of Degree: 3<sup>rd</sup> Class***

Okofu Emeka

**Department: Mass Communication**

***Class of Degree: 2<sup>nd</sup> Class (Upper Division)***

Aigbe Lily  
Ajisafe Hawa  
Aremu Ranti  
Leha Amma  
Nwosu Chinenye  
Offor Vivian  
Ogbeyi Patience

Ogoke Micheal  
Osaroeji Rose  
Eweka Panzy  
Lekan Patience  
Udo Emmabourg  
George Abiodun  
Ojogri Ejiro  
Mustapha Jemila  
Edion Joyce  
Amobi Esther  
Akinwale Ronke  
Muogbo Oluchukwu  
Enebeli Valery  
Ogbeide Dena

**Department: Mass Communication**

***Class of Degree: 2<sup>nd</sup> Class (Upper Division)***

Ekanem, Okokon

***Class of Degree: 2<sup>nd</sup> Class (Lower Division)***

Kingsley Ijeoma  
Willie Gloria  
Daniel Jordana  
Emoghene Ekheoghene  
Abraham Emmanuella  
Ipalio-Harry Ilami  
Wobo Queen  
Adio Abdulafeez  
Akaya Alexander  
Smooth Abalare  
Okosodo Ehiabhi Clement

**Department: Political Science & Public Administration**

***Class of Degree: 2<sup>nd</sup> Class (Upper Division)***

Pondi Tare Godfrey

***Class of Degree: 2<sup>nd</sup> Class (Lower Division)***

Buwa E. Richmond  
Ibegbulem Jennifer  
Onuorah O. Pascal  
Onwordi Victor O.  
Sadiq Adeola F.  
Smooth Blessing

Usman Abdullahi

**Department: Sociology and Anthropology**

***Class of Degree: 1<sup>st</sup> Class***

Ukpabi Chidiebere

***Class of Degree: 2<sup>nd</sup> Class (Upper Division)***

Etta Koli Mbeli

Gbemre Kesiena

**Department: Theatre Arts**

***Class of Degree: 2<sup>nd</sup> Class (Upper Division)***

Osayimwen Etinosa Yvonne

**COLLEGE: Business and Management Studies**

**Department: Accounting**

***Class of Degree: 1<sup>st</sup> Class Hons.***

Obikobe Nneka Ukamaka

Oguchi Ifeyinwa Nonyelum

***Class of Degree: 2<sup>nd</sup> Class (Upper Division)***

Akinnawonu Solayide Ojaola

Chinweuba Chidimma

Ekanem Etimfon Richard

Fadipe Adebimpe

Lawal Ummulkhairi Hamati

Megbuluba Aminoritse

Omosigho Osahon Enoruwa

Oseni Abiodun Amudalat

Ramoni Afusat Adeolapo

Uche Chinyere Nnedimma

Adekunbi Titilayo

Bibogha Nkechi Preye

Utomudo Patience Uzezi

West Osemwegie Cynthia

Okao Euphemia Ikponmwan

***Class of Degree: 2<sup>nd</sup> Class (Lower Division)***

Akhigbe Darlington Elakae

Amadi Kingsley Kakem

Audu Abdul-Qahhar

Ise Idehen Influence

Korakpe Blessing Najite

Ugoh Christiana

Okolo Amana Michael

Keyamo Nathaniel E.

Ovotu Eta Onome

Hussien Faruk Shamsudeen

**Department: Banking & Finance**

***Class of Degree: 3<sup>rd</sup> Class***

Timiren Adebukola Rashidat

**Department: Business Administration**

***Class of Degree: 2<sup>nd</sup> Class (Upper Division)***

Afolabi Olubumi

Agupugo Sandra Ifeoma

Echewa Okeoghene Bright

Okwilague Munet

Ololuka Comfort Nneka

Oriakhi Joy Orobosa

Ossai Chuka Ndidi

Salu Folashade

Uloko Jennifer

***Class of Degree: 2<sup>nd</sup> Class (Lower Division)***

Abohwo Oghenekawe Christopher

Adelekan Alabi Johnson

Adun Iyore Jennifer

Agbogidi Elohor Jennifer

Aliba Victoria Ifeanyi

Anifowoshe Olarewaju

Atobatele Olaniran

Bulus Patience

Ekhator Osagie

Ekpemukpolor Sophia

Ekuase Joan Aihanuwa

Enifeni Musabau

Erebor Christopher

Ikeani Chisom F.

Kitchener Ali

Mang Agbai

Iyasele Michael

Nzemeka Onyeka Celestine

Ogbebor Davis  
Ogbeni Omosde  
Okiemute Ika  
Okpala Kenechukwu  
Ojih Alexander  
Omekeh Dafe  
Osagiede Anthonia  
Oseni Temitope Idiat  
Popoola Olatunde  
Ukpetenan Collins Osazuwa

**COLLEGE: Engineering**  
**Department: Chemical Engineering**  
**Class of Degree: 1<sup>st</sup> Class Hons.**  
Junald Zainab Oluwakemi

**Class of Degree: 2<sup>nd</sup> Class (Upper Division)**  
Anyankpele Paul Ebitimi  
Okeugo Chidinma  
Raji Waheed Akinkunmi  
Kporo Toritseju Abigail

**Class of Degree: 2<sup>nd</sup> Class (Lower Division)**  
Egurela Inawanze Jr.  
Aina Simon Mayowa  
Obi Nnamdi Michael

**Class of Degree: 3<sup>rd</sup> Class**  
Mogaji Adebola Hamid  
Tifase Ronke  
Abdullahi Aminat

**Class of Degree: Pass**  
Hassan Faisai

**Department: Civil Engineering**  
**Class of Degree: 2<sup>nd</sup> Class (Upper Division)**  
Achimalo Ezugo Emeka  
Ale Olugbenga Joseph  
Koffreh Archibong  
Nwanise Etienam Nwanise

**Class of Degree: 2<sup>nd</sup> Class (Lower Division)**  
Naiyeju Oluwatosin Samuel  
Orakwue Chukwuemeka

Oyati Ebenezer

**Class of Degree: 3<sup>rd</sup> Class Hons.**  
Forsman Joshua Ebikikoro

**Department: Electrical/Electronics Engineering**  
**Class of Degree: 1<sup>st</sup> Class Hons.**  
Onyegbadue Ikenna

**Class of Degree: 2<sup>nd</sup> Class (Upper Division)**  
Aibaogun Izeokhai  
Akpovwa Edade  
Anyaeibunam Joseph  
Idoko Benson  
Izuora Dumkene  
Ohaegbu Mezu  
Okekumata Omoruyi  
Okoboh Oseghale  
Okpeahor Abigail  
Onota Rukevwe  
Okhumode Christian  
Yusuf Asaju  
Akinmosin Kikelomo

**Class of Degree: 2<sup>nd</sup> Class (Lower Division)**  
Ayerse Osehon  
Amah Kelechi M.  
Edekobi Tony Emeka  
Egorerua Ovie  
Odeyemi Gbenga  
Okpowhorho Ovovwe  
Sopuluchukwu Ifeagwazi

**Department: Computer Engineering**  
**Class of Degree: 1<sup>st</sup> Class**  
Orororo Oghene Stephen

**Class of Degree: 2<sup>nd</sup> Class (Upper Division)**  
Nweke Onyinye

**Class of Degree: 2<sup>nd</sup> Class (Lower Division)**  
Afejuku-Mene Gbubemi  
Ayebatonye Ikoli

Edionsenyene Williams  
Effiong Effiom Umoh  
**Department: Mechanical Engineering**  
**Class of Degree: 2<sup>nd</sup> Class (Upper Division)**  
Abari Abulhamid  
Adeuji Olumide  
Alfred David Christopher  
Arukawhore Nelson  
Atiemo-Gyan Yaw  
Don Pedro Vito  
Nletem Nhuomachi  
Ogaga Okokowa  
Oziegbe John Ehimare

**Class of Degree: 2<sup>nd</sup> Class (Lower Division)**  
Ogbuke Henry  
Ohaegbulem Kingsley  
Ohunaya Toriteju  
Otungo Amaziah  
Umoh Effiom Umoh

**Class of Degree: 3<sup>rd</sup> Class**  
Alawode Olusegun  
Okafor Ifeanyi  
Omorgie Paul

**COLLEGE: Engineering**  
**Department: Petroleum Engineering**  
**Class of Degree: 2<sup>nd</sup> Class Hons. (Upper Division)**  
Eno Enobong Unanaowo

**Class of Degree: 2<sup>nd</sup> Class Hons. (Lower Division)**  
Balogun Omosalewa Omowunmi  
Tinubu Oluwasegun Olukunle  
Oduah Philip Chiweta  
Dakwak Rwang Yakubu

**Class of Degree: 3<sup>rd</sup> Class**  
Aguebor Ikponmwosa Samuel

**Department: Food Science & Technology**

**Class of Degree: 2<sup>nd</sup> Class Hons. (Upper Division)**  
Aborishade Ilashe  
Ijabiyi Idowu

**COLLEGE: Health Sciences**  
**Department: Biochemistry**  
**Class of Degree: 2<sup>nd</sup> Class Hons. (Upper Division)**  
Ekhayeme E. Clara  
Nkwonta Binyelum E.  
Ukah Fabiola

**School of Clinical Medicine (Bs.C. Nursing)**  
**Class of Degree: 2<sup>nd</sup> Class (Upper Division)**  
Agbonavbare Happiness  
Bodemeh Betty  
Ekokamu Edema  
Ohahuns Amara  
Omo Ogiefo Joy  
Uwakure Nkechinyere

**Class of Degree: 2<sup>nd</sup> Class Hons. (Lower Division)**  
Agu Chinelo  
Eniyewu Abimbola  
Omisakin Busayo  
Usuh Stacy Amenze  
Oyelayo Olufunke

**School of Clinical Medicine**  
**Degree: MBBS**  
Abbe Daniel Orobosa  
Abdulazeez Abdulkareem Zainab  
Abdulirahab Medinat Bolanle  
Adebola Afolabi Olukole  
Adedokun Aderemi  
Adekunle Yetunde Enitan  
Adesesan Ibukunoluwa Omowunmi  
Afejuku Anirejuotitse Alero  
Agho Osamede  
Ahmed Abdultaofik Olawale  
Aikhomun Aizenose Esther  
Aimola Ebenmosi  
Ajayi Oluwabukola

Ajuwon Moyosore Karimat  
Akanbi Folashade Linda  
Akhigbe Josephine Enuwabhagbe  
Akingun-Roberts Oluwaseun  
Akoleade Amos Akinwunmi  
Akpan Lyndia  
Aliyu Abdullateef Babatunde  
Alli Oluwabukunmi  
Amoda Oluyemisi  
Anyaneji Chiamaka  
Anyankpele Emmanuel Ebitara  
Arowomole Abimbola  
Atugbokoh Lesley Nneka  
Atune Bright Maduka  
Awoderu Olamide Esther  
Babalola Oluwafeyisayo Ololade  
Balogun Simon Adewale  
Bello Philip Ransom  
Chima Jane-Frances Ngozi  
Chime Amaka  
Chime Nnena  
Davids Kelly Best  
Diagi Ehimen Oamen  
Diya Ololade Oluwadamilola  
Ebhohimen Winifred  
Ebochue Uzochi  
Eferakeya Emuobosa Adegor  
Eke Onome Oghgenetega  
Eke Oyidia  
Eletu Ibrahim  
Emwanta Paul Nehikhara  
Enweremadu Kingsley Chidi  
Enyoghasi Juliet Oluchi  
Esu Imoadeowo Cecelia  
Etim Lfiok Paul  
Ezeamakam Uche Charity  
Fatuga Adedeji Lukman  
Fowler Omolayo Olakitan  
Freeman Akintunde Olujimi  
Hart Ivy Belema  
Hassan Assad  
Horsfall Oriibim Tariere  
Idris Mukhtar Shehu  
Idrisu Mbdulquadri  
Ijeoma Okenwa Abara  
Ikedum Millicent Chibuzor

Ilonuba Chinwendu  
Lamba Bintu Mohammed  
Lawal Mayowa Tosin  
Maduemezia Nwakaego  
Maranzu Vivian  
Muoka Ogechukwu  
Mustapha Fatima  
Nnama Nkiru  
Nnando Edward Nwannediuko  
Nsofor Jennifer Ifeanyi  
Nweke Onyinye Folake  
Nwokeukwu Nnenna Adaeze  
Nyamali Mariamu  
Obamogie Evelyn  
Obanovwe Enita Judith  
Obi Jacinta Nkiru  
Obialo Chioma Pamela  
Obinor Nkechi Christiana  
Odebode Adewale Kunle  
Oguamanam Nina Nneka  
Ogunsola Bamidele  
Oguntoyinbo Omobolaji Atinuke  
Ohanka Joan Chiyere  
Ojada Oghale Vera  
Ojidoh Christian  
Okafor Obinna Carl  
Okechukwu Chinenye  
Okeowo Gbemisola  
Okodi-Okono Nsikan John  
Okoro Chinenye  
Okunzuwa Efe  
Olukoga Omolara Yewande  
Omoloja Olufemi Oluwole  
Omoniji Oluwamayowa Nicholas  
Omoregie Nota Nosa  
Omoyajowo Saheed Adedayo  
Onajobi Abibat Oloruntobi  
Onifade Toyin Oluwatoyin  
Onuoha Bernadette  
Opuiyo Tina  
Oputa Chioma  
Orakwue Nneka Amalachukwu  
Osadiaye Osarodion Joseph  
Osemwegie Natalie  
Osibogun Opeyemi Eberenmwa  
Osiboavwodua Precious

