ORGANOGRAM OF
THE SCHOOL OF POSTGRADUATE STUDIES

Senate

SPgS Board

Dean

Research & Development Unit

Secretary to SPgS

Faculty SPgS Committee

Departmental SPgS Committee

Admissions Unit

Finance/Information/Publication Monitoring Unit

Examination & Records Unit/Audit
The School of Postgraduate Studies serves the entire university through our courses. We are devoted to our philosophy of dialogue, our mission, and our vision of holistic education which promotes balanced character and academic excellence.

The success of the school depends on our devoted staff who share the university's philosophy, values, mission and vision for teaching and learning. Teaching and research are the core elements of our work. All of our classes are taught by qualified lecturers and professors. Our school is dedicated to building bridges across epistemic divides, promoting interdisciplinary and trans-disciplinary approaches to learning, research and community service. Our goal is to remain innovative, creative in promoting the advancement of our society through our research and service. We are dedicated to applying expertise and the latest knowledge and methods in our teaching, scholarly and creative work.

We provide all of our students with education that balances in-depth study with a breadth of experience in the various disciplines we offer. Our programmes are aimed at enhancing student knowledge and critical thinking skills, engendering courage to raise questions of value and meaning, and developing skills, values and habits that promote personal and collective development.

The School of Postgraduate Studies of Godfrey Okoye University is set to be a game changer in postgraduate education. I invite you to study this handbook to know our university and postgraduate programmes.

Mary Gloria C. Njoku, DDL., PhD, FNPA.
Dean and Professor of Clinical Psychology
PROPRIETOR
Most Rev. Dr. Callistus V. C. Onaga
Catholic Bishop of Enugu Diocese

THE BOARD OF TRUSTEES

Chairman:
Prof. Dr. Bartho Okolo

Members:
Prof. Dr. Joseph I. Chidobem
Prof. Dr. Barth Nnaji
Msgr. Prof. Dr. Obiora Ike
Dr. Mrs. Vero Mogboh
Chief Mrs. Onwuagha
Rev. Fr. Prof. Dr. Christian Anieke
Prof. Dr. Christian N. Okeke

Secretary:
Dr. Nnamdi N.S. Ene

CHANCELLOR
Most Rev. Dr. Ignatius Ayua Kaigama

PROCHANCELLOR
Prof. Dr. Christian Nwachukwu Okeke

Vice Chancellor
Rev. Fr. Prof. Dr. Christian Anieke
OTHER PRINCIPAL OFFICERS OF THE UNIVERSITY

Deputy Vice Chancellor
Prof. Dr. Edwin C. Onyeneje

Registrar
Dr. Nnamdi N. S. Ene

Bursar
Mrs. Modesta Egiyi

University Librarian
Mrs. Mary Ellen Chijioke
OFFICERS OF THE SCHOOL OF POSTGRADUATE STUDIES

Dean
Sr. Prof. Dr. Mary Gloria C. Njoku, DDL.

Secretary to the School

Head of Admissions Unit

Head of Information/Publication/Monitoring Unit

Head of Examination and Records Unit

Secretary to the Dean
# Table of Contents

- **Proprietor** vi
- **Board of Trustees, Chancellor, Prochancellor, Vice Chancellor** vi
- **Principal Officers of the University** vii
- **Officers of the School of Postgraduate Studies** viii
- **Table of Contents** ix
- **Philosophy, Vision and Mission of the Postgraduate School** xiii
- **General University Information** 01

## Chapter One: Historical Development of the University

- Name, Nature and Foundation of Godfrey Okoye University 02
- The Name of the University 02
- University Foundation and Nature 02
- Foundation Day 02
- Development of Faculties 02
- First Matriculation 03
- University Logo 03
- Logo Colours 03
- Motto 03
- Accreditation and Approval 03
- Learning Goals 03
- Government of the University 04
- Academic Staff 04

## Administrative Structure of the University

- **Office of the Vice Chancellor**
  - Academic Planning Unit of the Office of the Vice Chancellor 05
  - Public Affairs, Projects and Services Unit of the Office of the Vice Chancellor 05
  - Works Unit 06

- **Registrar's Department**
  - Registrar's Office 06
  - Admissions Office 07
  - Examinations Office 07
  - Records Office 07

- **General Administration Office**
  - Human Resources Office 07
  - Student Affairs' Department 07
  - Bursary 08
  - University Library 08
  - Library Regulations 08
  - Circulation Policy 08
University Clinic 09
ICT Unit 10

**Chapter Two: Administrative Structure of the School of Postgraduate Studies**

Board of the School of Postgraduate Studies 11
Membership of the Board of the School of Postgraduate Studies 11
Terms of Reference 11
The Board of the School of Postgraduate Studies shall: 11
Faculty Postgraduate Committee 12
Membership of Faculty Postgraduate Committee 12
Terms of Reference of Faculty Postgraduate Committee 12
Departmental Postgraduate Committee 13
Membership of Departmental Postgraduate Committee 13
Terms of Reference of Departmental Postgraduate Committee 13
Other Committees of the School of Postgraduate Studies 13

**Chapter Three: General and Academic Regulations of the School of Postgraduate Studies**

The Process of Application for the Postgraduate Programmes

Application Form 17
Approval of Application 17
Recommendation 17
Transcripts 17
Mode of Admission 17
Full-Time Admission 17
Part-Time Admission 17
Admission as Conditional Students 17
Conditional Postgraduate Degree Students 17
Non-Degree Seeking Students 18
Admission 18
Foreign Students 18
Course Registration 19
Registration Procedure 19
Matriculation 19
Programme of Study 19
Duration of Programmes 20
Graduation Requirements 20
Titles of Degrees 21
Teaching and Supervision 21
Academic Mentorship 21
First Year first Semester Programme
Award of Degree

Examinations
External Examiner System
Examination Regulation
PhD Dissertation Proposal Defence
Approval of PhD Dissertation Title
Eligibility to Supervise Postgraduate Project/Thesis/Dissertation
Eligibility to Teach and Examine Postgraduate Courses
members of thesis /Dissertation Committee
Processing of the Report of the Committees
Standard and Presentation of Thesis/Dissertation
Format
Submission of Thesis/Dissertations
Final Assessment
General
Candidate's Performance
Progress Reports
Grading System
Scoring and Grading Systems
Course Credit System:
Grade Point Average (GPA) and Cumulative Grade Point Average (CGPA)
Post Diploma Classification
Suspension of Studentship
Reactivation of Suspended Studentship
Lapsed Studentship
Reactivation of Lapsed Studentship
Withdrawal of Students
Voluntary Withdrawal
Withdrawal without Authorization
Withdrawal for Health Reasons
Disciplinary Withdrawal and Expulsion
Withdrawal for Academic Reasons
Request for Academic Transcript
Approval of Departmental and Faculty Requirements
Graduate Assistantship

Postgraduate Prizes
Vice Chancellor's Research Excellence Prize
Vice Chancellor's Postgraduate Leadership and Research Excellence Prizes
Faculty Postgraduate Prizes
Chapter Four: Rights and Responsibility

Academic Integrity
Standards of Academic Integrity 35
Violations of Standards 35
Disciplinary Sanctions 35
Examinations Committee 35
Procedures 36
Degrees Awarded/Revoked 37
Plagiarism Prevention 37
Research Ethics 37
Timely Response Policy 37
Policy 38
Student Communications 38
Comprehensive Examination 38
Research Project, Thesis and Dissertation 38
Exceptions to Timely Response Policy 38
Intellectual Property 38
Staff Rights 38
Student Rights 39
Rights of the University 39
Formal Arrangements 39
Operating Procedures 40
Obligation Concerning Disclosure 40
Retaining Rights without Royalty for Academic Uses at the University 40
Staff and Student Use of Works Created at and Owned by the University 40
Updating and Correction of Works 40
Attribution 40
Applicability and Amendments 40
Technology Resources 41
Who is Covered by this Policy? 42
Acceptable Use 42
Acceptable Use Agreement 42
Individual Privileges 43
Free Expression 43
Privacy 44
Personal Use 44
Individual Responsibilities 44
Respect for Intended Use of Resources 44
Respect for Shared Nature of Resources 44
Respect for Rights of Others 45
Unsolicited Communications 45
Respect for Intellectual Property 45
## Reporting Violations
- Administration and Implementation
- Purpose of the GO University.edu.ng Domain