Panama Lucky Ogheneruemu  
Potts Johnson Babajide Agboola  
Salami Oluwakemi Rukayat  
Sodipo Babatunde  
Ubebe Osagie  
Udoudo Nsiong Patrick  
Uzochukwu David  
Warkani Hyelhara  
Willie Anthony  
Zubairu Umar Farouq  
Abidakun Ibukunoluwa Tope  
Adebayo Adebusola Olasunkanmi  
Afelumo Temitope Olajumoke  
Agunbiade Oyewunmi Funmilayo  
Amadasun Precious Oghomwen  
Amba-ambajowei Esinkumo Etipou  
Duru Nnandi Chinedu  
Echikwa Uwhetu Esor  
Eka Christiana Joe  
Enebli Omenti Charles  
Fawole Ayodeji Emmanuel  
Ibeh Chinwe Amara  
Imasuen Itohan Omosefe  
Manu Nkem  
Mouka Chika Jennifer  
Negene Ngozi Emmanuela  
Nmerukini Chika  
Nwosu Jane Nneoma  
Obiefuna Adaobi Genevieve  
Okpikpi Betty Gbenyen  
Osaghae Eseosa  
Adebanjo Damilola Elizabeth  
Amaechi Nne Ihuoma  
Asekame Omokhowa Tito  
Asodike Osinachi Ginikachi  
Atu Anthonia Oyemwen  
Bulama Ahmed Abdu  
Enabulele Nancy Itohan  
Gana Bala Theophilus  
Igyuse Saater Solomon  
Ijioma Oyidia Nnenna  
Ishaka Oghenebrume Jennife  
Kifasi Rimam Ifraim  
Naiyeju Olufunso Joseph  
Nkanta Stephanie Maurice  
Nwabunike Munachi Onyebucbi

Nwaokoro Samuel Adimabua  
Nwosu Gloria  
Odey Janet Nka  
Ogunjobi Toluope Olwafunmilayo  
Okolie Sylvia Seun  
Omolayo Oluwakemi Olufeyi  
Omoragbon Felix Uhunoma  
Osayinwen Jennifer Inuwahen  
Oyawiri Enohor Edna  
Sakajojo Lanre Raheem  
Udo Inigbehe Nyong  
Ukpong Enomfon Emmanuel  
Erewele Omoye Precious  
Olofin Mary Adimola

**Department: Medical Laboratory  
Sciences**

***Class of Degree: 2<sup>nd</sup> Class Hons. (Lower  
Division)***

Yingi Finiere Esther Ekene  
Okorie Grace  
Edosa Omoyemwen Peari

**Department: Physiology**

***Class of Degree: 2<sup>nd</sup> Class Hons. (Lower  
Division)***

Nwose Esther Ekene

**COLLEGE: PHARMACY**

**500 LEVEL A**

Abdulkadir, Safiya Shehu  
Adeniyi, Titilola  
Agunbiade, Foluso Abayomi  
Agwu, Chioma Nwogo  
Anene, Chukwuemeka Jude  
Anosike, Helen Nneoma  
Avanrenren, Owamagbe  
Bramah, Stella Omokhefe  
Egolum, Ogochukwu  
Eruchalu, Obiajulu  
Humphrey, Chijioke Nkem  
Iloanugo, Henry Tochukwu  
Jemegbe, Eyimofe Oke  
Maduakor, Chuwunonso Godwin  
Obiebi, Okiemute  
Ogagbe, Sussy

Ogunjide, Michael  
Okofor, Okuchukwu Mariam  
Okonkwo, Ifeayi Sydney  
Olalekan, Bolaji Kamoru  
Onyeador, Ginika Irene  
Oshinowo, Funmilola  
Oyeneyin, Olayele Raphael

### **500 LEVEL B**

Abioye, Oluwakemi Oyenike  
Abujade, Olaide Ganiyar  
Adiat, Adenike  
Agbo, Dorathy Nkiruka  
Adjbola, Kolawole Daniel  
Alfred, Inemesit Okon  
Amako, Chinenye Akudo  
Anejo, Timothy Edache  
Antai, Nkoyo Usoro  
Awak, Mbeke Anietie  
Bello, Elizabeth Amenze  
Ekechukwu, Chudinma  
Fide-Nwaogu, Chizaram  
Henshaw, Gladys Okon  
Idahosa, Evbu Elizabeth  
Itamuseye, Moyomola  
Iwuoha, Oluchukwu  
Kanu, Ugochukwu Stanley  
Mosaku, Yewande Tosin  
Nsaka, Dorcas Eziuche  
Obajulu, Ebenmosi Teka  
Ochuko, Oghenekaro Unuagba U  
Odirah-Ezezue, Ijeoma  
Ogagbe, Akkpos  
Ojo, Oluseyi Christogonus  
Okafor, Ijioma Nkechi  
Okoli, Moses Ebubechukwu  
Okolo, Chibuor Floremce  
Okorafor, Chioma Queen  
Okoye, Uju Olivia  
Olaniran, Olakunbi Abahun  
Oloyede, Olakunle Odunayo  
Oluwole, Oluwatoyin Comfort  
Onuoha, Lynda Chinenye  
Osagie, Omoregie  
Osaigbovo, Omoyemwen  
Oso, Abayomi Stephen

Sakajojo, Lekan  
Shode, Oluwatobiloba Folakemi  
Udeze, Ifeyinwa Onyinye  
Yusuf, Nafisah

### **500 LEVEL C**

Adefisoye, Adeola  
Adewusi, Oluwakemi Oluwafunke  
Adewuyi, Olayiwola Samuel  
Ajulufoh, Mathew Chukwuaqoziem  
Akinpelu, Oluwole Adedeji  
Akinso, Dolapo Damilola  
Akosile, Kabir Olatokunbo  
Atanda, Latifat Abidemi  
Buhari, Zainab Modupeola  
Edu, Ewezu Augustine  
Ejiofor, Chukwuebuka Lotanna  
Ekeng, Josephine Nsa  
Ekwueme, Uche Thompson  
Emili, Onyinye Davina  
Ezejiaku, Chidozie Ikenna  
Ezike, Kenechukwu Stanley  
Famoye, Oluwaseyi Comfort  
Fatile, Ifeoluwatayo Bebayode  
Halid, Salma Yusuf  
Ifebigh, Jennifer Chidinma  
Ikwebe, Ori Helen  
Jaja, Florence Isaac  
Kalu, Ifeayichukwu Orji  
Lazarus, Inimotimi Juliet  
Makaraba, Success Antorofa  
Ngene, Nonso Oscar  
Nwachukwu, Obiageli Gertrude Adaku  
Obazee, Osazee  
Odeh, Omorovbiye Cynthia  
Oduwole, Oluwatobi Ibrahim  
Ofoeyeno, Esanye Tinuke  
Ogunleye, Busolami  
Ojo, Onwaseyi Vivien  
Okporu, Oyinbrakemi  
Okodugha, Agbomerele Joan  
Okoro, Valetina  
Olakpe, Jennifer Elo  
Oluyide, Oluwatosin Opeyemi  
Osemwegie, Eseosa  
Osuigbo, Evabgeline Onyinyechi



Tende, Elizabeth  
Umebuani, Donald Arizechukwu  
Uzoh, Ijeoma Cynthia

**COLLEGE: Law**

***Class of Degree: 1<sup>st</sup> Class (Hons.)***

Akpan Ekemini Aniedi  
Fagbure Aderinsola Adetola  
Nwangene Chinonso Calista  
Orija Olajumoke Adebola

***Class of Degree: 2<sup>nd</sup> Class (Upper Division)***

Adebayo Adebusola Adetoun  
Adebayo Hassan Afees  
Adebiyi Adedotun Afolabi  
Adedeji Deborah Adebimpe  
Adewale Adedamilola Bose  
Ajoni Olaoluwa Adeoye  
Akingbule Olagboyega Akinyele  
Aladejare Adetokunbo Adesoji  
Alawoya Abolanle Toluwalope  
Amissine Mercy Ayokanmi  
Anyankpele Prere Anna  
Aregbesola Ajibola Deborah  
Aro Olaide Ismail  
Audu Omotayo Bilkis  
Dagogo Alabota Queen  
Douglas Tamunotokoni Eliezer  
Ebikebina Deinmobofa Tantua  
Edema Omanode Efe  
Edun Oluwatoyosi Tosin  
Ekanem Victor Edwin  
Ekpunobi Chidinma Sylvia  
Erhonsele Oadianosen Kelvin  
Fashanu Racheal Olabisi  
Fasidi Ololade Idowu  
Ifediba Florence Ifeoma  
Kanu Sandra Chinenye  
Mann Peres David  
Masajuwa Okiemute Kolawole  
Nnaka Judith Amarachi  
Nwoha Onyeka  
Nwosu Ijeoma Chetachukwu  
Obijuru Eberechukwu Patricia  
Oguntoyinbo Olajumoke Abisola  
Ohenhen Mandy Inuaghata

Okonkwo Akuejosi Princess  
Okpoiso Yireabasi Nseabasi  
Olanlokun Oluwatoyin Temitope  
Omidiji Omowumi Olayinka  
Omolayo Precious Oluwatobi  
Onah Christian Ngozi  
Owhoavwodua Pius  
Owopetu Omolala Deborah  
Oyerinde Amoluwapo Felicia  
Rahman Adenike Kafilat  
Somari Gift Ibierembo  
Tantua Ebideinere Webba  
Nwanise Lucy Efenam

***Class of Degree: 2<sup>nd</sup> Class (Lower Division)***

Adiele Nnenna  
Afffia Akan Godwin  
Afimoni Gift Daniel  
Ajuyah Toriseju Christopher  
Amadi Emina Philip  
Azifuaku Emeka Anthony  
Bakare Abigail Abiola  
Barrah Uchendu Ben  
Chinweze Ebuka Martins  
Dike Chizor Ndumardi  
Dosumu Temitope Adeoye  
Emekewe Chukwumajem Christian  
Ezedi Hilary Junior  
Ezenyili Eloka Valentine  
Igbinedion Edugie  
Jimoh Yusuf Oshoreasa  
Kemefa Baariki Pius  
Obiekezie Helen Chibuzor  
Obot Iberedem Obot  
Odoro Adebisi Adeyinka  
Oduneye Ayodele Odinaka  
Ogundipe Olajumoke Eniola  
Okaruefe Ufuoma Sophia  
Okeze Shirley Ijeoma  
Okuegha Uruemu Thatcher  
Olakunrin Feyisike  
Olowofe Oyemolade Charles  
Omo-Iziren Ibijoke  
Omokaro Nosakhare Catherine  
Omoru Onome Pamela  
Onwe Alexander Nnaemeka

Onyeka Ikemefuna Chika  
Oriuwa Mishael Onyedikachi  
Osisioma Samuel Ogochukwu  
Oyibo Onovughakpor Freda  
Sadiku Paul Remilekun  
Sambe Victoria  
Udoessien Waseno Etta  
Udora Arinze Nathaniel

**COLLEGE: Natural and Applied  
Sciences**

**Department: Biological Sciences  
(Microbiology)**

***Class of Degree: 2<sup>nd</sup> Class (Upper Division)***

Abdullahi Hadiza  
Aderoju Temitope

***Class of Degree: 2<sup>nd</sup> Class (Lower Division)***

Akinmolayan Abiola  
Awantaye Kalaine  
Bamgbala Sinat O.  
Baize Elehor  
Etuk Ubokobong I.  
Inneh Sophia Taiye  
Obialo Lynda Ojuigo  
Oboarekpe Justice  
Odusanwo Abiola Kaosarat  
Ogbuja Ndukwo N.  
Ojo Eghosa Kingsley  
Okeke Oyinye P.  
Oni Oyemwen Antonette  
Onwuachi June  
Osemwegie Kingsley  
Uluocha Brown  
Omosumwen Osamudiamen

***Class of Degree: 3<sup>rd</sup> Class***

Nwopi Vivian C.  
Udoh Jane

**Department: Chemical Science**

***Class of Degree: 2<sup>nd</sup> Class (Upper Division)***

Dafosi Anikeola Charity

***Class of Degree: 2<sup>nd</sup> Class (Lower Division)***

Amahwe Okeezee Isabel

Emukai Chitoo Mariam  
Eregbowa Iyen  
Okeke Lynda

**Department: Computer Science &  
Information Technology**

***Class of Degree: 1<sup>st</sup> Class***

Oni Moyosoreoluwa

***Class of Degree: 2<sup>nd</sup> Class (Upper Division)***

Ajayi Moses Olaoluwa  
Ariweriokuma Excellence  
Aro Olawale Azeez  
Chioke Mukosolu Onyeka  
Eyiowuawi Gbolahan  
Obe Olumide Felix  
Odukuye Kesiena Theresa

***Class of Degree: 2<sup>nd</sup> Class (Lower Division)***

Adeorinike Shola Fresh  
Adisa Ayobami  
Akinlabi Oladotun  
Badmus Rashidat Abiola  
Bulus Hope Miman  
Chima Adimchonobi Dominic  
Gidado Sirajo Mohammed  
Iyasere Akpobome  
Obaroghedo Alex Ohenhen  
Obomanu Omowumi Hilda  
Odukuye Kesiena Theresa  
Okoh Isioma  
Ologunleko Oluwatosin Adenike  
Osanyintuyi Damilola Stephen  
Ubogu Chidinma  
Uche Samuel Naemeka  
Ugege Oghenevwede  
Ugoanyanwu Chukwuemeka

***Class of Degree: 3<sup>rd</sup> Class***

Oluwatayo Ayotunde  
ROBERT Dayo Richards

**Department: Agric-Economics &  
Extension**

***Class of Degree: 2<sup>nd</sup> Class Hons. (Lower  
Division)***

**DEGREE ANALYSIS**

<b>COLLEGE/DEPT</b>	<b>1<sup>ST</sup> CLASS</b>	<b>2<sup>ND</sup> CLASS UPPER</b>	<b>2<sup>ND</sup> CLASS LOWER</b>	<b>3<sup>RD</sup> CLASS</b>	<b>PASS</b>	<b>TOTAL</b>
<b>POSTGRADUATE STUDIES</b>						
i. Doctorate Degrees						<b>5</b>
ii. Masters						<b>202</b>
iii. Postgraduate Diploma						<b>11</b>
<b>ARTS &amp; SOCIAL SCIENCES</b>						
i. African & Foreign Languages (French)	-	1	-	-		1
ii. Economics & Development Studies	4	15	17	-		36
iii. English	-	-	1	-		1
iv. Geography & Regional Planning	-	2	-	-		2
v. International Relations & Strategic Studies	5	8	9	1		23
vi. Mass Communication	-	22	11	-		33
vii. Political Sc. & Public Administration	-	1	7	-		8
viii. Sociology & Anthropology	1	2	-	-		3
ix. Theatre Arts	-	1	-	-		1
<b>BUSINESS &amp; MGT STUDIES</b>						
i. Accounting	2	15	10	-		27
ii. Banking & Finance	-	-	-	1		1
iii. Business Administration	-	9	28	-		37
<b>ENGINEERING</b>						
i. Chemical	1	4	3	3	1	12
ii. Civil	-	4	3	1		8
iii. Computer	1	1	4	-		6
iv. Electrical/Electronics	1	13	7	-		21
v. Mechanical	1	9	5	1		16
vi. Petroleum Engineering	-	1	4	1		6
vii. Food Science & Technology	-	2	-	-		2
<b>HEALTH SCIENCES</b>						
i. Biochemistry		3				3
ii. Nursing		6	5			11
iii. Medical Laboratory Science			3			3
iv. Physiology			1			1
v. Medicine						165
<b>LAW</b>	4	47	39			90
<b>NATURAL &amp; APPLIED SCIENCES</b>						
i. Biological Sciences (Microbiology)		2	17	2		21
ii. Chemical Sciences (Industrial Chemistry)		1	4			5
iii. Computer Science & Information Technology	1	7	18	2		28
vi. Agric-Economics & Extension			1			1
<b>PHARMACY</b>						63
<b>Total</b>	<b>21</b>	<b>176</b>	<b>197</b>	<b>12</b>	<b>1</b>	<b>63</b>

**LIST OF GRADUATING STUDENTS – 2011/2012****SCHOOL OF POSTGRADUATE STUDIES & RESEARCH  
OBA EREDIAUWA COLLEGE OF LAW**

<b>NAMES</b>	<b>DEGREE</b>
EMAVIWE, CHARITY UDOKAMMA	Ph.D
IBE, DANIEL UCHENNA	Ph.D
OKOJIE, ERIC AYEMERE	Ph.D
OLAIDE ABASS GBADAMOSI	Ph.D
CHARLES EMEKA OCHEM	Ph.D
NAT CHU OFO	Ph.D

**COLLEGE OF ARTS AND SOCIAL SCIENCES  
DEPARTMENT OF POLITICAL SCIENCE AND PUBLIC ADMINISTRATION**

<b>NAMES</b>	<b>DEGREE</b>
ADEDIRAN, MERCY MODUPE	M.SC
IGBINEDION, KENNEDY ERHARUYI	M.SC
IGBINEDION, GRACE	M.SC
STANLEY AGBA	M.SC
ANGELA EZEWELE	M.SC
SYLVIA IGHODARO	M.SC
OLUBUNMI ORIS OTTI	M.SC
FIDELIS ATTAMAH	PGD
UJU IWEANYA	PGD

**DEPARTMENT OF THEATRE ARTS**

<b>NAMES</b>	<b>DEGREE</b>
PRAISE CHIDINMA DANIEL-INIM	Ph.D

**COLLEGE OF BUSINESS AND MANAGEMENT STUDIES  
DEPARTMENT OF BUSINESS ADMINISTRATION**

<b>NAMES</b>	<b>DEGREE</b>
ELIZABETH OSOMINOMO AKPETI	Ph.D
SAMSON ADEWALE ADEDIRAN	Ph.D
IMAKWU, KENNETH ITUMA	M.SC
NWADIARU, STANLEY OKWUDIRI	M.SC

**DEPARTMENT OF BANKING AND FINANCE**

<b>NAMES</b>	<b>DEGREE</b>
UGHULU, STEPHEN EBHODAGHE	Ph.D

**COLLEGE OF NATURAL AND APPLIED SCIENCE**

<b>NAMES</b>	<b>DEGREE</b>
IKARAOHA, CHIDIEBERE IKECHUKWU	PH.D
ABDUL, GANIYU NURYN	M.SC
ADEYEMI, OLURANTI AMOKE	M.SC
AKINOLA, RASHEED OLABISI	M.SC
AKELE, RICHARD YOMI	M.SC
ALADE, TOLUPE OLUKEMI	M.SC
ALAO, BENJAMIN OLAJIDE	M.SC
AMAIHUNWA, CHUKWUKA KINGSLEY	M.SC
BABALOLA, SAMUEL AKINJIDE	M.SC
BRIGHT, SHEDRACK ESYINE	M.SC
CHINAKA, CHIDINMA CHRISTIANA	M.SC
CHUKWUANI, UFUOMA	M.SC
EHIAGHE, JOY	M.SC
ENITAN, SEYI SAMSON	M.SC
ERIC, EMMANUEL UCHENNA	M.SC
FOWOTADE, AKINOLA ADEKUNLE	M.SC
HASSAN, MUTIYAT ADEYOOLA	M.SC
IDAWOR, MONDAY AZEGBOBOR	M.SC
IDEHEN, IYORE CHARLES	M.SC
IDOKO, ANTHONY OJONUGWA	M.SC
ITODO, GRACE ELEOJO	M.SC
IYEDE, ESTHER OGHENEROBO	M.SC
LAWAL, MONSURAT	M.SC
NASAKA, SUNDAY	M.SC
NNAJI, JOSEPH CHIMA	M.SC
OBOMA, YIBALA IBOR	M.SC
OGBEIDE, OSE	M.SC
OKPU, AZI TUBONIMI	M.SC
ONOV OH, EMAMUZOU MAGDALENE	M.SC
ONOV OH, EMMENU EL ONUORA	M.SC
ONYIA, CHRISTIAN AMOBI	M.SC
ONYIJE, FELIX MONDAY	M.SC
OWOLABI, OMOLOLA	M.SC
POWER-BAGOR, ONOME	M.SC
RAHEEM, OLAYINKA GHAZAL	M.SC
TIJANI, BUSIRA ADESINA	M.SC
UDOUNANG, EMMANUEL IBANGA	M.SC
UWUIGBE, MATTHEW	M.SC
WONUOLA, HERITAGE ADEWUMI	M.SC

**COLLEGE OF ARTS AND SOCIAL SCIENCES**

**DEPARTMENT OF ECONOMICS AND  
DEVELOPMENT STUDIES**

**FIRST CLASS**

EZENWANNE ONYINYE PERPETUAL  
OMONIYI, OLUWADAMILOLA JOAN

**SECOND CLASS (UPPER DIVISION)**

ABEL, ONYEMUWA KATE  
ABUBAKAR, AISHA  
AFOLABI, ADEOLA RUKAYAT  
ANYABA, KINGSLEY CHIBUZOR  
ANTAMELE, VICTOR CHIEMKA  
AYOGU TOCHUKWU  
DAWODU, ADEOLU ONYINUFCHI  
EJEH DUKPE  
CHARLES GRACE MEMBER  
EYISI MAKUACHUKWU GRACIOUS  
JAIYE-TIKOLO IFEDOLAPO  
TOLULOPE  
MUSA BASHIR  
MUSA HAUWA NANA  
ODIGIRI MAXWELL  
ODO VANESA NENI  
OGBONNA UKACHI AUDREY  
OKOSUN STANLEY  
ILOEKWE EUNICE UZOAMAKA  
OKUNOLA OLUWAFEMI AYODEJI  
ONYEOBI PARRY IFEANYI  
OTUNTA PEARL EZINNE

SOTA OGHENETEJIRI IVY  
TARKUMBUR JUDE TARVERSHIMA  
TOJE, JULIET OGHENERUKEVWE

**SECOND CLASS (LOWER DIVISION)**

ATANA OFIEMMO GIEMEBO  
AKAGBOSU LEO DARE  
EKEMAM SAMUEL CHUKA  
EKERUCHE CHINEDU  
EMMANUEL CHIDI MICHEAL  
GAMBO MOMSIRI WESLEY  
GOTRING KITSHIWE KEN  
EZUGWU SIMON EMEKA

IKEBUDU UGOCHUKWU ARINZE  
ISIAKA BABATUNDE HAKEEM  
NNAJI MACPHILIPS JIDEOFOR  
NWACHUKWU NNAMDI EMMA  
OKONKWO UGOCHUKWU IFEANYI  
OKOYE PRINCE CHUKWUEBUKA  
RAYDON EVELYN  
UZOHO CLEMENT UGOCHUKWU

**DEPARTMENT OF ENGLISH  
SECOND CLASS (LOWER DIVISION)**

MOMOH, BUKOLA UMANEIVO  
OKOLO, ISIOMA OFUNNE

**DEPARTMENT OF GEOGRAPHY AND  
REGIONAL PLANNING**

**SECOND CLASS (UPPER DIVISION)**  
BABANGIDA, MOHAMMED SHAHEED  
OCHALA, EMMANUEL OJOMUGBO

**SECOND CLASS (LOWER DIVISION)**  
JINKATORO, MUBARACK USMAN  
SULEIMAN, ABDUL-MALIK  
UKPONG, UWEN OKON  
USANGA, AKWAMFON

**INTERNATIONAL RELATIONS**

**FIRST CLASS**

AYO ELIJAH  
OGHIEAKHE ISABELLA

**SECOND CLASS (UPPER DIVISION)**

ADELANA OLUSHOLA  
ADELE CHINASA  
CHU O. CHUREMI  
EJENONU SONIA  
EZENDUKA ADAKU  
IRUOBE OVY  
KAWA LAWRENCE  
OKAFOR CHINYERE  
OKEY JULIET

**SECOND CLASS (LOWER DIVISION)**

AGONI ODION  
AKINGBIUGBE AKIN  
BOUFINI PAUL  
IHO WUESE WINIFRED  
IYASELE HARRIETA  
JAJA THELMA  
KIMBERLY UBIEBOR  
LAWSON ASORIYA  
NNEKA BELLA AGBOTA  
ODIBO PATIENCE  
ONI ROSELINE  
ADETULA ADEDAMOLA  
EMUOBOR AKPOIGBE  
ADEBAYO EFFOSIUGBORE  
HUMPHEREY  
KAYIT YUSUF

**DEPARTMENT OF MASS  
COMMUNICATION  
FIRST CLASS**

MANYA ANILI SHEBA  
FALAYE DAMILOLA TEMITOPE  
OKPALA VIVIAN UCHEMELU  
OGUNFOWOKAN FUNMILAYO  
ENIOLA

**SECOND CLASS HONOURS (UPPER  
DIVISION)**

GOVERNOR TAMARAETAREM  
EJERE OHITEME  
DIKE STELLA OGOCHUKWU  
JINADU SIMISOLA SHERIFAT  
LADEGA OLUWASEAN OLUWAKEMI  
MOHAMMED AMINA ANWAL  
ANYA IFEOMA SHARON  
OKO ELIZABETH TELEMAZIBA  
OKUNOWA OMALARU OLUWANDE  
ORAJIUBA CHIOMA BLESSING  
AMREDHE ELO JENNIFER  
OWODUNMI ENITAN IYABO  
STEWART AMEN  
UGBORIATA EBIKONBOERE  
ZACCHAEUS YINESINI EUNICE  
SALAKO OLUWATOYIN OLUBUKOLA  
ZIWORITIN ONYEINKUOLE  
ALIYU SAFIYA

SHEHU AISHA WAN  
ADENIYI OLUWATOSIN  
OKORO ANULI SUZIE  
ANYAORAH IFEYINWA QUEENDLIN  
DANBAUCHI ADAR LIATU

**SECOND CLASS (LOWER DIVISION)**

AKINOSHO AMINA OMOLOLA  
FELIX AKINTUNDE EMMANUEL  
GOVERNOR SEYA  
LAGOS IWAIKPOEMI GLORIA  
OZOKA BENITA CHINEYE  
ERIAMIANTOE EKI  
ONYEDIKA OBINNA CHRISTIANTUS  
AUDU GODWIN IDENOBE  
OBI FELICIA  
EJENADIA DORCAS  
IJABIYE MAPELOLA ANTONIA  
OSELIM FAVOUR  
ILE VICTORY

**DEPARTMENT OF POLITICAL SCIENCE &  
PUBLIC ADMINISTRATION  
FIRST CLASS**

AGBORIANE NYORE SOPHIA

**SECOND CLASS (UPPER DIVISION)**

ADAMU MUHAMMED BASHIR  
AMAYO ODION CHARITY  
DOKPESI OBED OSIOMA  
JAJA DAISY IBALAFA  
UDOH NKECHI MARYROSE

**SECOND CLASS (LOWER DIVISION)**

ADUN OGHOGHO FLORA  
AKAOLISA TUKWASI MICHAEL  
ATIKPA GLORY TOKONI  
IBEKWE EMEKA EZEKIEL  
JADA MUHAMMED ADAMU  
JADA MUHAMMED HAFISU  
JAJA BOMA BASIL  
OBIORA UDOKA TONY  
ODOYA ROWAN CHRISTOPHER  
OKOH THEODORA CHIDINMA  
OSHIFESO DAVID TAYO  
SAIDU ASIYA

SURAJUDEEN SALIMAT UMAR

**DEPARTMENT OF SOCIOLOGY AND ANTHROPOLOGY**

**SECOND CLASS (UPPER DIVISION)**

OLOBAYO ABRAHAM BABATUNDE  
ARAGBADA TENIOLA CATHERINE  
OWODUNI JEMILAH MORADEYO  
ZACCHAEUS SOMFIEME GOODNESS  
ILE ONOZE HENRY  
AIREWELE CHRISTY SONIA

**SECOND CLASS (LOWER DIVISION)**

UCHENDU CHINWE JOY  
IFAORUMHE ERAGA JOB  
EJUMEDIA OCHUKUMENA  
ILE ONOZE HENRY  
AIREWELE CHRISTY SONIA

**DEPARTMENT OF THEATRE ARTS**

**SECOND CLASS (LOWER DIVISION)**

LEHA BIYAMBINI PHILEMON  
OKOYE HENRY OKEOMA  
ADEBARI GBENGA DEJI

**MALLAM SANUSI LAMIDO SANUSI  
COLLEGE OF BUSINESS AND  
MANAGEMENT STUDIES**

**DEPARTMENT OF ACCOUNTING**

**FIRST CLASS**

UTUK, EME EBONG

**SECOND CLASS (UPPER DIVISION)**

ARO, OLASUMBO AZEEZAT  
ETUK, UDUAKOBONG ITORO  
ITULUA, EMANNUELLA  
OMOGUNWA, OLUWASEUN RACHAEL  
KYPUS, MANUSUONYO  
FREGENE, BRENDER EYITEMI  
OMO-IZIEN, OMON RUTH  
ASAKPA, BLESSING  
ADIO, AYOTOPE GABRIEL  
AIRHIAVBERE, ANGEL ESOHE  
BIRIBAI, EBUIBULOKEMI  
BOYE, ADERINOLA OLUWASEUN  
EBIOGBE, EFOSA

LAWAL, BARIRAH  
MAKETEMI, OMAMUROMU  
ODILI, AMAECHI  
ZIWORITIN, FAITH  
BABA, FRIDAY  
OKO-OZA, OSAMERE  
OYESEGUN, FATIMAH