### Chapter Five: Postgraduate Programmes in Various Faculties

#### Academic Structure

#### Course Structures and Course Descriptions by Faculty and Departments

### Faculty of Education

- Department of Educational Foundations
- Department of Arts and Social Science Education
- Department of Language Education
- Department of Science and Vocational Education

### Faculty of Management and Social Sciences

- Department of Accounting and Finance
- Department of Business Management
- Department of Economics
- Department of Political Science and International Relations
- Department of Sociology and Psychology

### Faculty of Natural and Applied Sciences

- Department of Biotechnology and Applied Biology
- Department of Computer Science and Mathematics
- Department of Microbiology
- Department of Physical and Geo Sciences
Philosophy
The philosophy of the School of Postgraduate Studies grounded on the three-pronged dialogues of the university is centered on innovative and creative epistemic dialogue and town-and-gown collaborations.

Vision
The vision of the School of Postgraduate Studies is to provide critical structures to a diverse body of students to attain intellectual, professional and academic excellence.

Mission
The School of Postgraduate Studies dedicates itself to facilitate students' scholarly study and advanced research aimed at developing professional work skills and the ability to make meaningful contributions to society.
1.10. Location of the University
Thinker's Corner Campus, Enugu, Nigeria.
Ugwuomu Nike Campus, Enugu, Nigeria
Website: www.gouni.edu.ng
Postal Address: Godfrey Okoye University, P.M.B. 01014, Thinker's Corner, Enugu, Nigeria
Telephone: 08170903876

1.11. Philosophy of the University

The philosophy of Godfrey Okoye University is based on the nature of the human person as a social being, as a dialogue-seeking being. From this point of view, the university understands education as a dialogical process of acquisition and dissemination of knowledge.

The major objectives of the university are:

a) To produce first class graduates who are well equipped to compete globally and ethically.

b) To offer a variety of opportunities to students to learn and develop their talents with rigorous and intensive teaching, guided research and projects by providing adequate and conducive lecture halls, theatres, classrooms, laboratories and workshops that will enhance learning and research.

c) To promote religious tolerance by a systematic, ecumenical approach to the study of religions and by encouraging common prayers.

d) To promote cultural and intercultural studies through guided research coordinated by a centre, which will be established for this purpose.

e) To promote epistemic unity through lecture and projects that promote the awareness of interconnectedness of different courses.

f) To seek partnership with various universities within and outside the country in order to expose its lecturers and students to research processes and results obtained in these other universities.

g) To employ the services of well qualified and experienced academic scholars.
who possess requisite academic qualifications to teach in world class universities.

h) To enshrine entrepreneurial skills in all programmes offered in the university in such a way that graduates will be resourceful, self-reliant and job creators.

1.12. Vision of the University
GO University's vision is to produce graduates who will be outstanding in learning, balanced in character and personality and ready to pursue epistemic unity in all its ramifications.

1.13. Mission of the University
GO University dedicates itself to impart quality education aimed at inculcating in the students strong personality that will ensure the promotion of religious, cultural and epistemological dialogue.

HISTORICAL DEVELOPMENT OF THE UNIVERSITY

1.20. Name, Nature and Foundation of Godfrey Okoye University
1.21. The Name of the University
The University takes its name from Godfrey Okoye, the Second Bishop of the Catholic Diocese of Enugu who founded the Daughters of Divine Love Congregation and the Cistercian Monastery, both within Enugu Diocese. Godfrey Okoye lived a life of love and respect for all people. He was a selfless citizen of the Catholic Church and Nigeria. A staunch supporter of education, he was the coordinator of Education for the Catholic Bishops Conference of Nigeria. In naming the university after Godfrey Okoye, the Catholic Diocese of Enugu underscores the importance of his legacy in the life of the new university.

1.22. University Foundation and Nature
Godfrey Okoye University (GO University) was founded in 2009 by Rev. Fr. Prof. Christian Anieke for the Catholic Diocese of Enugu. The university belongs to the Catholic Diocese of Enugu. The university's mission emphasizes academic excellence, access to quality education and respect for individuals of varied background.

1.23. Foundation Day
The university's Foundation Day is 21 October.

1.24. Development of Faculties
The university took off with two faculties, namely, Faculty of Management and
Social Sciences, and Faculty of Natural and Applied Sciences. Faculty of Education and Faculty of Arts were added in 2011 and 2013 respectively. The Postgraduate School and the Faculty of Law commenced in 2017.

1.25. First Matriculation
Students arrived on Monday, 7 December 2009 and commenced lectures immediately. The senate was inaugurated on Wednesday, 9 December 2009 to ratify action taken on its behalf and to approve the academic calendar. The Governing Council was inaugurated on Monday, 14 December 2009. The first matriculation, which attracted a large audience including the Special Adviser to the President on Petroleum, representatives of His Excellency the Governor of Enugu State and representatives of other universities in the geopolitical zone, took place on 13 February 2010.

1.26. University Logo
The logo of the university is conceptualized as two human hearts resting on a book. On the left side is the scientific representation of the human heart and on the right is the humanist representation. The two hearts rest on the bridge of an open book, implying that knowledge is a uniting and reconciling force.

1.27. Logo Colours
Five distinctive colours are depicted in the logo of the university. These are:
Blue: epistemic unity – central force of the curriculum
Gold: academic excellence
White: moral soundness and veracity in academic pursuit
Green: ecological consciousness of the university
Yellow: joy of academic pursuit that is holistic and conscious of the source of our being (God)

1.28. Motto
The motto of the university is **Unity of Knowledge**.

1.29. Accreditation and Approval
Godfrey Okoye University is approved by the National Universities Commission (NUC).

1.29. Learning Goals
The following learning goals are expected to be accomplished by the graduates of Godfrey Okoye University:
Mastery of specific area of study and capacity to compete globally
Critical and creative thinking that will facilitate personal advancement
Entrepreneurial skills
Spirit of dialogue and enquiry
Social responsibility and civic engagement
Respect for individuals of different backgrounds
and Religious tolerance

1.291. Types of Training
In order to obtain the ideal human resource that will lead to the full realization of the tasks and objectives outlined by the university, the following types of training are implemented:

- Lectures on courses prescribed for each degree programme
- Tutorials specifically arranged to complement the formal lectures which will enhance better understanding of the courses
- Seminars on selected topics to be delivered by invited external and internal lecturers
- Practical laboratory work and experiential learning
- Organized research activities by students and staff
- Annual project month comprising professional entrepreneurship and skills acquisition

GOVERNMENT OF THE UNIVERSITY
The university awards higher degrees and postgraduate diplomas. It has a Board of Trustees whose duty is to ensure sustainable funding of the university in all legal ways and apply the same in the interest of the university, receive and consider annual budgets/estimates and audited accounts of the university from the Governing Council, consider the annual report of the university academic and non-academic affairs and protect and defend legal titles to the property of the university. It also has a Governing Council and the senate for the development and supervision of academic matters.

1.31. Academic Staff
The university recruits suitably qualified academic staff from Nigeria and other countries of the world.

ADMINISTRATIVE STRUCTURE OF THE UNIVERSITY
1.32. Office of the Vice Chancellor
The office of the Vice Chancellor is the office of the Chief Executive and Academic Officer of the University. The office oversees the administration of the entire university community. The Vice Chancellor's office comprises the following: the
main office, Directorate of Academic Planning and Quality Assurance, Physical Planning Unit, Directorate of Public Affairs, Projects and Services and the Security Unit.

The main office of the Vice Chancellor provides direct administrative support to the Vice Chancellor in the task of coordinating the duties of the key administrative and academic officers who are responsible to the Vice Chancellor.

The main office of the Vice Chancellor serves as the departmental office for all the units under the direct supervision of the Vice Chancellor.

1.32. 1. Directorate of Academic Planning and Quality Assurance

The National Universities Commission (NUC) on realization of the fact that institutions are responsible for the quality of the education they offered, proposed and established the Academic Planning Unit (APU) in Nigerian universities in the early 1980s. This development is in response to the need to coordinate and streamline the academic policies and activities arising from sudden and sometimes uncoordinated growth, development and proliferation of programmes and units in the universities.

It was also expected that the Academic Planning Unit of the universities will handle the collection and management of data and information to guide the academic development of universities while ensuring the compliance of the institutions and units under it with NUC's Minimum Academic Standards (MAS) and with the university the senate's academic requirements.

The Directorate of Academic Planning and Quality Assurance attains this through its organization of the annual performance evaluation of the academic programmes and other university activities. The unit is responsible for the university's Academic Brief, and ensures that the Brief is properly implemented by advising the university management on all academic matters regularly. The unit is also responsible for managing academic planning and development policies and programmes of the university.

Currently the Directorate is headed by an administrative director who is directly responsible to the Vice Chancellor for the day-to-day administration and running of the unit and for coordinating the academic policies of the university in an advice-giving role to the Vice Chancellor.

1.32. 2. Public Affairs, Projects and Services Unit

(i) Responsible to the Vice chancellor who is the Chief Image Maker of the university for organizing public events in the University.

(ii) Arranging for and receiving official visitors.
(iii) Assisting in the promotion of good relations with the University's host community. Liaising with Works Unit in the provision of recreational faculties and transportation for university visitors and personnel.

(iv) Assisting in editing, monitoring, evaluating and documenting publication/current affairs relating to the University.

(v) Linking the university with the mass media and other similar organizations and agencies.

(vi) Undertaking publicity, advertisement and press liaison duties for the university and participating in organizing and managing publications.

(vii) Providing expert advice to the Vice Chancellor on matters relating to public events including organizing open days.

(viii) Liaising with other arms of the university in the organization of matriculation, convocation and etc.

(ix) Responsible to the Vice Chancellor for University-Parents Association.

(x) Liaising with Works Unit for the general upkeep of the university environment, staff welfare matters, office space and furnishing.

(xi) Dealing with other duties as may be assigned by the Vice chancellor.

1.32. 3. Works Unit
The Works Unit was established at the inception of the university and charged with the planning, design, organization and implementation of maintenance and rehabilitation works as related to civil, mechanical and electrical facilities in the university. Rehabilitation projects are carried out either by contract or direct labour. The unit is responsible for the preparation of all necessary documents on the rehabilitation projects to be carried out by contract, recommend contractors and supervise their work. The unit is also involved in the operation of facilities for the supply of essential services. The Director of Works coordinates the unit and is responsible to the Vice Chancellor for the day-to-day activities of the unit.

1.33. Office of the Registrar
1.33.0. Registrar's Office
The Registrar, who is a principal officer and the Chief Administrative Officer of the
university, is the head of the office. This officer is responsible to the Vice Chancellor for the day-to-day administration of the university and the effectiveness of the department can be measured in terms of institutional goals and the extent to which these goals are met to the satisfaction of the various constituencies within the university. By virtue of the office, the Registrar is the secretary to the Council, the Senate, the Congregation Convocation and their various committees. Additionally, the Registrar is the custodian of the university seal, other legal documents and official records. It is the duty of this department to see to it that the standard official university publications (such as university calendar, prospectus, staff handbook, gazette and administrative procedures manual) are issued and updated on regular basis.

The work of the Office of the Registrar is facilitated by the following key divisions:

1.33.1. Admissions Office
This office coordinates undergraduate admissions; serves as the secretariat of the senate Committee on admissions; arranges for student matriculation and performs other related duties.

1.33.2. Examinations Office
It is this office that co-ordinates university examinations while serving as recording secretary to the Examination Committee of the senate and assisting the Registrar in servicing the senate.

1.33.3. Records Office
This office co-ordinates students' registration, keeps custody of the matricula and students' official records; prepares and issues students' transcripts and assists the Registrar in Committee servicing.

1.33.4. General Administration Office
It is the duty of this office to assist the Registrar on the day-to-day administration, servicing Council and its key Committees; looking after the welfare of Council members during their visits and servicing various adhoc committees of the university.

1.33.5. Human Resources Office
This office assists the Registrar in his job as secretary to the appraisals committee, appointments and promotions committee, it builds and keeps custody of staff files and records and provides management information for various staff processes.

1.34. STUDENT AFFAIRS' Unit
In order to enhance the teaching and research mandates of the university, the
student affairs unit strives to ensure peace and harmony on the campus by focusing mainly on students' welfare, students' association activities and hostel management issues. It ensures that students, irrespective of religion, race, ethnicity, age or political affiliations are treated equal and are found worthy in character as they pursue their legitimate academic aspirations.

1.35. **BURSARY**
The head of the Bursary unit is the Bursar. As the Chief Financial Officer of the university, he is responsible to the Vice Chancellor for the day-to-day administration and control of the financial affairs of the university. The Bursary is made up of the Bursar's Office and the Finance. The unit is structured to address the various functions associated with the components of financial management as follows:

- Annual estimates
- Budgets and budgetary control
- Accounts and accounting records
- Receipt and accounting for the income of the university
- Payment of staff and third parties
- Banking
- Insurance
- Fund management
- Preparation of annual accounts for external audit

1.36. **University Library**
The Library provides to the students and staff of Godfrey Okoye University the resources and services required to support evidence-based research and education leading to informed religious, cultural, and epistemological dialogue. The Library collects, organizes, maintains, and makes available information resources in all formats, both print and non-print. The Library provides instruction in effective use of such resources and assists all patrons in their research. In support of the University's institutional integrity, the Library also organizes and maintains the University Archives.

The University Library provides print and electronic books and articles. The library has a main library and three branches; E-library, law library and postgraduate library. The library opens from 8:00 am to 9:00 pm, Monday to Friday, from 10:00 am to 4:00 pm on Saturday and from 1:00 pm to 9:00 pm on Sunday.

1.36.1. **Library Regulations**
1. Users must present their GO University identification, or a letter of
introduction from the library of their home institution.

2. All personal bags and books are to be left on the table provided before entering the reading space.

3. All cell phones must be switched off or set to silent. No telephone conversations are to be held in the Library.

4. No food or drink in the Library.

5. No “colonization” of seats.

6. Readers must maintain an atmosphere conducive to studying: quiet, calm, and neat.

7. Care must be taken of all library materials and equipment. Readers will be charged for any damage they cause.

8. All users must leave the Library promptly during prayers and break periods.

9. Negligent or intentional damage to Library property will result in a fine, the cost of the item plus such other fine as the university shall determine.

10. No notices or posters shall be mounted without the permission of the University Librarian.

11. Projects may not be borrowed or photocopied.

12. Failure to obey rules or meet obligations to the Library may result in loss of library privileges.

1.36.2. Circulation Policy
The Library circulates general books to university students and staff of the university. Reference books, periodicals, and CDs do not circulate outside the library. The library also maintains a reserve collection of items under particularly heavy demand and/or especially difficult to replace. These items may be borrowed for use in the Library only. The borrower must present identification before borrowing.

1.37. University Clinic
The university offers healthcare services through the university clinic and the community health center. Health insurance is offered through Trust Insurance
scheme. The services of the university clinic are currently limited to out-patient, and run two shifts.

The community health center of the clinic runs two shifts, morning and afternoon, operating a 24 hours service at the Ugwuomu campus. It has general, children, male and maternity wards and therefore offers in-patient hospitalization. New students are usually required to present medical certificates of fitness in special forms provided by the university during the registration formalities.

1.38. ICT Unit
The ICT unit coordinates all information and communication technology related activities on the campus. The vision of the ICT unit is to be a center of excellence in information and communication technology, providing state-of-the-art support to enhance teaching, learning, research, administration and external linkages.