**SECOND CLASS (LOWER DIVISION)**

ACHAKA, SAMUEL ACHAKA  
ADAMU, HASAN  
CHUKWUEMEKA ANTHONY  
EFENSHI, IFEANYI EMMANUEL  
IHANUWAZE, BOB ENOKHAE  
IKEBUDU, OBINNA NONSO  
MUKHATA, RAMAT  
NKANGA, AKWAUBONG EKONG  
OBUKHWO, MARY  
OKORO, CONSTANCE  
OKORO, OBUTOR IBIFURO  
OKPARAKU, CYNTHIA ADAOBI  
UADIA, CHRISTOPHER  
IKUESAN, TOKUNBO  
KADIRI, MUHAMMED OGOMODE  
ODIASE, LUCKY DIDI  
AIYENUGBA, TOYIN  
AMAECHI, CHIOMA  
BOLAJI, TEMITOPE

**DEPARTMENT OF FINANCE**

**SECOND CLASS (UPPER DIVISION)**

AJAIFIA, REBECCA KESIENA  
OSEKE, PERE LADEI  
OSOLEASE, CHARITY OBEHI

**SECOND CLASS (LOWER DIVISION)**

IMOSEMIE, EFELOKEI RUTH  
ORANU, CHERIVONE CHIDINMA  
AMENECHI, IFY EFEOMON  
IDIAGE, ARINZE DANIEL  
TARGA, OCHUKO

**DEPARTMENT OF BUSINESS  
ADMINISTRATION**

**SECOND CLASS (UPPER DIVISION)**

AGBALAJA YINKA



ALAO OMOTOLA  
AROTIBA OLU DEBORAH  
EGBON EGHOSA  
EHKIOYA ODION G.  
IBAMA G. DAREEGO  
IKHARO HOPE I.  
LAWAL A. GARUBA  
LAWAL S. IBIDEMI  
NWABUOKU PETER CHUKWUNONSO

**SECOND CLASS (LOWER DIVISION)**

MBANUGO EVARISTUS NONSO  
OSHINNEYE OLAREWAJU  
AMOBINONSO  
OGHORADA EMMANUEL  
TESTAN LANCE A.F  
EBENAH TRUST A.  
IBRAHIM RUKAYAT  
AMHED MOHAMMED LAWAL  
NWOKELUE AFAM L.  
EDOSOMWUN ABIEYUWA  
UREVBU VICTOR  
EZECHUKWU STANLEY  
OSAGIE EDOGHOGHO  
SADAT ALIYU BARAKA  
ODUTAN ABIODUN HASSAN  
IBRAHIM M. MOHAMMED  
OKEKE CHINENYENWA  
ADEDAPPO AISIDA M.P.  
ABBI BASILUS A.  
AKPIMEGI EJIRO  
ABBA UMAR FAROUK  
SADIQ IBRAHIM ZUKOGI  
OBICHE ELVIS UGO  
EFFAH EKAETTE U.  
BALOGUN CHURCHILL

**COLLEGE OF ENGINEERING**

**CHEMICAL ENGINEERING**

**SECOND CLASS (UPPER DIVISION)**

FIBERESIMA, IBIEREMBO HANNAH  
IGHORAYE, GILDA AKWEKWE  
OBIANO, JANE  
OHAGWA LYNDA OGECHI  
OMOYA OMOTOSO OIAIDE  
UZODINMA, CHUKWUKA OBINNA

**SECOND CLASS (LOWER DIVISION)**

AKINSANYA, MAYOWA AJIBOLA  
ARO, SUNDAY OLUWATOSIN  
OWOYALE, ELISHA IYANUOLUWA  
UGBOH IJEAMAKA  
ADEYEMO, IDOWU

**THIRD CLASS**

OYEMIKE, FRANK

**CIVIL ENGINEERING**

**SECOND CLASS (UPPER DIVISION)**

MEKWUNYE KENECHI  
NWAOBOSHI CHRISTOPHER

**SECOND CLASS (LOWER DIVISION)**

IKE MORRIS AMANZE

**THIRD CLASS**

SEKIBO OSEMIEBI

**DEPARTMENT OF ELECTRICAL**

**ELECTRONICS ENGINEERING**

**(COMPUTER ENGINEERING**

**OPTION)**

**SECOND CLASS (UPPER DIVISION)**

IPINYOMI TOLUWASE MICHAEL  
ENWUZOR FAROUK ABBAS  
ATITEBI KAFAYAT IFEDOLAPO

**SECOND CLASS (LOWER DIVISION)**

OBI CHIBUZOR CHARLES

**DEPARTMENT OF ELECTRICAL**

**ELECTRONICS ENGINEERING**

**(ELECTRICAL ENGINEERING**

**OPTION)**

**FIRST CLASS**

OYALETOR SAMUEL EBOSETALE  
DJOMA SIDNEY DAFE  
TURNAH AUDREY IYARONIN

**SECOND CLASS (UPPER DIVISION)**

NWOKOAGBARA NNABUIKE  
ANTHONY  
OBIKA CHIAZAWOMEKPERE  
NNAEDOZIE DADSON  
UCHE CHUKWUEMEKA SAMUEL

**SECOND CLASS (LOWER DIVISION)**

ADEKOYA JEREMIAH ADEPEJU  
AKAPO OLAOLUWA OYEDEJI  
EKIUGBO OGHENERUME  
NWAMARA PHILIP ENYICHIYA  
UGOCHUKWU  
IDEHEN OSAHEN  
RILWANU MOHAMMED  
NDAYAKO BABANGIDA IBRAHIM  
OMOIKE AGABUS  
EREWELE EHIMARE  
ARORO FREDRICK FEJRO

**MECHANICAL ENGINEERING  
FIRST CLASS**

HARRY MICHAEL MARSHALL

**SECOND CLASS (UPPER DIVISION)**

ISIUKU CHUKWUEMEKA  
IYITOR CHUKWUNONSO ROBERT  
MADUMERE CHINEDU VINCENT  
OSHENYE SCOTT DIEMIRUAYE  
UKUSARE OGHENERURO DANIEL

**SECOND CLASS (LOWER DIVISION)**

FREGENE IGHOTEGUONO JAPHETH  
ITEGBOJE ISAAC JESUONE  
NMOR IKECHUKWU GODSPOWER  
OKEZE SIDNEY EMEKA  
OWOH GABRIEL CHUKWUMA

**PETROLEUM ENGINEERING  
FIRST CLASS**

AUDU TSEAGA ISRAEL

**SECOND CLASS (UPPER DIVISION)**

ABARI AHMAD MUSA  
BELEFIA ODUADO ESOSA  
DELE-AFOLAYAN EMMANUEL  
OLUSEGUN

OGUNBANJO KAYODE JAMES  
PEPPLE SUNNY LYSIAS

**SECOND CLASS (LOWER DIVISION)**

AJANA OLUWATOSIN OLAMIDE  
MADUABUCHUKWU CHIKEREUBA  
ENRIQUE  
MBOTO TORAYOK ALFRED-ABENG  
NWOKA REXFORD WECHEYANDA  
SOBOMABO  
SAMMY DOUBRA TIMIBRA  
UMEJURU VICTOR AKUCHUKWU  
ZIDAFAMOR TIMI-AREDE  
BENENOGHI

**COLLEGE OF HEALTH SCIENCES  
SCHOOL OF BASIC MEDICAL  
SCIENCES**

**DEPARTMENT OF BIOCHEMISTRY  
SECOND CLASS (UPPER DIVISION)**  
OGBOLE SAMSON OSOLEASE

**SECOND CLASS (LOWER DIVISION)**

EGBAINMO GODGIFT PREYE  
FASHUGBA AZEEZAT OMOBOLANLE

**BS.c MEDICAL LABORATORY  
SCIENCE**

**SECOND CLASS (UPPER DIVISION)**

ADELOSOYE ADEMOLA MAXWELL  
ALFRED UTIBE-ABASI OKON  
ALI RASHID ANTHONY  
EBERECHI CHIMENEM TONIA  
EHISUORIA BLESSING  
ILOABANAFOR REGINA  
KASABA OLUWATOSIN BILIQUIS  
MOMODU SHERIFAT ADEGBODESI

**MEDICINE**

ABORISADE ABIOLA OLAIDE  
ADDOH, OVUOKERIE CHIMNEDUM  
ADEBIMPE ADEDEJI  
ADEKUNLE ADESHEWA  
ADEYEMO TOSIN  
ADUBIARO, YETUNDE ESTHER  
AGOH OJOMA

AJULUFOH, CHIJOKE PAULINUS  
AKINDIPE, REMILEKUN CHRISTIANA  
AKINTAYO, OLUFEMI ADEBIYI  
ALADEBO FADEKEMI  
ALELE, BLESSING KIKELOMO  
ALLISON MODUPE  
ALUKO, YETUNDE OLADAYO  
AMASO, IBIELA LETHUKUTHULA  
ANABA, HONEST IFEANYICHUKWU  
BAKARE, DAVID OLORUNNISHOLA  
BALOGUN, ABIMBOLA FARIDAH  
BASSEY, GODWIN EKAPONG  
BISHOP, JOHN OGHENEHERO  
BOSAH, IFEANYI BENE  
DADA FOYEKE  
DADA VICTORIA OLUWAYEMISI  
DAVID-IGA, IYENEOMIE SOBEREKON  
EDEM BASSEY  
EGEOLU OBIAGERI  
IROGUE EGHOSA  
EKAT, REKPENE BASSEY  
EKWUAZI, A. GERALD  
ELELEGWU, MAGDALENE ISIOMA  
EMEDO HENRIETTA  
EMEH, EZINNE CHINECHEREM  
EME-UCHE CHIMSOM  
EMODI CHINWE  
EMOGHENE EJAETA  
ENYONG UDUAK ITA  
ESEAGWU, FRIDAY ONUWA  
ESO, ASUKPONG EFFIONG  
EWAGBA, ANTHONY MAKPO  
EYITUOYO, HARRY ONORIODE  
FADOLA, SARAH MOKUNFOPE  
GAMI, HILIARY TUMBA  
GARUBA, SAHEED TEMITOPE  
HART, IBIFIRI IBILANYEOFORI  
IHEME, NNAEMEKA WISDOM  
IJEH, CHUKWUNWIKI JOSEPH  
IJIEBOR, EBANEHITA CLARA  
IKEANI, IFEANYI MICHAEL  
ILOANUGO CHINEDU  
IMIRUAYE ELOHOR IRENE  
IRUENABERE OBIENTONBARA  
JAYEOBA, ADEBIMPE BOLANLE  
JERORO OGHENETEGIRI

JIMOH, ABDULRAZAQ  
OLUWAYODIMU  
KASALI, AISHAT BOLANLE  
KPOJIME, DEVE DIANA  
LAWAL, ADEBAYO AZEEZ  
MACAIVER TUNWERE  
MAJIYAGBE TITILOPE  
MGBOJKWE, SANDRA ONYINYE  
MOSES, GLORIA OFUJE  
MOTILEWA ELIZABETH  
NJOKU, IRENE EGHONGHON  
OKORO, PEACE NGOZI  
NNAMANI, IKENNA KIZITO  
NNAMDI ONYINYECHI  
NWANI, SANDRA ORIRE  
NWANKWO, ADAOBI MAUREEN  
NWANZE CHIBUKI  
NWEKE CHUKWUELOKA  
NWILENE, NUKA JULIET  
NWOSU OLISAEMEKA  
OBICHERE, UGOCHUKWU CALLISTUS  
OCHIE UCHECHUKWU  
ODUAH, STELLA ONYINYE  
ODUDIMU, RUTH YETUNDE  
OGBIMI, RICHARD EFE  
OGBUAGU, ADAEZE CHIBUZOR  
OGUNDELE, CY BLESSING  
OGUNSOLA, ATINUKE LATIFAT  
OGUNYEMI OLAYEMI  
OKAO, EDO-ODION SOLOMON  
OKENWA RICHARD  
OKERE, SABINUS CHUKA  
OKEREKE, GRACE CHIDINMA  
OKOROAFOR NNENNA  
OKOYE CHIKELUE  
OKOYE CHIUGO  
OKPOMO BEST  
OKUNEYE, MAYOWA ELIZABETH  
OLADAPO, TOBI GBOLAHAN  
OLAYIWOLA IMOMOT  
OMAYUKU VIVIAN ALERO  
OMODAMWEN ESOSA  
OMUSO WILSON  
ONYEMALU UCHECHI  
OSEN, OLUKAYODE AZEEZ  
OWOLABI, OLABISI JULIANAH

OWOLABI, OMOWUNMI AISHAT  
OZOH IZUCHUKWU  
ROBERT IBELEYE  
SAVAGE OMOBOLANLE  
TABOWEI, IJEOMA HILARY  
TIJANI, OLUWAYEMISI FATIAH  
TILJE, TOCHUKWU ANTHONIA  
USEN, USEN EFFANGA  
UZOEZIE IJEOMA  
ABIOLA MOBOLAJI ADEYINKA  
ACHIMALO NWANDO ONYINYE  
ADEBIYI OREOLUWATOYOSI  
ADEWUSI OLUWATAYO TAIWO  
AGBOOLA OLAMIDE ABIODUN  
AJUYAH ODOYOR RICHARD  
AKEREDOLU FESTUS AYODEJI  
AKINBOHUN BUSAYO  
ANYANWU IKECHUKWU ENYERIBE  
AYO BABATUNDE  
BABALOLA JENYO OLUDAYO  
CHIDO GREG ONYEMA  
DOSUNMU OPEYEMI  
EFEREBO JESSICA SOALA  
EGEDE NGOZI FAITH  
EKAKITIE ESEOGHENE  
EKANEM IMAOBONG EDWIN  
EKPO QUEEN BEN  
EKPUNOBI NCHEKWUBE  
ELEGBA OMODOLAPO  
ELUSOGBON OLUSOLA CHRISTIANA  
ENIAYEWU OMOTOLA OLUBUSOLA  
ESHIET UYAI BENJAMIN  
ESSIEN IMAABASI. EMMANUEL  
EYAMBA – IDEM IDEM  
EZIEKE EMEKA VALENTINE  
FATUNLA TOLULOPE OLADAPO  
IDIAGI OSEIWE VICTORIA  
INYANG INIOBONG  
IPINMOROTI OMOLOLU KAYODE  
IROEMEH ANDREW UGOCHUKWU  
IRUENABERE KALAWORIBO  
ISOKARIARI ORI-IBIOKU  
JEGEDE DORCAS LANNY  
JOMBO SUNDAY GOGO  
MGBUDEM IKECHUKWU  
MIEBODEI BINAEBI