2.0. The postgraduate programmes of Godfrey Okoye University are administered by a Board constituted by the university, known as the 'Board of the School of Postgraduate Studies'. The activities of the School are also administered with the help of the following committees:

i. Faculty Postgraduate Committees
ii. Departmental Postgraduate Committees
iii. School of Postgraduate Studies Admissions Committee
iv. School of Postgraduate Studies Curriculum Committee
v. School of Postgraduate Studies Executive Committee
vi. School of Postgraduate Studies Finance Committee
vii. School of Postgraduate Studies Technical Committee
viii. School of Postgraduate Studies Ethics Committee
ix. School of Postgraduate Studies Development Committee

The administrative units of the School of Postgraduate Studies include:

i. The Admissions unit
ii. The Finance and Internal Audit unit
iii. The Exams and Records unit
iv. Research and Development unit
v. Information/Publication and Monitoring Unit
vi. General Administrative and Board Unit

2.10. Board of the School of Postgraduate Studies
2.11. Membership of the Board of the School of Postgraduate Studies
2.12. Terms of Reference

The Board of the School of Postgraduate Studies shall:

i. Receive and recommend to the senate, departmental and faculty submissions on admission, registration, fields of study, research proposals, supervisors and internal and external examiners;

ii. Make recommendations to the senate on admissions of occasional and special postgraduate students;

iii. Examine postgraduate curricula and examination programmes submitted by departments through faculty postgraduate studies committees and make recommendations to the senate;

iv. Receive each candidate's detailed programme and progress reports as well as monitor the candidate's progress;

v. Recommend to the senate candidates whose studies should be terminated;

vi. Advise the senate on candidates whose programmes require period of studies outside the university;

vii. Interpret and operate postgraduate regulations, and present annual reports on its work to the senate;

viii. Assess and recommend to the senate, students for postgraduate scholarships, fellowships, stipends, and other awards;

ix. Prepare and operate a budget necessary for executing the functions of the school, paying particular attention to fellowships, scholarships, visiting lectureships and postgraduate programmes;

x. Recommend periodically to the senate, a comprehensive review of general regulations, progress and development of postgraduate studies at Godfrey Okoye University;

xi. To approve the extension of duration of study on the recommendation of the appropriate departmental and faculty postgraduate committees;

xii. Handle any other matters referred to it by the senate from time to time.
2.20. Faculty Postgraduate Committee

2.21. Membership of Faculty Postgraduate Committee

i. Dean of Faculty - Chairman;
ii. Representative of the faculty on the Board of the School Postgraduate Studies;
iii. All heads of departments in the faculty;
iv. All coordinators of postgraduate programmes in the faculty;
v. All postgraduate lecturers in the faculty;
vii. Other professors and associate professors in the faculty;
vii. Faculty Officer–Secretary.

2.22. Terms of Reference of Faculty Postgraduate Committee

The terms of reference of the Faculty Postgraduate Committee would be as follows:

i. To review all the programmes designed by the departmental committee and make recommendations;
ii. To consider titles of dissertations/thesis and make appropriate recommendations to the Board of School of Postgraduate Studies for approval;
iii. To consider and make appropriate recommendations to the Board of School of Postgraduate Studies on any other matter either initiated by the committee or referred to it by the Board.

2.30. Departmental Postgraduate Committee

2.31. Membership of Departmental Postgraduate Committee

i. Head of Department – Chairman
ii. Postgraduate programme lecturers in the department one of whom is designated programme coordinator
iii. Secretary – A nominee of the Head of Department.

2.32. Terms of Reference of Departmental Postgraduate Committee

To consider and make recommendations to the Board of the School of Postgraduate Studies through the Faculty Postgraduate Committee with respect to the following:

i. The review of postgraduate academic curriculum of the department within the approved guidelines;
ii. The admission of suitable candidate(s) for postgraduate programmes in the department;
iii. Matters pertaining to deferment of admission, extension of study, suspension of study, registration of titles of Master's Project and PhD
dissertation, nomination of supervisor;
iv. Nomination of project/thesis/dissertation committee (internal and external);
v. Processing of the final results of postgraduate students;
vi. Setting of supplementary examinations where deemed necessary or deemed practicable;
vii. Any other matter referred to it by the Board of the School of Postgraduate Studies.

2.40. Other Committees of the School of Postgraduate Studies
2.41. School of Postgraduate Studies Executive Committee
2.41.1. Membership of the School of Postgraduate Studies Executive Committee
   i. Dean, School of Postgraduate Studies - Chairman
   ii. Faculty PG Coordinators - Members
   iii. Secretary, School of Postgraduate Studies – Secretary/Member

2.41.2. Terms of Reference of the School of Postgraduate Studies Executive Committee
Terms of reference of the School of Postgraduate Studies Executive Committee are as follows:
   i. To undertake overall responsibility for the implementation of the vision and mission, aim and objectives of the School;
   ii. To take overall responsibility of the implementation of the School's teaching and research strategy and associated policies;
   iii. To maintain a general overview of the postgraduate programmes, through the review process to ensure currency of programmes and to identify opportunities for development;
   iv. To consider and approve or disapprove requests from postgraduate students and staff with respect to postgraduate studies, teaching and research and make recommendations to the School of Postgraduate Studies Board;
   v. To deliberate on and undertake any other matter regarding postgraduate studies in line with the goals and plans of the University.

2.42. School of Postgraduate Studies Admissions Committee
2.42.1. Membership of the School of Postgraduate Studies Admissions Committee
   i. Dean, School of Postgraduate Studies - Chairman
   ii. Deans of Faculties – Members
iii. Secretary, School of Postgraduate Studies – Secretary/Member

2.42.2. Terms of Reference of the School of Postgraduate Studies Admissions Committee
i. To establish the criteria for the selection and review of candidates into the postgraduate programmes of the school;
ii. To select candidates for admission into the postgraduate programmes of the School and make recommendations to the School of Postgraduate Studies Board for approval.

2.43. School of Postgraduate Studies Curriculum Committee
2.43.1. Membership of the School of Postgraduate Curriculum Committee
i. Dean, School of Postgraduate Studies - Chairman
ii. Deans of Faculties – Members
iii. Faculty PG Coordinators - Members
iv. Secretary, School of Postgraduate Studies – Secretary/Member

2.43.2. Terms of Reference of the School of Postgraduate Studies Curriculum Committee
i. To review all proposals for new programmes, reviewed programmes and modifications (including the discontinuance of postgraduate programmes);
ii. To review and appraise current programmes and to recommend approval or otherwise to the Board of the School of Postgraduate Studies;
iii. To review and recommend to the School of Postgraduate Studies Board all proposals and recommendation regarding postgraduate programmes;
iv. To formulate and recommend to the School of Postgraduate Studies Board, academic policies affecting postgraduate matters such as academic standard, admission and graduation requirements.

2.44. School of Postgraduate Studies Finance Committee
2.44.1. Membership of the School of Postgraduate Studies Finance Committee
i. Dean, School of Postgraduate Studies - Chairman
ii. Secretary, School of Postgraduate Studies – Secretary/Member
iii. Finance Officer - Member
iv. Internal Auditor – Member

2.44.2. Terms of Reference of the School of Postgraduate Studies Finance Committee
i. To review, recommend and administer the annual operating budget for the
School;
ii. To review and recommend funding guidelines and criteria for the disbursement of fund to faculties and departments for the operation of postgraduate programmes;
iii. To review financial matters and issues of procurements and make recommendations to the Vice Chancellor;
iv. To undertake any other responsibilities in relation to the administration of finance matters in the School of Postgraduate Studies within the financial regulations of the University.

2.45. School of Postgraduate Studies Technical Committee
2.45.1. Membership of the School of Postgraduate Studies Technical Committee
   i. Dean's Nominee – Chairman
   ii. Faculty Postgraduate Coordinators – Members
   iii. Secretary, School of Postgraduate Studies – Secretary/Member

2.45.2. Terms of Reference of the School of Postgraduate Studies Technical Committee
   i. Vetting of postgraduate results for presentation to the School of Postgraduate Board;
   ii. Vetting of synopses of doctoral students and recommendation for presentation to the School of Postgraduate Studies Board meeting.
   iii. To review proposals for School of Postgraduate Studies Research Grants and make recommendations to the Board
   iv. To undertake any other duties as may be assigned by the Dean.

2.46. School of Postgraduate Studies Ethics Committee
2.46.1. Membership of the School of Postgraduate Studies Ethics Committee
   i. Dean's Nominee – Chairman
   ii. Faculty Representatives – Members
   iii. Community Representative - Member

2.46.2. Terms of Reference of the School of Postgraduate Studies Ethics Committee
   i. To promote research integrity
   ii. To ensure that all postgraduate research abides with the general and disciplinary standards of research ethics;
   iii. To review and approve research protocols before commencement of research.
   iv. To monitor approved research projects of postgraduate students
v. To ensure that all ethical issues associated with postgraduate research and teaching have been appropriately considered, addressed and approved before commencement of research or teaching;
vi. To investigate ethical violations, examination malpractice and plagiarism issues among postgraduate students and staff and recommend appropriate sanctions.

2.47. School of Postgraduate Studies Development Committee

2.47.1. Membership of the School of Postgraduate Studies Development Committee
i. Dean - Chairman
ii. Other Members
iii. Secretary, School of Postgraduate Studies – Secretary

2.47.2. Terms of Reference of the School of Postgraduate Studies Development Committee
i. Generating donors for research and infrastructural development of School
ii. Generating friends for the School
iii. Supporting and monitoring sponsored research

Postgraduate training in Godfrey Okoye University is focused on the realization of the ideals of the university and of higher education in shaping the perception, thinking and holistic demeanor of the educated person.

Postgraduate studies shall emphasize research training which enables the researcher to have the courage to explore unknown areas, ask critical questions and find relevant answers to the questions. The postgraduate school shall raise the standard of postgraduate studies and facilitate the ability of its graduates to extend the frontiers of scholarship, leadership and development. Godfrey Okoye University is on a mission to break barriers, grasp emerging frontiers and create a formidable postgraduate learning experience for greater societal impact.
3.00. The Process of Application for the Postgraduate Programmes

1. Application Form
Application for a course leading to the award of a Postgraduate Degree shall be made on the university form for postgraduate studies online.

2. Approval of Application
Approval of application shall be by the Board of the School of Postgraduate Studies, on behalf of the senate after receiving the recommendation of the appropriate Faculty Board.

3. Recommendation
Every applicant would be required to provide three recommendations received on or before the deadline for the submissions of application form.

4. Transcripts
Official academic transcripts of all degrees completed must reach the School of Postgraduate Studies before the stipulated deadline.

3.01. Mode of Admission

1. Full-Time Admission
2. Part-Time Admission
3. Admission as Conditional Students

There are two types of conditional students:

(a) Conditional Postgraduate Degree Students
These are candidates who do not satisfy the minimum entry requirements for the Doctor of Philosophy (PhD) Degree Programme (with cumulative average of less than 60% but above 50%). Such candidates shall be recommended to audit identified courses of deficiency (not less than five courses) and pass with a minimum of 60% in each before they can be admitted into the PhD Programme.

(b) Non-Degree Seeking Students
These are candidates seeking attachment to a department to do research or specific courses in their areas of study for a specific period of time. They are registered students in their respective home universities where they will obtain their degree. This category accommodates student exchange programme.

3.02. Admission
The general admission requirements for postgraduate programmes, subject to fulfilling other specified departmental requirements, shall be as follows:

i. Candidates must have the basic ordinary level University entry requirement of at least 5 credit passes in WASC, SSCE/GCE, NECO or their equivalent, which must include a credit pass in English and Mathematics.

ii. Candidates for a Postgraduate Diploma (PGD) programme must possess a minimum of a first degree or HND (merit pass)

iii. Candidates for a Master's degree programme must possess a minimum of a second class (lower division) degree from recognized universities with at least a CGPA of 3.00 on a 5 point scale.

iv. Candidates for a PhD programme must possess a minimum of a Master's degree with a 4.0 CGPA or average score of 60% or grade 'B'.

v. Requisite academic transcripts must accompany applications for postgraduate programmes, which shall be forwarded directly by the issuing university to the Postgraduate School.

vi. Successful completion of the postgraduate entry examination (PES).

All postgraduate students are required to take the research ethics training and pass the modules satisfactorily before undertaking research activities. All postgraduate students are required to complete a grant writing workshop or training.

3.03. Foreign Students
Foreign students are encouraged to enroll in our programmes. Foreign students whose first language is not English are expected to have acquired competence in English language to cope with the language of instruction in our university.

3.04. Course Registration
Every student is expected to register for the prescribed courses at the beginning of each semester. No student may be allowed to register for courses after two weeks from the date of commencement of lectures for the current semester. However, on the basis of illness or other extreme circumstance and with the
permission of the School of Postgraduate Studies Board, students may be allowed to register after the closing date with the payment of the appropriate late registration fee. Students will not be allowed to register for courses later than four weeks from the beginning of the semester.

3.05. Course Registration Procedure
The procedure for course registration is available online. Login to www.gouni.edu.ng, click on student services and follow the instructions to register your courses each semester.

3.06. Matriculation
All new postgraduate students who are not alumni of Godfrey Okoye University 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 at the School of Postgraduate Studies to formalize their admission.

3.10. Programme of Study
(a) Formal coursework shall be an integral part of all higher degree programmes of the university.
(b) Approval of postgraduate programme/courses shall be by the senate on the recommendation of the Faculty Postgraduate Committee through the Board of the School of Postgraduate Studies.
© No postgraduate course or amendments to existing courses shall be offered unless the senate has approved the same on the recommendation of the Board of the School of Postgraduate Studies.
(d) Candidates in certain circumstances may be required to undergo and complete satisfactorily, a minimum period of professional attachment or internship during the course of the programme of study as approved by the senate on the recommendation of Faculty Postgraduate Committee through the Board of the School of Postgraduate Studies.
(e) Candidates shall be required, as the programme stipulates, to prepare reports, long essays, thesis or dissertation. Topics for research thesis and dissertation must be approved by the Board of the School of Postgraduate Studies, on the recommendation of the Faculty Postgraduate Committee.
(f) Infringement of the above regulations (a)-(d) shall render such courses or programme(s) null and void and of no effect, irrespective of when the infringement is detected, for the purpose of the award of the higher degree.

3.20. Duration of Programmes
The postgraduate programmes of the university shall have the following durations:
i. PGD programme: a minimum of two semesters and a maximum of four semesters for a full-time programme.

ii. Master's programme: a minimum of two semesters and a maximum of four semesters for full-time programme.

iii. Doctoral programme: a minimum of six semesters and a maximum of ten semesters for full-time programme.

iv. Part-time postgraduate programmes shall last two years longer than full-time programmes.

v. An extension of the duration of a postgraduate programme under specified conditions may be granted a candidate subject to the approval of the Board of the Postgraduate School based on the recommendation of the candidate's supervisor.

3.21. Graduation Requirements

The graduation requirements for postgraduate programmes of the university shall be as follows:

1. **Postgraduate Diploma**
   
   To graduate from a Postgraduate Diploma programme of the university, a student must fulfill the following conditions:

   i. The programme shall include a minimum of 33 credit units of postgraduate courses or as may be prescribed by the department.

   ii. A student must have:
       a. passed all courses taken with a minimum score of 60% or letter 'B' grade and
       b. submitted an acceptable project.

2. **Master's Degree**
   
   To graduate from a Master's degree programme of the university, a student must fulfill the following conditions:

   i. The programme shall include a minimum of 33 credit units of postgraduate courses and thesis or as may be prescribed by the department.

   ii. A student must have:
       a. passed all courses taken with a minimum score of 60% or letter 'B' grade and
       b. submitted an acceptable thesis.