NJOKU CHINEDU RAYMOND  
NWABUEGE DANIEL OKORIE  
OBIECHETON KENNETH OMOIN-  
AREDIM  
OBIRE EJOVWOKE  
OGIDIGBO OGHENERUEMU  
ORODIOME  
OGUNBAMBO ENIOLA WURAOLA  
OJO TEMITAYO  
OKAFOR JOSEPH CHUKWUKELU  
OKEUGO AMARACHI  
OLANIYI OPE-OLUWA  
OMOJOYE FAYOWOLE IROHINAYO  
ONYEKA GOODLUCK  
CHUKUNYEREM  
OPATOLA OYEMUYIWA OLUFOLARIN  
OSADEBAY NNEKA  
OSIKOYA IJEOMA ADERINSOLA  
OSIYEMI OLUWAYOMI  
OTOGO SUSAN  
OVRI OGHAE OGHENE  
SHAKI RIMAMKANATI CHRISTOPHER  
SULEIMAN YUSUF KAOJE  
TANTUA WEBE ETUATON  
UGBOMAH IFEOMA  
USIKALU, OLATOMIWA OLUMIDE  
UWAGBOE OMORUYI  
AJIBOYE OLUDARE JAMES  
CHIGBU CHIDINMA  
OGUNDIPE OLAWALE ABIMBOLA  
ADEBAJO OLUSOLA MARIAM  
ADELAIYE JOACHIM KOREDE  
AJAYI ABISOYE TOWUROMOLA  
ANWANA MARGARET OYOFUKUNYI  
AYANWALE OLUWAREMILEKUN  
DADA OLUWASEYI AISHA  
DIKE EZINNE AIMEE  
DOGINI KINGSLEY UMA  
EKENNA CHISOMJE OZIOMA  
EKEUGO UCHECHI CHIZOMA  
ELUKPO AKAMSOKO  
ETOK UNYIME ALOYSIUS  
EWUZIE NNENNIA FUNMI  
FAGBOHUN BUNMI TEMILOLA  
FASANMI IFEOLUWA ADEBAMBO  
FAWOLE FOLUSO MARY

IBRAHIM MADINA ABUBAKAR  
IDRIS SHEHU DABO  
NWANKWO ADAORA LINDA  
NWEKE EKENE UDOKA  
NWOSIBE OLUCHI  
ODEBEATU KEN ALOCHUKWU  
OGBEIDE IDIALU PRECIOUS  
OGHENEKOHWO EGURIASE DOMINIC  
OGUNSOLA OLUWAMAYOKUN  
TEMITOPE  
OKAFOR CHUKWUDI SOLOMON  
OKE ROTIMI AGBOOLA  
OKORIE CHINEDU OBINNA  
OKOYE NKIRUKA PERPETUAL  
OKPORU TOMBRA  
OLASOLOMON OLUWAYEMISI  
OLIKO CHUKWUMA MALCOLM  
OLOWO AYINLA AFEEZ  
OMOKARO REBECCA OSAYIMWEN  
ONWORDI MARIAN  
ONYEGEGBU ONYENUCHEA  
KATHLEEN  
OSAMAGIE OSAROBOMWEN EHI  
OTI FLORA IJEOMA  
OWOSEN OMOTAYO  
TETENTA ELIZABETH IBIWARI  
UKPAI STANLEY IDIKA  
UMENNADI NJIDEKA PEACE  
UTTAH IMAOBONG MATTHIAS  
YAKUBU YILLUMA LARABA  
OKAFOR UCHENNA INNOCENT  
OMOLOLA RAPHEAL  
OGWUCHE GODFREY OCHE  
ABDULLATEEF NAFIU  
ABIKOYE DEBORAH FEHINTOLA  
ABODE IMOUKHUEDE DAVID  
ACHINEWHU IGWENZI CHITURU  
ADEAGA TIWALADE  
ADEDEJI AYOKUNMI TOSIN  
AGBONAVBARE MOSES  
AIBAOGUN OISEOJEI  
AINA KEMISOLA ESTHER  
AJIBOYE TOLULOPE  
AKANDE ADETOKE  
AKINBAMI ADEDOLA ABDULAFIS  
AKINPELOYE OLUWAFEMI

AKINSETE BABATUNDE AYODEJI  
AKPAN OFONIME ANIEDI  
AMAMIZE UNOMA J.  
AMINU NUSIRAT AINKE  
AMROMANO IROREVWO SOLOMON  
ANI IYAMBA NNEKA  
ASUQUO ENOCH FRANCIS  
BABALOLA MATHEW AYODEJI  
BOLUMOLE OLABIMPE NINIOLA  
CHIBUEZEOKE CHIDERAA NOELLA  
EBOCHUE CHIGOZIE NEIL  
EFOGHE BENEDICT  
EGERUAN IZZY SAMSON  
EHIMA EWERE  
EHIZIBUE FRANCIS EBOSAREME  
ENOH GODFREYA.  
ERIYAMREMU OGHENE-REONKE  
ERUEMULOR CHIBUZOR CYNTHIA  
IBRAHIM SADIAT ABIADE  
IDAHOSA OSATOHANMWEN  
AGHALELADIA  
IGAH SOTARI  
IHENYEN EROMOSELE  
IKOGHO OVIE  
IKUESAN OLUWAYEMISI OLUWASEYI  
IKURU UGWEN BERTRAM  
IKUSEEDUN OLUGBENGA  
INYANG EMEMOBONG  
INYANG INIOBONG EDUEK  
ISIKI ERICA  
ISOBARA IFIOK UDO  
ITIAT, IMAOBONG EMMANUEL  
JAMABO TAMUNO DIEPIRIYE  
JOBARTEY KACHIKALLY MONICA  
NJOKU EDWARD IKECHUKWU  
NKEMCHOR LAWRENCE ONYEKA  
NWACHUKWU DOZIE  
NWALI ONYEKA  
NWEKE CHINWENDU FRANCES  
NWODIKA CHIKA NWANNEKA  
NWOSEH THELMA OBY  
OBANOVWE CLARENCE EFEMENA  
ODUAH EZE PHILIP  
OFFICE AUGUSTINE  
OGBONNA APUGO WILLIAMS  
OKAFOR IFEOMA CYNTHIA

OKOYE NGOZI JOY  
OLADOGBA EBENEZER SEHINDE  
OLADOSU OLADAPO AFOLABI  
OLASANOYE OLULOLA  
OLUSANYA DAVID AYORINDE  
OMOLERE OMOTAYO TOLULOPE  
OMOREGIE OSAYUKI VIVIAN  
ONYEAGHOR SAMUEL OGEN  
OREYOMI ATINUKE ABIMBOLA  
OSAGHIE FERVENCY NOSAZE

**BS.c NURSING SCIENCE  
SECOND CLASS (UPPER DIVISION)**

ANYANWU, LINDA UCHECHI  
BASSEY, ROSEMARY UKANA.  
IDOWU OLUFUNMILAYO DOLAPO  
ADEYEMI ABIMBOLA ENIOLA  
OJO CECILIA OLABIMPE  
OLAYEDE BOSEDE ABIGAIL  
OMOREGBE FAITH  
OSARO SARAH BIBIRAH

**SECOND CLASS (LOWER DIVISION)**

IGBINOVIA, HOPE ERONMWON  
IYABOR, CHARLES UYIOSA  
OGUNJUYIGBE OLAPEJU OLUFUNKE  
OMORODION, ISOKEN BECKY

**DEPARTMENT PHYSIOLOGY  
SECOND CLASS (LOWER DIVISION)**  
IHEMEKWELEM SAMUEL CHUKWUDI

**OBA EREDIAUWA COLLEGE OF  
LAW**

**FIRST CLASS**

ADAMS TOYAKI NOSA  
AGU CHIOMA CHIKA  
NWANOLUE OGWONNA OBIAMAKA  
SOFOLUWE OLUWADAMILOLA  
OLUWATONI  
ONYEMA OBI ADAMMA IJEOMA  
USOH-ABIA MOSES OKON

**SECOND CLASS (UPPER DIVISION)**

AGUEBOR PRECIOUS ISOKEN  
AKHIGBE VIVIAN EFEMEN

ALI ISALAH IZUCHUKWU  
AMIENGHEME OSEDIAME JOSHUA  
ANDU ADEDOYIN AISHA  
ANYANWU NKIRU  
AWOJINRIN SAMUEL BOLAJI  
BELLO LYDIA BIODUN  
CHINDA KINIKACHI ELEWAH  
DANLADI JANE  
EFFIOM ANIEFON ITA  
EJIOFOR ZIKORA IJEOMA  
EKANEM EMAEYAK RICHARD  
ENEGBE EMI  
ENISAN ODUNYEMI BUKOLA  
EZE RUTH CHISOM  
EZENNIA ADAORA YVONNE  
FAGBIYE OLUWATOYIN RITA  
IBEANUSI JUSTICE EZENWA  
IKUENAYO OMOTOLA FRANCA  
ITIMA IYOROEBI VERA  
IWUNZE OGOCHUKWU TINASEM  
JAGUN JUMOKE ZULEEHAT  
JEKADA KUZAYET COMFORT  
JULIUS-AKAHOMEN ONOSETALE  
ESEOSA  
MANAGER FUN-YEI  
MOMODU HAFSAT AFIE  
NARON NAANTOEGOER MAGDALENE  
NDANUSA FATIMA SONIA  
OCHONOGOR UGOCHUKWU  
PRECIOUS  
ODIA LINDA UWA  
ODIGIE IVY OSASUMWEN  
OGUNMODEDE BERNICE  
OLUWATIMILEHIN  
OKPALUGO ADAORA  
OKPOUDHU UZEZI  
OLAGUNJU IDRIS AKINOLA  
OLOGURE CHERUB MOJISOLA  
OMOZUSI ADESUWA NKEM  
ONUORAH ADA AMY  
ONWUGBUFOR OGECHUKWU  
NKIRUKA  
OROVWUJE OBOGHENEME VWA  
MERCILLINA  
OSADIAYE ADESUWA EDNA  
OSIGWE LOTANNA CARMINUS

OYENEYIN BOLARINWA  
OLASUNKANMI  
SHEIDUN SHOLA  
TINUBU OMOWUMI ABIMBOLA  
UGWU BIBIAN NDIDI  
USMAN SADIYA  
UZOUKWU PRINCEWILL NNAMDI

**SECOND CLASS (LOWER DIVISION)**

ABOABA ABIODUN AYOOLA  
ADEBIMPE KAFILAT YETUNDE  
ADEBIYI ADEFEMI ABAYOMI  
ADUN FELICIA ENIYE  
AFOEGBA DIANNE TAMARADOURA  
AGAI BLESS EBITARE  
EKIUGBO VERERE OLUWAFEMI  
AKINDELE OLUWAFIMISADE AJOKI  
AKINYERA FUNTO OLUBUKOLA  
ALAOFIN RUTH OLUBUSOLA  
ALBERT HAPPY IYOBOSA  
AMADI ANITACHIGOZIN  
ATOYEYI DAVID OLATUNJI  
AYENI ESTHER OLUTOYE  
AYUWU SUSSANA LUCKY  
BABASOLA ABIMBOLA TITILAYO  
CHINDAH CHIMENEM TONIA  
DAHUWA HANIFA SALIHU  
DAPO-FILANI ADESOLA MONISADE  
EBUBECHUKWU CHIKA ADA  
EZEGO CHIDINMA NORAH  
IBIENE IBIEREFAGHA HAMLET  
IBRAHIM MOHAMMED SOSA  
IBORDOR OVIE MAGNUS  
IRUH MIRIAM ONYEKA  
JOHNSON BOLUTIFE OPEYEMI  
ODEGBAMI ABISOYE FRANCES  
ODELISON LAURA  
OGAR SUSAN ALU  
OGUNNEYE OLUWASOLAPE  
OLUWAFISAYO  
OSUAMKPE OSOMUKUME  
EMMANUEL  
SALIU HAUWA EMESO  
UDOH OKWONG MOSES  
WARRIE INIYE DEBORAH

**COLLEGE OF NATURAL AND  
APPLIED SCIENCES  
DEPARTMENT OF BIOLOGICAL  
SCIENCES (MICROBIOLOGY)  
SECOND CLASS (UPPER DIVISION)**

BELLO OLUWATOSIN KAFAYAT  
BONN-OHIAERIAKU SALLY  
EPELLE BOMA JEREMIAH  
NKWONTA IFEANYI DAVID

**SECOND CLASS (LOWER DIVISION)**

AIGHOBAHI ABIEYUWA PEACE  
AKHAMIE QUEEN AKUS  
AMAGWULA ISABEL UCHECHI  
DURUIHEOMA UCHEACHI NJIDEKA  
EDUGBO ONOME MAVIS  
ESHABUKO ELOHOR  
LIVINGSTONE BELYNDA AMY  
NEZIANYA-UCHE AWELE  
OCHEMEH MAIMUNA ELLAKECHE  
ODUAH PRISCILIA ONYELUKA  
OJEI OBIAGELI NICOLE  
OKOH BLESSING ODIKAUSE  
OKOYE BLESSING VIVAIN  
OKUNRINBOYE ADEWUNMI  
TOLULOPE  
OSAGIEDE OSAYANWAMBO VICTORY  
SAIDU ABDULL-AZIZ  
UMEAKA MIRACLE CHINECHELUM  
UGBINE REUBEN JESSICA

**DEPARTMENT OF CHEMISTRY  
SECOND CLASS (LOWER DIVISION)**

LAWAL, SHEFIU  
OLAWOYE OLAWALE

**DEPARTMENT OF COMPUTER  
SCIENCE**

**SECOND CLASS (UPPER DIVISION)**  
ANUSIONWU OBIAGELI VALERIE  
NNAJI ANITA CHINYERE  
ODEMWINGE HARRISON  
OSULA IMIEFAN LARRY

OSULA JUDE OSARETIN  
ENEBELI MARGARET IFELUNWA  
EGUAOLE LYNDA CHARITY

HON CALEB TERWASE  
IBRAHIM ABIOLA LAWAL  
IHEANACHO WILSON FEMI  
CHIZURUM  
NTUNGWE TERENCE NZUME  
OBILEYE OLUFUNKE OLAJUMOKE  
OJOMO ERIC IMARIAGBE  
OYARONBI ADEGBOLABO  
OLADIPUPO