3. **Doctoral Degree**
   
   To graduate from a Doctoral degree programme of the university, a student must fulfill the following conditions:

   i. The programme shall include a minimum of 30 credit units of courses
and dissertation.

ii. A student must have:
a. passed all courses taken with a minimum score of 60% or letter 'B' grade and
b. submitted an acceptable dissertation.

3.30. Titles of Degrees
The postgraduate school shall award the following degrees:

i. Postgraduate Diploma (PGD)
ii. Master of Arts (MA)
iii. Master of Business Administration (MBA)
iv. Master of Education (MEd)
v. Master of International Relations (MIR)
vi. Master of Science (MSc)
vii. Master of Public Administration (MPA)
viii. Doctor of Philosophy (PhD)

3.40. Teaching and Supervision
The teaching of courses in specialization areas that are innovative and new shall follow co-teaching methods. GO University lecturers shall co-teach courses with lecturers from our partner universities (e.g., Europe, North America). All other courses shall be taught as approved by the postgraduate school. Thesis and dissertation supervision shall include at least one international professor.

3.41. Academic Mentorship
Every student admitted into the postgraduate programme shall be assigned to an academic mentor, who mentors the student on academic matters and supports the student's development in the programme. The mentor shall at the end of each session write a report on the student upon which the Board of the School of Postgraduate Studies will be able to determine the studentship of the candidate. The mentor is eligible to serve as chairman or member of the project/thesis/dissertation committee.

3.42. First Year, First Semester Programme
First year, first semester programme of all postgraduate programmes at the Master's level shall consist of intensive three months training in general writing, language, ICT, research ethics, grant writing, research methods and scientific research report writing. Students entering the university at the PhD level shall be required to complete this programme.

3.50. Award of Degree
To qualify for the award of the postgraduate degree, a candidate must have
i) Satisfactorily completed a course of instruction and seminar presentations specified by the department. A minimum of two seminars and three seminars are required for the Master's and PhD respectively.

ii) Submitted and defended a project for PGD, a thesis for the Master's and a dissertation for the PhD.

iii) Published one journal article for the Master's and two journal articles for the PhD in impact factor journals.

iv) Demonstrated Information and Communication Technology and the English Language proficiencies by passing relevant tests.

v) Filed a formal application for graduation.

3.60. Examinations
All courses shall in general be examined at the end of the semester in which they are offered. Any deferment of examination shall only be valid subject to the approval of the senate on the recommendation of the Board of School of Postgraduate Studies. At the end of each course, a candidate shall be credited with the number of credit units assigned for the course offered and passed. Examinations shall take the structure of written papers, oral examinations, practical's, submission of projects, assessment of course work, or a combination of these modalities. Continuous assessment, which may be in the form of papers, tests, assignments, practicals, etc. as applicable to respective subject areas shall form part of the end of course examination. Continuous assessment shall contribute 30% or 40% of the total score for a course that does not involve practicals and for a course that involves practicals respectively. All postgraduate courses shall be moderated by external examiners. The course coding system for the postgraduate programmes shall be as follows: PGD, 701-799; Master's, 801-899; PhD, 901-999.

3.61. External Examiner System
The external examiner system shall be used to assess the courses and projects or thesis or dissertation as the case may be. The external examiner must be at least a Senior Lecturer with PhD in the discipline. The work shall be subject to oral examination where the student is required to show evidence that he/she carried out the work and had pertinent knowledge of the subject matter.

3.62. Examination Regulations
Semester Examination
Semester examination, projects or exercises are expected to take place as scheduled:

1. Students are expected to be seated in the examination hall at least twenty (20) minutes before the scheduled time of any examination.

2. No student is allowed to leave the examination hall before half the time
allocated for the examination has passed.

3. No student will be allowed into the examination more than 30 minutes after the commencement of the examination.

4. No external material (textbooks, copied scripts, handout, etc.) may be taken into the examination venue while the examination is in progress. Offenders render themselves liable to disqualification from the examination and/or any other punitive measure to be determined by the examination committee and approved by the Vice Chancellor. An exception to this rule is when the course lecturer has specified material that may be used for the examination. This information must be made known to students and the invigilators.

5. All examinations must be conducted in the true standard of examination: thus any forms of distraction (discussion between students, etc.) in the examination hall while examination is in progress will be viewed as an examination irregularity and will lead to punitive measures.

6. 5 above is also application to all forms of unruly behaviour and insubordination by students while the examination is in progress.

7. Any students not cleared for the examination will not be allowed into the examination hall.

8. All students participating in the examination must sign the mandatory attendance list before and after the examination. Failure to do so may mean that such students did not participate in the examination.

3.63. PhD Dissertation Proposal Defence
After completing the coursework, candidates are required to present a detailed project proposal. This should illustrate their command of the theoretical and empirical literature related to their topics. It should include a clear statement of the theoretical and methodological approach to be taken and a chapter outline and work plan, which should identify any periods of fieldwork necessary for their research. It should, in addition, demonstrate the coherence and feasibility of the proposed research. All candidates for the PhD degree are required to pass the qualifying examination, the manner and details of which are as follows:

a) Candidates shall submit, the research proposal, not less than four weeks before defence of the proposal to the chairman of their dissertation committee;

b) The chairman shall circulate the proposal to other members of the committee at least two weeks before defence of the proposal;
3.66. Eligibility to Supervise Postgraduate Project/Thesis/Dissertation
Only the following categories of staff shall normally be permitted to supervise postgraduate projects, thesis and dissertation:
1. Lecturers of the rank of Lecturer 1 (with a doctorate degree) who have themselves successfully undergone postgraduate research degree programme are eligible to supervise Master's degree research.
2. PhD dissertation shall be supervised by Senior Lecturers and above.
3. In special cases, other categories of staff approved by the Board on the recommendation of the appropriate Faculty Postgraduate Committee may be permitted to perform these roles.

3.67. Students' Thesis/Dissertation Committee
The Chairman of the thesis/dissertation defence is someone appointed by the faculty on the recommendation of the department. The candidate has to nominate at least three supervisors who are specialists in the candidate's chosen research field. The SPgS takes two from the candidates recommendation and adds at least one external supervisor (outside Nigeria) to form the thesis/dissertation committee. The committee will guide the candidates through their research work.

(i) One of the supervisors shall be designated chairman while the other two shall be the committee members.

(ii) In exceptional cases, where a student is not satisfied with his committee approved by the Board of the School of Postgraduate Studies on behalf of the senate, the student shall complete the applicable form and forward to the head of department, who after interaction with the supervisor (s) shall send such report to the Chairman of the Faculty Postgraduate Committee. Where the head of department is also a member of the committee, the student shall send the completed form to the Chairman of the Faculty Postgraduate Committee. In cases where change of committee member is advisable, the Departmental Postgraduate Committee shall recommend another person (taking into cognizance the area of research of the candidate) to the Faculty Postgraduate Committee for transmission to the Board of the School of Postgraduate Studies. The recommendation shall contain reasons for the change.

(iii) The thesis or dissertation committee is responsible for conducting the final defence with the approval of the Chairman of the Departmental and Faculty Postgraduate Committees. Supervisor I is responsible for obtaining the approval to conduct the final defence.
c) The defence shall be oral;
d) The committee for the defence of proposal shall be composed of the Chairman, the Supervisory Committee members and at least one other member of staff from the Department, another from the Faculty, at least one from outside the Faculty and the representative of the School of Postgraduate Studies;
e) The report of the qualifying examination shall be processed in accordance with the approved procedure of the School of Postgraduate Studies;
f) A candidate who fails to satisfy the requirements of the proposal defence may be allowed by the Board of the School of Postgraduate Studies, on the recommendation of the Faculty Postgraduate Committee, to represent not later than a semester after the first attempt except that the examination cannot be repeated more than once; and
g) A PhD candidate who fails to present himself for the defence by the end of the prescribed period without the approval of the Board of the School of Postgraduate Studies shall forfeit his studentship.
h) Only the proposal of thesis/dissertation shall be conducted at the faculty or departmental level.

3.64. Approval of PhD Dissertation Title
1. Not later than one semester after passing the defence, PhD candidates shall submit the title of their research for approval of the Board of the School of Postgraduate Studies on the recommendation of the Faculty Postgraduate Committee.
2. Once approved, titles can only be changed with the permission of the Board on the recommendation of the Faculty Postgraduate Committee.

3.65. Eligibility to Teach and Examine Postgraduate Courses
1. Only the following categories of staff shall be permitted to teach postgraduate courses.
   (a) Lecturers with a doctorate degree and with a minimum of one year of teaching experience at the university level.
   (b) Lecturers who are proficient in Information and Communication Technology.
   (c) In special circumstances, other categories of lecturers approved by the senate on the recommendation of the Board of the School of Postgraduate Studies may be permitted to teach courses.
2. In accordance with regulation (1) above, each Faculty Postgraduate Committee on the recommendation of the appropriate department shall submit for approval of the Board of the School of Postgraduate Studies, at the beginning of each academic session, applications of Postgraduate lecturers, and a list of eligible members of staff qualified to teach and examine postgraduate courses.
3.68. Membership of Thesis/Dissertation Committee
There shall be a Thesis/Dissertation Committee for the examination of each research thesis or dissertation approved by the senate on the recommendation of the Faculty Postgraduate Committee through the Board of the School of Postgraduate Studies.
The committee shall be composed of at least:
(i) The Chairman
(ii) One committee member from the department
(iii) At least one member from a related department within the faculty; and
(iv) One external examiner who shall not be below the rank of Senior Lecturer to be nominated by the departmental committee through the Faculty Postgraduate Committee.
The committee once approved cannot be changed unless with the approval of the Board of the School of Postgraduate Studies.

3.69. Processing of the Report of the Committee
Notwithstanding the result of an examination, the Chairman of the committee shall process the report of the examination through the Faculty Postgraduate Committee to the Board of the School of Postgraduate Studies in accordance with item 3.70. below.
In case of successful candidates, the report shall be processed in accordance with item 3.70. below.

3.70. Standard and Presentation of Thesis/Dissertation
1. A thesis/dissertation shall be prepared under the direction of committee nominated by the Faculty Postgraduate Committee for the approval of the Board of the School of Postgraduate Studies;
The greater portion of the work submitted must have been carried out after the registration of the student as a candidate for the masters or PhD;
2. It must form a distinct contribution to the knowledge of the subject and offer evidence of originality, shown either by the discovery of new facts or by the exercise of independent analytical and critical power;
3. Where a dissertation or part thereof has been published or is to be published, there shall be a statement indicating that the content of the publication is in partial fulfillment of a higher degree of Godfrey Okoye University;
4. The author of the thesis or dissertation should only indicate his name and matriculation number
5. Every thesis/dissertation shall be written in English. In cases where the thesis/dissertation is permitted to be written in language other than English (e.g. in
African and other Foreign Languages) an English version of the abstract shall also be provided;

6. Project report/long essay, thesis or dissertation shall be prepared by each candidate according to the specific standard approved by the Board of the School of Postgraduate Studies on the recommendation of the Faculty Postgraduate Committee.

3.71. Format
The following format shall be complied with:
(a) The Research Project/Thesis/Dissertation should be typed with double line spacing using Times New Romans with font size 12.
(b) A margin of 2 inches is to be left on the left hand side and 1 inch for other margins.
(c) Only one side of the paper should be used.
(d) The title sheet shall contain the following: (i) The title of the work, (ii) The author's name in full with surname last, (iii) The Department and Faculty, (iv) The Degree, (v) The name of the university; and (vi) The year of approval by the senate
(e) The thesis/dissertation shall contain all or some of the following materials arranged in the following order: (i) Title, (ii) Certification (iii) Declaration (iv) Acknowledgements, (v) Table of Contents, (vi) List of Plates, (vii) List of Figures and Tables, (viii) Abstract, (h) The Main Body: (i) Introduction, (ii) Literature Review, (iii) Method, (iv) Results (v) Discussions, Summary, Conclusion and Recommendations, (i) Appendices: (i) List of References/Bibliography, (ii) Questionnaire (iii) Scale, Maps, Glossary etc.
(ii) The Title and Name (with first and middle names preceding surname), Title of the degree and year of award on the spine of the thesis or dissertation from top to bottom.

3.72. Submission of Thesis/Dissertations
(i) Candidates for the degree of Master's shall be required to submit a thesis while those for the degree of PhD shall be required to submit a dissertation.
(ii) When the candidate's thesis/dissertation is ready for examination, six copies of the duly certified thesis/dissertation, in temporary binding, shall be submitted through the relevant faculty to the School of Postgraduate Studies according to the prescribed procedure.
(iii) An oral examination shall hold as soon as possible upon receipt of at least three positive examiners' report including that of the external examiner by the School of
(iv) Five hard copies of the approved thesis/dissertation suitably bound in hard cover (as specified by SPGS), in addition to an electronic copy (in compact disk) shall be submitted to the School of Postgraduate Studies. The overall presentation of the thesis/dissertation must conform to stipulations above. Three hard copies shall become the property of Godfrey Okoye University. Of these, one shall be deposited in the University Library, department and the School of Postgraduate Studies respectively. The fourth copy shall be sent to the chairman of the thesis or dissertation committee and the fifth copy shall be returned to the candidate.

3.73. Final Assessment

1. General

Final assessment for higher degrees shall be undertaken only when all courses and project/thesis/dissertation requirements for degree have been fulfilled.

(a) The final assessment for all higher degrees shall include an oral Examination. In the case of PhD, and without prejudice to the result of the examination as a whole, an oral examination will only be conducted if in the view of the External Examiner, the Internal Examiner and any other examiner, the candidate's submission merits oral examination.

(b) For the degree of Master of Science an oral examination shall be arranged by the appropriate department and shall involve external examiners.

(d) Any breach of PG regulation on this matter shall render the examination thereof null and void.

(e) The Chairman of the thesis or dissertation committee shall submit to the Dean of the School of Postgraduate Studies the final assessment report duly signed by all the examiners on the prescribed form not later than two working days after the oral examination except where the examiners cannot agree on recommendation and are, therefore, unable to submit a joint report, individual examiners may submit separate reports to the Secretary of the School of Postgraduate Studies, through the Dean of the Faculty, who shall have no discretion on the matter.

(f) In case where the examiners are unable to agree on a joint report as indicated above, the Board of the School of Postgraduate Studies shall exercise its discretion to seek the opinion of an assessor or assessors from outside the university. Under no circumstances shall this function of the Board be delegated.

(g) The Dean of the School of Postgraduate Studies (or his/her representative) shall represent the School while the Chairman of the Faculty Postgraduate Committee shall represent the Faculty on the Board of the School of Postgraduate Studies at the oral examination of all candidates for the PhD degrees.

(h) A candidate who presents a thesis or dissertation which in part or in full is
discovered not to be his original work shall be deemed to have failed and shall not be qualified for the degree.

(i) Similarly, a candidate who presents a thesis or dissertation which is discovered at any stage to partially or wholly contain falsified data or material shall not qualify for the degree.

(j) A candidate who fails an examination leading to the award of degree shall not be permitted to re-apply for admission to the same degree programme.

(k) The effective date of award shall be the date of successful oral examination of the PhD dissertation and as pronounced by the senate.

2. Candidate's Performance

(a) If the candidate satisfies the examiners in the oral examination and the dissertation is acceptable to the examiners in its present form, the Chairman shall then process the result to the School of Postgraduate Studies through the Faculty Postgraduate Committee not later than two (2) weeks from the date of the candidate's submission.

(b) If the candidate satisfies the examiners in the oral examination and the dissertation is acceptable to the examiners subject to minor editorial amendments, such amendments shall be carried out within six (6) weeks to the satisfaction of the Chairman and Co-supervisor(s) and be certified by them on the appropriate form. The Chairman shall then process the result to the School of Postgraduate Studies through the Faculty Postgraduate Committee not later than two (2) weeks from the date of the candidate's submission.