**SECOND CLASS (LOWER DIVISION)**

ABBAY-HART TUMINI TAMONUA  
REGINALD  
ABEL PREYE PRECIOUS  
ADA'U MU'AMMAR ISAH  
ADESINA BRIDGET SIDIKAT  
ADESEMOWO ADEKUNLE  
OLUWADAMILOLA  
ADIELE CHIKEZIE GODSON  
ADUMANU JANE CHIDINMA  
AKERELE ANDREW OZEIVO  
AKINBANJI DAYO  
AKPAH CHRISTAIN  
REUBEN MIDOSEBA LIVINGSTONE

ADEFISOYE, ADEOLA  
ADELOYE, OLUWATOYOSI ADEBOMI  
ADESIDA, ADEKEMISOLA BRIDGET  
ADESINA, GLORIA ADEBUKOLA  
ADEWUSI, OLUWAKEMI  
OLUWAFUNKE  
ADEWUYI, OLAYIWOLA SAMUEL  
AGBASIMELO, EBUKA BENJAMIN  
AJAKAIYE, OLUWATOYOSI  
IYANULOLUWA  
AJAKAIYE, KEHINDE AMOS  
AJAYI, OLUWATOSIN GIFT  
AKINPELU, OLUWOLE ADEDEJI  
AKINSO, DOLAPO DAMILOLA  
AKOSILE, KABIR OLATOKUNBO  
AKUE, EHINIOMEN BENEDETTE  
ALADUM KOZURU CHIDIEBERE

ANANA FRANKLYN IKECHUKWU  
IFIETEKHAI EMIKE  
EKPA AYAKOB IME  
EWEKA PRINCE OSAYABAMWEN  
IBENEME DANIEL UCHE TEMITOPE  
IJALUWOYE ADEYINKA EMMANUEL  
IHUOMA HENRIETTA ADANGOZI  
IMOLOAME OBEHI  
JERRY KALU CHIDINMA  
JOLASINMI AKINDEJI  
MADUKA TOCHUKWU MICHAEL  
MATHIAS ALASUONYO NYENYE  
NWANKWO CHINENYE SOPHIA  
NWOSU IFEOMA JENNIFER  
OBI IFEANYI SUNDAY  
OGBONNA OGECHI CHIZUA  
OGOBA DAKURO  
OGUH CHUKWUEMEKA GERALD  
OJEALARO MICHAEL  
OJIMAH AKELACHI MICHAEL  
OLANIREGUN TOSIN  
ONYA CHIDI  
ORUAMEN THEODORE PRECIOUS  
ORUWURU ORITSEWEYINMI  
OSARETIN HOPE OSAYI  
OZORI TIMIPAH KRISTINA  
UKATU LOTANNA COLLINS

**COLLEGE OF PHARMACY**

ALUKO, TEMITOPE LOVE  
AMAH, AMARACHI EUCHARIA  
CHINEDU  
AROTIBA, FOLASADE MARGARET  
ASHIRU, AYOTOMIWA  
ATANDA, LATIFAT ABIDEMI  
AYOGBE, NNEKA RITA  
BUHARI, ZAINAB MODUPEOLA  
CHIOKE, CHIOMA UDOKA  
EDU, EWEZU AUGUSTINE  
EJIOFOR, CHUKWUEBUKA LOTANNA  
EKEFRE, EDIDIIONG NSE  
EKENG, JOSEPHINE NSA  
EMENIKE, CHINWENDU FELICITY  
EMILI, ONYINYE DAVINA  
ERUCHALU, OBIAJULU  
EZEJIAKU, CHIDOZIE IKENNA



EZIKE, KENECHUKWU STANLEY  
 FALEYE, YEWANDE OLAMIDE  
 FAMOYE, OLUWASEYI COMFORT  
 IGIEBOR, JACOB JOEL OSAS  
 IKWEBE, ORI HELEN  
 ILECHUKWU, CHIOMA EUCHARIA  
 JAJA, FLORENCE ISAAC  
 KALU, IFEANYICHUKWU ORJI  
 LAZARUS, INIMOTIMI JULIET  
 MAKARABA, SUCCESS ANTOROFA  
 NGENE, NONSO OSCAR  
 NJOKU, EZINNE LINDA  
 NWACHUKWU, OBIAGELI GERTRUDE  
 ADAKU  
 NYA, ASUQUO BASSEY  
 OBIAKO, SOMTOCHUKWU OBIANUJU  
 ODEH, OMOROVBIYE CYNTHIA  
 ODIBEI, JANET IFEYINWA  
 OFOYENO, ESANYE TINUKE  
 OJO, OUWASEYI VIVIEN  
 OKHIONKPAMWONYI, OSADOLOR

FATILE, IFEOLUWATAYO BABAYODE  
 IFEBIGH, JENNIFER CHIDINMA  
 OKODUGHA, AGBOMERELE JOAN  
 OKOLI, CHINAZA GOODNESS  
 OKORO, VALETINA  
 OKPORU, OYINBRAKEMI  
 OKWU, PHILIP OKENWA  
 OLAKPE, JENNIFER ELO  
 OSEMWEGIE, ESEOSA  
 OSUIGBO, EVANGELINE ONYINYECHI  
 OYERINDE, ADEJUMOKE ALICE  
 SHITTU, BASIRAT ADETOMILAYO  
 TENDE, ELIZABETH  
 UDOFIA, MFONOBONG MONDAY  
 UGORJI, GILDER UDOKA  
 UKOJI, QUEENETT  
 UMEBUANI, DONALD ARIZECHUKWU  
 UMENNADI, OGECHI FLORENCE  
 UZOH, IJEOMA CYNTHIA

### 2012 DEGREE ANALYSIS

S/N	COLLEGE/DEPARTMENT	1 <sup>ST</sup> CLAS S	2 <sup>1</sup>	2 <sup>2</sup>	3 <sup>RD</sup>	PASS	TOTAL
1.	<b><u>POST GRADUATE STUDIES</u></b>						
i.	Doctorate Degrees	-	-	-	-	-	11
ii.	Masters Degrees	-	-	-	-	-	32
iii.	Post-Graduate Diploma	-	-	-	-	-	2
2.	<b><u>ARTS &amp; SOCIAL SCIENCES</u></b>						
i.	Economics & Development Studies	2	24	16	-	-	42
ii.	English	-	2	-	-	-	2
iii.	Geography & Regional Planning	-	3	4	-	-	7
iv.	International Relations & Strategic Studies	2	9	15	-	-	26
v.	Mass Communication	5	28	15	-	-	48
vi.	Political Science & Public Administration	1	5	13	-	-	19
vii.	Sociology & Anthropology	-	6	5	-	-	11
viii.	Theatre Arts	-	-	2	-	-	2
3.	<b><u>BUSINESS &amp; MANAGEMENT STUDIES</u></b>						
i.	Accounting	1	21	19	-	-	41
ii.	Finance	-	3	8	-	-	11
iii.	Administration	-	10	25	-	-	35
4.	<b><u>ENGINEERING</u></b>						

i.	Chemical	-	6	5	1	-	<b>12</b>
ii.	Civil	-	2	1	1	-	<b>4</b>
iii.	Computer Engineering	-	3	1	-	-	<b>4</b>
iv.	Electrical/Electronics	3	3	10	-	-	<b>16</b>
v.	Mechanical	1	5	5	-	-	<b>11</b>
vi.	Petroleum Engineering	1	5	7	-	-	<b>13</b>
vii.	Food Science & Technology						
5.	<b><u>HEALTH SCIENCES</u></b>						
i.	Biochemistry	-	1	2	-	-	3
ii.	Nursing	-	8	4	-	-	12
iii.	Medical Laboratory Science	-	8	-	-	-	8
iv.	Physiology	-		1	-	-	1
v.	Medicine	-	-	-	-	-	297
6.	<b>LAW</b>	8	49	34	-	-	89
7.	<b><u>NATURAL &amp; APPLIED SCIENCES</u></b>						
i.	Biological Sciences (Microbiology)	-	4	21	-	-	25
ii.	Chemical Sciences (Industrial Chemistry)	-	-	2	-	-	2
iii.	Computer Science/Information Technology	-	13	38	-	-	51
8.	<b>PHARMACY</b>	-	-	-	-	-	70
	<b>TOTAL</b>	<b>24</b>	<b>218</b>	<b>253</b>			<b>907</b>

**LIST OF GRADUATING STUDENTS – 2014/2015  
DOCTORATE, MASTERS AND POSTGRADUATE DIPLOMA  
Ph.D Law**

ALFRED ADHULIMHEN IYOHA

**Ph. D Accounting**

BESHIRU SANUSI

JOSIAH MARY

ALI-MOMOH OLUWAYEMISI BETTY

ISIAVWE DAVID TAIWO

**M. Sc Business and Management Studies**

EKIENABOR EHIJIELE

EMOKARO MICHAEL IGIE

IMUZEZE EREKPITAN OBEHI

**M. Sc Political Science and Public Administration**

OMORU AKPOSHER EDEFE DAVID

**GRADUATING STUDENTS (UNDERGRADUATE ) – 2014/2015**

**COLLEGE OF ARTS AND SOCIAL SCIENCES**

**DEPARTMENT OF ECONOMICS &  
DEVELOPMENT STUDIES  
FIRST CLASS HONOURS  
NWANZE JOSEPH**

**SECOND CLASS HONOURS (UPPER  
DIVISION)**

AJISAFE KABIRU  
AKUBOR ANITA  
ASEMEBOR VICTOR IPALIBOR  
CHIESHE VITALIS  
EKERETTE EZEKIEL PRECIOUS  
ELETU OWOLABI MUHAMMED  
GIWA OLANIKE SEFIYAT  
KIRIKI ERNEST  
MOHAMMED YUSUF  
OKPA NYIME-ATE OKPA  
ULASI CHINELO  
UMEOZULU CHILOZIE MARTHA  
YORLUE BLESSING

**SECOND CLASS HONOURS (LOWER  
DIVISION)**

DRESSMAN GODSPOWER  
EKINE LINAH  
MANGUE EDU-MAYE ANASTASIA  
NWAGWU CHIKA  
OGBETA EMMANUEL  
SABO USMAN SIKAS  
WILLIAMS EBIBOKEKIMI  
ABDULLAHI AHMED  
OGUEJIOFOR FRANKLIN

**DEPARTMENT OF ENGLISH  
SECOND CLASS HONOURS(UPPER  
DIVISION)**

BEGRY, SAMUEL AKPO-EBI

**SECOND CLASS HONOURS (LOWER  
DIVISION)**

AFAH, JEFF BRALATEI  
OGUNOYINBO, ADOUEMI EMIFE  
PAMOTEI, BIGHA FAMOUS

**DEPARTMENT GEOGRAPHY AND  
REGIONAL PLANNING  
SECOND CLASS HONOURS (UPPER  
DIVISION)**

NWACHUKWU, CHINASA KINGSLEY

**SECOND CLASS HONOURS (LOWER  
DIVISION)**

MADUBUNYI, IKECHUKWU

**INTERNATIONAL RELATIONS AND  
STRATEGIC STUDIES  
FIRST CLASS HONOURS**

SOLOMON FAITH OLUAMACHI  
MACAULLEY IDAHOSA  
OKORO CHARLES

**SECOND CLASS HONOURS (UPPER  
DIVISION)**

ULASI IJEOMA MALBY  
JOHNSON AYODELE-WOLE  
OSEMWENGIE PECULIAR  
KEMINI DOUBRA  
ASUAI WILLIAMS

**SECOND CLASS HONOURS(LOWER  
DIVISION)**

AYEMAYE PEREKIMI  
ARIHI NGOZI  
ADEDAYO FUNMILOLA  
DENWARI KINGDOM  
EMMANUEL JUNIOR  
EBU ANGELA  
ELIJAH RITA IME  
FORD HARRY  
HUSSAINI NASIR  
IDEPE EKORIMOTIYEMO  
JOLOWO IYELAGHABO  
KUNOUN OLAERE  
LOKO WOKENIMIYEN  
ONYEKWERE GENTLE  
NWAIWU CHINONSO  
OKARA PREYE  
UYAKUMOH EMMANUEL  
OLOFUA SUSAN  
EKUBO KENNETH

**THIRD CLASS HONOURS**  
EPERETUN EKOWEI G

**DEPARTMENT OF MASS  
COMMUNICATION**  
**FIRST CLASS HONOURS**  
CLEVER ALAWARI

**SECOND CLASS HONOURS (UPPER  
DIVISION)**

IBE-VALENTINA IBETE  
RUFUS CYNTHIA  
OGUAFOR, AMANDA IFEOMA  
OMOROGBE ESTHER  
GIBERT ARUMNO IDEKI  
SANAMI DIETE KEN  
METELEWA BOLA  
AMADEIN, TOBOULAYEFA JENNIFER  
EZETU DIVINE YINLAYEFA  
EBIWEI PRECIOUS  
MADUME, JOSEPH BOULDILON

**SECOND CLASS HONOURS (LOWER  
DIVISION)**

BONNY, FIKESE PATRICK  
EVUGHAE JUBILEE  
ITURU JOY  
ISAIAH, ANDREW POWETEI  
DAVIES INI-OBONG JEREMIAH  
AYESAN, PRINCE  
SANAMI STEPHEN  
ADOLPHUS CATHERINE  
JEMINE, EMMANUEL KESTIM  
OJO AUGUSTINA MAFI  
ZEBLON, SAMUEL  
ISAAC EBIELATEI  
LOKO DINBAIKIYO ISAIAH  
NAWERI VINCENT  
EBIWEI, JERUSALEM JERRY

**THIRD CLASS HONOURS**  
DICK, GIFT SIYA  
IBANICHUKA IBUNGE  
JONATHAN WISDOM

**DEPARTMENT OF POLITICAL  
SCIENCE AND PUBLIC ADMIN.**  
**FIRST CLASS HONOURS**  
ATIGBI, EOZUSIN FREEDOM

**CLASS HONOURS (UPPER DIVISION)**

EKIKI, AKPOFI DANIEL  
ITIKPAN, DAVID OJUWERIA  
JEMINE, PERETUN JUSTIN  
LARODO, ADELEKE SIMIAT  
OBETEN, EWA DAVID  
OLOTU, SUNDAY EDEKPEVWE  
TIEBEBEDIGHA, SYLVESTER  
UBEBE, POWEI ZACCHEUS

**SECOND CLASS HONOURS (LOWER  
DIVISION)**

ABEDNIGO, SAMUEL EBIWO  
ABOYEWA, AGALI AGABRA  
ABOYEWA, PEREFAGHA DARILUS  
AJUBE, ERNEST  
ALORO, FELIX  
ALORO, PATRICK  
ANIFOWOSE, BAYO  
BAMA, POWEILA  
BINIGBOLO, EBIERIN FAMOUS  
EKPO, TOM ABASIFREKE  
ELEMI, DENGHA  
KEKEMEKE, INEREIKUWEI  
KONBOFA, LILLIAN ERESINTEI  
MEBINE, WINNIE DENBOFA  
MISREAL, AGABRA ILUYEMI  
MONE, FAMOUS MAJEI  
NADE, GENEROUS  
NANAOPIRI, MONDAY  
NANAOPIRI, OTEGHA  
NSUGA, ELA MARIA  
ODODO, RAYMOND  
OFEYE, ALEX KIMIPAMINI  
OKEREKE, CHINEDU  
ORUAPALA, BRAVE BEN  
OSAH, MARTINS  
OZETO, KASIMU MUNIRU  
PAMOTEI, AWOO WORISUWOTEI  
PAMOTEI, KENNY  
TAMARAUDENYEFA

SAMAGBEYI, KEHINDE BEN  
SHISHIMA, TERHILE  
UGEH, UYAKHILETEI GOODLUCK  
UKPEKE, IKIYOUTIYEMO  
USMAN, YARIMA  
YAYU, ODEINMINI  
YAYU, SMART  
YINGI, SANDRA

**SECOND CLASS HONOURS (UPPER DIVISION)**

ANYA, DORCAS UZO  
JACOBS, RUTH UDOEZI  
KEMBI, STEPHEN BIATERE  
USMAN, GIDEON DADA

**SECOND CLASS HONOURS (LOWER DIVISION)**

CLEMENT, ONENGIYE-OFORI  
DAHUWA, IMAMU  
GEORGE, MARHAYES  
OYINBO, TIMIBRA JUSTICE  
STEPHEN, SUOYO

**DEPARTMENT OF THEATRE ARTS  
SECOND CLASS HONOURS (LOWER DIVISION)**

ADIGWE, FAVOUR OROMINO  
IWABI, KIRITEI SYLVANUS

**COLLEGE OF BUSINESS AND  
MANAGEMENT STUDIES  
DEPARTMENT OF ACCOUNTING  
FIRST CLASS HONOURS  
OKEKE PRINCESS CHISOM**

**SECOND CLASS HONOURS (UPPER DIVISION)**

AMOS DAMINI PEACE  
BRAIDE GO-OPA  
IMUWA EVELYN OMOSIGHO  
IYOGUN IKOGHENE DIVINE  
NWOKELE SYLVIA CHINAZO  
OKOROBOH GOODNESS EBINATEI  
OGEDEGBE IMUETINYAN  
SORIWEI WARILAMINU  
UGORJI JUSTINA

**SECOND CLASS HONOURS (LOWER DIVISION)**

ADEINBU GOODLUCK  
AMOS WORIWYOINPRE JONATHAN  
UMORU EMMANUEL OSI  
OGBEBOR LEO  
NAZIFI MIJATABA UMAR  
OWI GLORY PETER

**DEPARTMENT OF BANKING AND  
FINANCE**

**SECOND CLASS (UPPER DIVISION  
EFEDUE SIDA BLESSING**

**SECOND CLASS (LOWER DIVISION)  
MADUBUIKE PRINCE**

**DEPARTMENT OF BUSINESS  
ADMINISTRATION**

**FIRST CLASS HONOURS  
MOHAMMED IZE FARIDAT  
THOMAS JEMIMA FOLARANMI  
OTARU HAPPINESS MAYOWA**

**SECOND CLASS (UPPER DIVISION)**

EBIBAI AMINA STEPHEN  
EBUTE JESSICA ENUWA  
JOHN ISAIAH PHILIP  
JONAH SALOME  
OGO SIMEON ESIMOKUMO  
OMONZANE ESTHER EDEGHONGHON  
SOMPRES PETER TARI  
UMAR TIJANI MOHAMMED

**SECOND CLASS (LOWER DIVISION)**

ABISERE ISETEI ERIC  
ANIGILA NATHANIEL  
ATUIN GIFT AZIBAYE  
BINABO OYINTUAPERERE NESTOR  
CHINEKEZI CHIGOZIRIM  
EBITARI FRANCA  
IHIONU CHINAZA PRISCILLIA  
INDIA TOMBRA  
ISERE BLESSING INIEMIEKUMA  
JEDAH JOHN EBISINTEIWEI

OJITE CHUKWUJNIKI BENJAMIN  
OKORI ELIJAH EBI  
OMOYOLOYE AYINDE  
ONUH ANSELEM DANJUMA  
PIUS ELIJAH JOY

**OBA OKUNADE SIJUWADE  
COLLEGE OF HEALTH SCIENCES  
SCHOOL OF CLINICAL MEDICINE**

ABARI MUSA ABDULLAHI  
ABIA ISRAEL MFON  
ADAGA ADA  
ADESANYA TITILOPE CATHERINE

ADETAYO ADETUTU  
ADEYEKUN KOLADE MICHAEL  
ADEYEYE STEPHEN OLOYEDE  
AKEWUSOLA FAUZUDEEN KEHINDE  
AKINGUNOYE ADEBAYO  
ALLELN OSABIYI OYINDAMOLA  
AMUTA LILIAN OLUOMA  
ANAGHRA CHINENYE SHARON  
ANTHONY ITORO PAUL  
AWARITOMA NYEROVWO NELLY  
CHUKWUDEBELU CHIBUIKE KIZITO  
CHUKWUMA NNAEMEKA NKEM  
EBIRERI EJIKO LAURYN  
EFENURE UZOAMAKA UFUOMA  
EGHWUBARE OGHENEVWOGAGA FAITH  
EKE IZOGIE OSARO  
EKWE JULIET  
EMEGHEBO NNEKA DESTINY  
ERINFOLAMI WEMIMO CHINYERE  
EYIBE MICHAEL  
FASUA AYODEJI  
FIRI PRECIOUS  
FUWAPE TEMILOLUWA ADEOLA  
IGHILE IKPONMWOSA SHERIFAT  
IKE NKEMKA OLISA  
ILIYA JOEL JINOM  
ILLAH-WILLIAMS OZEMEOYA PHILIP  
IROWARISIMA TAMUNOIBUOMI  
ISHAKA DAVID OKEIMUTE  
IWUEZE OKECHUKWU MARK  
JEBE ADENIKE OMOTAYO  
KONYEBAGU OSANEBI RAPHAEL  
NWEKE ARINZE CHIZOBAM

NWOBI CHINYENDU JOYCE  
NWOKELOE ELOCHUKWU  
NWOSU HENRY CHUKWUEMEKA  
NZERIBE MIRIAMA CHIOMA  
OJEAGA VICTOR OJEABUO  
OKPO ERNEST ETIM  
OLANREWAJU TOLULOPE OLADIMEJI  
OMEFE EBELE OSADEBE  
OMOLE VICTORIA IYANSE  
ONAADE OLUWAFEMIFOLA  
ONU PETER KINGSLEY  
UKPONG OBONGANWAN MBAKARA  
UMAR AJIMASE ABDULRAHAMAN  
UYIGUE DEBORAH ADESUWA  
IMOFEN FRANCIS IDEMUDIA  
OKAGBUE EMEKA CHUKWUDI  
OKURUME CHRISTOPHER  
UMMUL- KHULSUM ISA YELWA  
UZOECHIMA NNAEMEKA CHIBUEZE  
DAILA OBINNA  
ILOABACHIE MICHAEL  
ONONGUEKHIAN HARMONY OSEZUA  
OSUNBOR OGHOGHO EFOSA  
TUNYAN TIMI KARINA  
MUHAMMADE BASHIR MARU  
NWACHUKWU GERALD  
UZOEWULU KENECHUKWU MOSES  
ESEDUME VICTOR AZUKA  
ETUK EDIDIONG OROK  
IBIKUNLE OLUSEYI GABRIEL  
NWEZEH VINCENT AFMA  
OMANO ALLWELL EMENIKE  
ALLEN OSABIYI OYINDAMOLA  
FASUA AYODEJI ANTHONY  
ONU PETER KINGSLEY

**DEPARTMENT OF NURSING**

**FIRST CLASS HONOURS**

ENIKANSELU, OLUWABUNMI  
BLESSING

**SECOND CLASS (UPPER DIVISION)**

OLAJIDE, OLUWAYEMISI  
SALIU, ABIOLA AMINAT  
TAIWO, BUSOLA OLOLADE  
AKERELE, OLASUMBO ADEBOLA

AMADI, ADMANDA KEMDIRIM  
NDULUE, NDIDI DORATY  
LAWANI AYOMIDE COMFORT  
ADEGBITE, ELIZABETH TIMILEHIN  
UMEOZULU, CHISOM VIVIAN  
OBE, OLUWASOGO RACHAEL  
CHIKE, BENEDICTA  
LUKMAN, ZAINAB MOHAMMED  
IKUJUNI, OMOLARA ADENIKE

**SECOND CLASS (LOWER DIVISION)**

SOBIJOH, LETIMI SUCCESS  
BAKARE, OLADIPUPO ABIODUN

**COLLEGE OF LAW**

**FIRST CLASS HONOURS**

ANANUM, IYORPENDA  
NWOKOMA, SAMPLE ADAKU  
OKPESEYI, OLATUNBOSUN  
YANYANGBINI, PERE ERIC

**SECOND CLASS HONOURS (UPPER DIVISION)**

ABDURRAHMAN, MAIMUNA  
ADEMUWAGUN, ADEOLA  
AGAJERE, UFUOMA EMMAMUELLA  
AKEN, MERCY MAMA  
ALANI, PEJUOLA ZAINAB  
AMADI, DANIEL CHIBUZOR  
AMIFOR, PRISCA CHINONYE  
AMUKO, OLUWATOYIN BEMIGHO  
ANYANWU, SOMTOCHUKWU  
ARUSURAI, OLIVIA UFUOMA  
ASOBIE, IMMANUELLA NYEBUCHI  
BENSTOWE, HAROLD  
BONN-OHIARIAKU, SANDRA  
CHUKWUDUMULU, ANTHONY  
EMEKA  
DAHIRU., ABDULRAZAQ. RABIU (D/E)  
DIRISU, OMUWA. (D/E)  
DORE, EWORITSEMOGHA.  
EUWERHERHE  
EDURE TONBRA. T  
EDWARD, QUEEN TAMUNOKURO  
EGBUNONU, AUGUSTA KELECHI  
EKPO, PRAISE ITORO-OBONG

ELENWO, CHIZAM FORTUNE  
ELIMINHELE, EHIAGE SARAH  
ENEH, VICTORY. EKENEKOT (D/E)  
ENUMAH, OGE GLORIA  
EVBENOBOSE, RITA EVBENAYE  
FASANMI, ADENIYI OLUWATOSIN  
GARBA SOLOMON. JOSHUA  
GARUBA, FAITH ONOSE  
GBAMILA, BOYEMIGHAN  
GODWIN-ADOLOR, VICTORY  
IGWE, PHILIPANJIDEKA

IKPEAWUJO, BLESSING ONYEKACHI  
ILUYEMI, TIMIBRA ERNEST  
ISIMEKHAI, DANESI ABDUL-HAFEEZ  
JACK UDORI. MONDAY  
JOB, FAITH CHIEMELEH  
KAKURI, SADDIYYA LINA  
LAWAL-RABANA, OLUWATOSIN  
MODEY, PRECIOUS-CYNTHIA  
MOHAMMED, HALIMATU  
MOHAMMED, MARYAM ABDULKADIR  
MUKORO, OGBENEYOMA THEODORA  
NEEKA, BEATRICE BARILEDUM  
JACOB  
NWAKA, ADAORA ONYEKACHI  
NWANISE, DORATHY ETIENAM  
NWAIKWA, BLESSING  
OBICHENDU, CHIDERA LILIAN  
OBOREH, ONOME  
OGBEMERUN, ADEBANJO  
OGBIMI JEREMIAH  
OGHAYEI, MARTHA NIKE  
OHAJIANYA, PRISCA CHISOM  
OHANKA, EZINNA JOHNSON  
OJUGBANA, MELBA  
IFEANYICHUKWU  
OKEREKE, CHIOMA LINDA  
OKUEYUGBO, OLUWADAMILOLA  
DEBORAH  
OKWILAGUE, SEMIRAH  
OLUGBEMI, OLUWATOBI. OYERONKE  
OMEKEH, MARHO  
ONYEJIECHI, CHRISTIAN NDUBUISI  
OROK-OJI, SALLY OYEB  
ORUMWENSE, EBENEZER

OSAZEMWINDE, OSARIEMEN FAITH  
OVIawe, EGHOSA  
OWOEYE, OLUWADAMILOLA  
ELIZABETH  
OWOLABI, ESTHER  
PEREKEMEKE, ANDREW EFE  
SEKIBO, COMFORT  
SHADRACK, OLUWAMUYIWA,  
OLUWASEYI  
SIMON, PRECIOUS OSAS  
TARKUMBUR, CORNELIUSTERLUMUN  
UBAIKE, OBIANUJU THELMA  
UCHE, AMBLESSED IJEOMA  
UDAH, DAMARIS IHUOMA  
UDOFIA, UNYIME EKAMMA  
UGORJI, TONY AKACHUKWU  
WALTER, KNOWLEDGE

**SECOND CLASS HONOURS (LOWER DIVISION)**

ABBey-HART, IBITORU  
ABDULAHl, ABDULLAHl OGWU  
ADAMU, FATIMA. NAGOGO  
ADEYEKUN, EFEOLUWA  
CHRISTOPHER  
ADOKEME, DAVID TAMARAPREYE.  
AGBATIOGUN, FADESHOLA  
CHRISTIAN  
AKINOLA, ADESOLA CASSANDRA  
ALALI, JOEBA HORSFALL  
ARO, SULIAT ADEDEJI  
AYERE, ODEGUA FAITH  
BODE,-BETIKU, BABABUNMI  
ARAMIDE  
DIENYE, ATISI PEARL  
EGENA, GERALDINE. OHEKPEJE  
EKEKWE, CHIDINMA  
EKPOATTAl, MBUOTIDEN IME  
ELUOZO, MERCY AJUMOKE  
EYO, KUFRE MICHAEL  
EZECHUKWU, BLESSING NKEM  
EZEUCHENNE, IFUNANYA BEVERLY  
FARINDE, BISOLA DEBORAH  
IGIEBOR-JACOB, JANE  
OSAGUMWENRO  
ILUMA, DIAN PROCTOR

KELANI, CHRISTIANA ABIODUN  
LAWAL, ADESEWA. KAREEMAT  
MENSAH, ISIOMA PRISCA  
MIAKPO, EMIASO JUDE  
MOGBOJURI, MAYOWA ADEBIMPE  
MUAZU, ABUBAKAR MAIMUNA  
MUAZU, HAUWA  
NDAKARA, MUOBO ZINO  
NDIDI, HILLARY ETUNIM  
NWANGWU, OGOCHUKWU  
UKAMAKA  
NWOLISA, KENECHUKWU KENNETH  
ODEBALA, GEORGE ASIMAGOR  
OGUGUA, CHIDINMA EMMANUELLA  
OKORO, MISAN  
OMOLOYE, ANUOLUWA MERCY  
ONUEKWA, NOREEN CHIZA.  
ORHOMONOKPAYE, OWIN  
ORIADE, ADEDOYIN ADEWUMI  
OWIE, JOSHUA OSAOGIE  
OYAREDE, EBIKONBOERE  
PEDRO, OLUWASEYI NATASHA  
SYLVESTER, QUEEN ELIZABETH  
THOMAS, MANU  
UDEOGU, OGECHI SUSAN  
UKPONG, ABASIFRIKE MICHAEL  
WACHUKWU, SHULAMITE IHUOMA  
WAKAMA, NGOZI JOB

**COLLEGE OF PHARMACY**

ABDULMALIK, AMINA TOZAVIZE  
ACHIMALO, CHINEDU GABRIEL  
ADELEKE, YETUNDE ABIODUN  
AGBEYEKE, NNEKA CYNTHIA  
AKAAZA, JENNIFER SEWVESE  
ASAMAKA, EDNA ONYEKA CHUKWU  
AZIZA, PRECIOUS AKPOMEDAYE  
BALOGUN, HAMIRATOLUWAFISA  
YOMI  
BOLAJI, IDOWU IBRAHIM  
BUSARI, RIDWAN ADEWALE  
EHINEBO, ODION EDNA  
EJIDOH, UGOCHINYEM NGOZI  
IBE, MERCY OGBONNE  
IMO, ORIE BARBARA  
KANU, CHIDERA KAREN QUEEN



OBEGOR, OGHENEKARO CALEB  
OGUNSOLU, EBUNMIDEOMOLARA  
OKAFOR, CHIZOBA VALENTINE  
OKAFOR, PROSPER SOPULUCHUKWU  
OLOSUNDE, OLAMIDEAYOBAMI  
ONYEDIKA, CHINEMELU MDORISANN  
OROVWOTU, OGHENEVWEGBA  
ENDURANCE  
OSAZE-UZZI, OYENMWEN  
OTEME, SANDRA  
ONOMEEDOGHOGHO  
SAKA, OLUFUNKE EMMANUELLA  
TEIBO, GRACE FUNMILAYO  
UMHENI, ITOHAN SANDRA  
ANORUE, KELVIN OBINWANNE

**COLLEGE OF ENGINEERING  
DEPARTMENT OF PETROLUEM  
FIRST CLASS HONOURS**  
AMEH JENNIFR KOPOGO  
BAYARI FARIDA SALE

**SECOND CLASS (UPPER DIVISION)**  
AKAOLISA IFUNANYA OBIANAMMA  
AKINLOYE SOLA DANIEL  
OGUGUA MELVIN EMEKA  
UNDELINKWO VERA ALILO

**SECOND CLASS HONOURS (LOWER  
DIVISION)**  
MAKARABA EBIDISABOFA BLESSING  
OKOLO SERAH NNEOMA  
OKON JOSEPH EKPENYONG  
UDOSEN UDOSEN EDOHOKET

**DEPARTMENT OF CHEMICAL  
FIRST CLASS HONOURS**  
AJIDE TAIWO MARY

**SECOND CLASS HONOURS (UPPER  
DIVISION)**  
AJIDE KEHINDE MARTHA  
NKAGBU DEBORAH CHINAZA  
NWANNA JOEL UCHECHUKWU  
SOKUNBI BLESSING MOJISOLA

**SECOND CLASS HONOURS (LOWER  
DIVISION)**  
AZIKE SOMTOCHUKWU JOSHUA  
FEYISETAN OLUWASEUN TEMITAYO

**THIRD CLASS HONOURS**  
ADEYINKA ADEDAYO ADEDIBO

**DEPARTMENT OF ELECTRICAL  
ELECTRONICS  
FIRST CLASS HONOURS**  
BELGORE ASIA'U TALATU

**SECOND CLASS HONOURS (UPPER  
DIVISION)**  
AGBORIANE TENNISON OJIROMUH  
ANOZIE REMIGIUS UGOCHUCHUKWU  
KYPUS AYEBAESIN IKAYE  
OKENYI MERCY NNEOMA  
OMOSIGHO GOODNESSOLUWATOBI  
OSEGHAE OSEMUDIAMEN PATRICK  
USO PATIENCE SONNY

**SECOND CLASS HONOURS (LOWER  
DIVISION)**  
AKINLOSOTU OLUWAFISAYO JAMES  
OBOREH OMOEFE EDOBE  
UDUAK SAMUEL

**DEPARTMENT OF COMPUTER  
FIRST CLASS HONOURS**  
ODOHOFREH ITORO ITA

**SECOND CLASS HONOURS (UPPER  
DIVISION)**  
EMAMI UWAOYIBOYAMI ANITA  
OSO OLUWABUKUMI WILLIAMS  
SUNDAY OSAMUYIMEN EMMANUEL

**SECOND CLASS HONOURS (LOWER  
DIVISION)**  
SALISU BABA GARBA

**CIVIL  
SECOND CLASS HONOURS (UPPER  
DIVISION)**  
ABIA BONAVENTURE MFON

ANIETUM PRECIOUS  
BALA MAI-DUDUGA TARIQ  
BIDIKI TEJIRI PRECIOUS  
CHUKWUEMEDUA ANGEL MICHAEL  
FEMI-IDRIS OLAYINKA  
OJO EDOKPAYI OSAGIE NATHANAEL  
OLAKANSE OLUWADAMILOLA  
SOARES BOLAJI EBENEZER  
SOTA EJIRO OGHENETEGA

**SECOND CLASS HONOURS (LOWER DIVISION)**

OBONO GABRIEL EDU  
ODIGIE ERASMUS AUSTIN  
UTIEYIONE TUALE  
WEST DAVID SHEDRACK

**MECHANICAL**

**SECOND CLASS HONOURS (UPPER DIVISION)**

ESSIEN KING NYONG  
SAMBO OBED GARBA

**SECOND CLASS HONOURS (LOWER DIVISION)**

ATANDA OLAWALE OLUMIDE  
EBOIGBE IYARE ANDREW  
ERHIRHIE OGHENERUEMU  
CHAMPION  
HARUNA HARUNA JADA  
MOHAMMED JOSEPH YUSUF

**COLLEGE OF NATURAL AND APPLIED SCIENCES**

**DEPARTMENT OF MICROBIOLOGY  
SECOND CLASS HONOURS (LOWER DIVISION)**

AKINBOBOLA COMFORT  
AWUNOR ONYEKA EZIATA  
BALA HADITH HADIZA  
LUBI GODGIFT  
NELSON-ANUMAKA ADAKU  
ODIA DAVID EHRUMWENSE

**THIRD CLASS HONOURS**

AHMAD USMAN ABUBAKAR  
FAYANJU OLUWATIMILEHIN

**DEPARTMENT OF COMPUTER SCIENCE AND INFORMATION TECHNOLOGY**

**FIRST CLASS HONOURS**

ANYADIGHIBE MIRIAM UCHENNA  
ENYINWAVINCENT OKORONKWO

**SECOND CLASS HONOURS (UPPER DIVISION)**

AISUEBEGUN PATRICK EJELE  
AKPIRI SUSAN OMAGBITISE  
ALIYU KAZIM  
BALARABE JAAFAR SHAFIU  
BOSAH OLISA SUNDAY  
EBBELI HENRY OYITAREBI  
EDEGBE PRECIOUS  
EMELAH SOKARIBA LAWSON  
IDIAGHE PATRICK GREAT  
IHUNWA GERALD EBUKA  
NWEKEALA MORGAN  
OGWUDIRE CHIEMEKA ALEX  
OKPU RADHARAH EBEL  
OLAWUYI OYESHOLA HENRY  
OMOKARO OSASUYI

**SECOND CLASS HONOURS (LOWER DIVISION)**

AHMED FAZIU  
BALA HABITH HAFIZ  
BALARABE AISHA  
EBIOROBO JAMES  
FORCADOS GODDAY  
EGUEMA FANCY  
IDOKO SUNDAY  
IDRIS MUBARAQ  
ISHIAKU RHINDI DAMOR  
OMODAFE NELSON KESIENA  
ABANI IZUCHUKWU  
FASOYE AYOBAMI

**DEPARTMENT OF MEDICAL LABORATORY SCIENCE**

**SECOND CLASS HONOURS (UPPER DIVISION)**

AGBATA GLORY  
DIKE LOTANNA ADESUWA  
EVBUOMWAN JENNIFER  
EZEWANNE OGOCHUKWU  
JONATHAN DUINBAI JULIUS  
NWANKWO KASIE  
N WASIKE FIDELIS  
OJAKOVO ADJARHO  
OLABINJO TITILOLA  
OLOOWOKERE OMOWUMI  
OSAIKHUWUOMWAN UDIYIWE  
YUSUF UMMULKHAIRI  
YUNUSA YUSUF  
UWADIA DEBORAH

**SECOND CLASS HONOURS (LOWER DIVISION)**

MALIK AYODEJI

**THIRD CLASS HONOURS**

AKIN-TAIWO OREOLUWA

**DEPARTMENT OF PHYSIOLOGY**

**FIRST CLASS HONOURS**

AIGBANGBEE  
KEZIAH EZEEMWENGHIAN  
ANYANWU PRINCELY  
CHUKWUNENYE

**SECOND CLASS HONOURS (UPPER DIVISION)**

ABIRI FARIDA OSIZEMETE  
ALLI BLESSING OSELUMENOVEN  
ASABOR WINNIFRED  
OSADEBAMWEN  
EGBE ESTHER VERVAL  
JAJA LEAH EMMANUEL  
OKE BABAWALE ADESOLA  
OKUNDIGIE OSAYUWAMEN CYNTHIA  
OLORUNFEMI AYEORIBE ABIODUN  
ONYENDILEFU GIDEON CHIJINDU  
SULE SAEED

**SECOND CLASS HONOURS (LOWER DIVISION)**

ADEOJO MOSHOOD ABIOLA  
UBAH OMEREBERE  
OKPA NWAKA PRECIOUS

**DEPARTMENT OF ANATOMY**

**FIRST CLASS HONOURS**

OLATOMIDE OLUWASEUN  
OZOEMENA CHIADI

**SECOND CLASS HONOURS (UPPER DIVISION)**

AYUA SOLOMON  
BROWN IBIFURO  
DOGARA COMFORT  
EBERECHUKWU UZOAMAKA  
MARK-BALM OBUBELEBRA  
OHUCHE CHINONSO FAVOUR  
OKOJIE GRACE ITOHAN  
OYARONBI OLUWADAMILOLA  
PHILIPS REBECCA  
THEOPHILUS NANYO  
UTIP EKAETTE

**SECOND CLASS HONOURS (LOWER DIVISION)**

ABUBAKAR YASSIR  
ADEBANJO ELIZABETH  
AGBATOR BLESSING  
AHMED HAMAMATA  
AKINKUNMI ENIOLA  
AZIKE CHIDUBEM  
BELLO RISCE AMADIN  
LEIZOU KIMIPA

**DEPARTMENT OF BIOCHEMISTRY**

**SECOND CLASS HONOURS (UPPER DIVISION)**

ABIODUN BUKOLA DANIEL  
EZEKIEL FAITH SIMISOLA  
OLORUNSHOLA OLUMIDE VICTOR  
UZOIGWE UGOCHUKWU  
CHUKWUEMEKA  
UZOIGWE CHIDIEBERE NDUBISI

**SECOND CLASS HONOURS (LOWER  
DIVISION)**

INE-AKHABUE EHIDIAMEN CHARLES  
EZEJIOFOR TOCHUKWU ONYEKA

## DEGREE ANALYSIS

COLLEGE/DEPT	1 <sup>ST</sup> CLASS	2 <sup>ND</sup> CLASS UPPER	2 <sup>ND</sup> CLASS LOWER	3 <sup>RD</sup> CLASS	TOTAL
<b>ARTS &amp; SOCIAL SCIENCES</b>					
i. Economics & Development Studies	1	13	9	-	23
ii. English	-	1	1	-	2
iii. Geography	-	1	1	-	2
iv. International Relations	3	5	19	1	28
v. Mass Communication	1	11	15	3	30
vi. Political Sc. & Public Admin	1	8	36	-	45
vii. Sociology & Anthropology	-	4	1	-	5
viii. Theatre Arts	-	-	2	-	2
<b>BUSINESS &amp; MGT STUDIES</b>					
i. Accounting	1	9	6	-	16
ii. Banking & Finance	-	1	1	-	2
iii. Business Administration	3	8	15	-	26
<b>ENGINEERING</b>					
i. Chemical	1	4	2	1	8
ii. Civil	-	10	4	-	14
iii. Computer	1	3	2	-	6
iv. Electrical/Electronics	1	7	6	-	14
v. Mechanical	-	2	5	-	7
vi. Petroleum Engineering	2	4	5	-	11
<b>HEALTH SCIENCES</b>					
<b>i. Anatomy</b>	2	11	8	-	21
ii. Biochemistry	-	5	2	-	7
iii. Medicine	-	-	-	-	69
iv. Physiology	2	10	3	-	15
v. Nursing	1	13	2	-	16
vi. Medical Laboratory Science	-	14	2	1	17
<b>LAW</b>	4	78	49	-	131
<b>NATURAL &amp; APPLIED SC.</b>					
i. Biological Sciences (Microbiology)	-	-	6	2	8
ii. Chemical Sciences (Industrial Chemistry)	-	-	-	-	-
iii. Computer Science & Information Technology	2	15	12	-	29
<b>POSTGRADUATE</b>					
PhD					11
M Sc.					5
<b>PHARMACY</b>					
					55
<b>Total</b>	<b>26</b>	<b>237</b>	<b>214</b>	<b>8</b>	<b>625</b>