(c) If the candidate satisfies the examiners in the oral examination, but the dissertation is unacceptable to the examiners in its present form due to the need for structural or major amendments, such as re-writing some portion of the dissertation, the candidate shall not require re-examination. However, the structural or major amendments shall be carried out within a period not exceeding three (3) months to the satisfaction of all internal and External Examiners and be certified by all the examiners in the appropriate form. The Chairman shall then process the result to the School of Postgraduate Studies through the Faculty Postgraduate Committee not later than two (2) weeks from the date of the candidate's submission.

(d) If the dissertation is satisfactory but the candidate fails to satisfy the examiners in the oral and/or written examination, the candidate may be recalled for a second oral/or written examination after a further period of study not exceeding one semester from the date of the examination and only after approval of same by the Board of the School of Postgraduate Studies on the recommendation of the Faculty Postgraduate Committee. However, the examination cannot be repeated more than
once.

(e) An oral examination could be termed as (i) excellent or successful as is, (ii) successful with minor corrections, (iii) unsuccessful with major corrections (requires reexamination), and (iv) unsuccessful (failed and not worthy of the award). Where the dissertation is considered inadequate or unworthy of the award of the degree, a revised thesis may not be re-submitted for re-examination unless after prior approval of the School of Postgraduate Studies, on the recommendation of the Faculty Postgraduate Committee. However, this resubmission must be done within two (2) semesters of the first examination, failing which no degree will be awarded. The examination shall be in accordance with regulation 3.73.2 (1) a-e above and cannot be repeated more than once. A candidate whose thesis is rejected in its entirety by the examiners shall be deemed to have failed the examination and shall not be awarded the degree.

3.74. Progress Reports

1. Each faculty and department shall be required to keep an annual progress report on each candidate showing dates of admission, registration of the title of thesis, names of research committee members; university and External Examiners; satisfaction of the ICT and Language requirement, research ethics, final oral examination, and award of degree.

2. Such Progress Reports on candidates shall be remitted to the Dean of the School of Postgraduate Studies through the Chairman, Faculty Postgraduate Committee, having been completed by supervisor I and head of department at the end of each session.

3.75. Grading System

The mark scored in each course has an equivalent letter grade of A to F and each letter grade has a corresponding numerical value of 4.00 to 0.00 called grade point. See Table 1 below.

<table>
<thead>
<tr>
<th>(i) Credit Units</th>
<th>(ii) Percentile Scores</th>
<th>(iii) Letter Grades</th>
<th>(iv) Grade Points (GP)</th>
<th>(v) Grade Point Average (GPA)</th>
<th>(vi) Cumulative Grade Point Average (CGPA)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vary according to contact hours assigned to each course per week and according to work load carried by student.</td>
<td>70 – 100</td>
<td>A</td>
<td>4</td>
<td>Derived by multiplying i and iv and dividing by total credit units</td>
<td>3.50 – 4.00</td>
</tr>
<tr>
<td>60 – 69</td>
<td>B</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>50 – 59</td>
<td>C</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0 – 49</td>
<td>F</td>
<td>0</td>
<td>2.50 - 3.49</td>
<td>1.40 – 2.49</td>
<td></td>
</tr>
</tbody>
</table>
3.76. Course Credit System:
This should be understood to mean a quantitative system of organization of the curriculum in which subject areas are broken down into unit courses which are examinable and for which students earn credit(s) if passed. The second aspect of the system is that courses are assigned weights referred to as Credit Units.

3.77. Grade Point Average (GPA) and Cumulative Grade Point Average (CGPA)
Performance in any semester is reported in Grade Points Average. This is the average of weighted grade points earned in the courses taken during the semester. The Grade Point Average is obtained by multiplying the Grade Point in each course by the number of Credit Units assigned to that course, and then summing these up and dividing by the total number of Credit Units taken for the semester. Cumulative Grade Point Average (CGPA) is the up-to-date mean of the Grade Points earned by the students in a programme of study. It is an indication of the students overall performance at any point in the training programme. To compute the cumulative grade point average, the total of Grade Points multiplied by the respective credit units for all the semesters are added and then divided by the total number of credit units for all courses registered by the student.

Postgraduate Diploma Classification
The determination of the PGD class shall be based on the Cumulative Grade Point Average (CGPA) earned at the end of the programme.
Distinction.........3.50 - 4.00          Upper Credit......3.00 - 3.49
Lower Credit......2.50 - 2.99          Merit..................2.00 - 2.49
Fail...................0.00 - 1.99

3.80. Suspension of Studentship:
The period of studentship shall include the period after the oral examination (where required) up to the time of Committee's approval of the results. Candidates may be allowed, for good reasons, to suspend their studentship for 2 semesters in the first instance, on the recommendation of their Faculty Postgraduate Committee, through their Head of Department. Candidates applying for such suspension of studentship shall complete prescribed forms obtainable from the School of Postgraduate Studies and pay a “suspension” fee. Suspension for an additional session, if approved, shall attract another fee. The maximum period allowed for
suspension of studentship shall normally be four semesters. Suspension of studentship cannot be made retroactively except in exceptional cases, and even then a suspension fee will have to be paid. Amount of fees will be as specified from time to time by the School of Postgraduate Studies.

3.81. Reactivation of Suspended Studentship
Suspended studentship can be reactivated on completion of prescribed forms obtainable from the School of Postgraduate Studies.

3.82. Lapsed Studentship
A candidate's studentship shall be deemed to have lapsed on the following grounds:
(a) Failure to renew registration in any one session;
(b) Failure to present oneself for examination at the expiration of the approved maximum period.
(c) Inability to complete the requirements for the degree within the approved maximum period.

3.83. Reactivation of Lapsed Studentship
Fees, as prescribed from time to time by the School of Postgraduate Studies, shall be paid per session to reactivate a studentship that has lapsed owing to failure to renew registration. A studentship that has lapsed in this way for two sessions shall not be reactivated. The student concerned should seek readmission. The consequences of lapsed studentship arising from a failure to complete the programme within the approved maximum period are given under the different programmes.

3.84. Withdrawal of Students
1. Voluntary Withdrawal
Conditions for voluntary withdrawal from the university are as follows:

i. A student who wishes to withdraw from the university must notify the Vice Chancellor in writing through the Dean of postgraduate School and the Head of Department.

ii. A student withdrawing from the university is required to give the reason(s) for the effective date of the withdrawal.

iii. A student retains grades earned for the semester examinations preceding the date of voluntary withdrawal.

iv. A student who voluntarily withdraws from the university and who seeks to be re-admitted must send a formal application to, pay the required fee
and receive clearance for readmission.

2. **Withdrawal without Authorization**
A student who withdraws from the university without the approval of the senate will only be considered for readmission after the case has been addressed and the approval of the senate obtained for readmission.

3. **Withdrawal for Health Reasons**
A student may be asked to withdraw for health reasons certified by the University's Director of Health Services or Psychological Services depending on the nature of the illness. Such a student may be readmitted only after a valid medical or psychological report from an approved medical doctor or psychologist showing that the student is medically/psychologically fit to continue the programme.

4. **Disciplinary Withdrawal and Expulsion**
A student suspended on disciplinary grounds will only be readmitted with the approval of the senate. A student may be expelled from the university due to gross misconduct, examination irregularity or any other offence as determined by the laws and regulations of the university. Such a student is given the opportunity to defend him/herself prior to expulsion.

5. **Withdrawal for Academic Reasons**
Any student who scores a Grade Point Average (GPA) of less than 3.0 at the end of one semester shall be placed on probation during the next semester. A student whose GPA or Cumulative Grade Point Average (CGPA) drops below 3.0 at the end of the first academic year or below 3.0 at the end of the other academic years will be required to withdraw from the university after the specified probation period. A student who by reason of having failed to achieve the minimum CGPA, and has been asked to withdraw from the university, may apply for re-admission after one academic year. But if the re-admitted student again fails to achieve the CGPA at the end of the academic year, the student will be required to withdraw finally from the university.

3.90. **Request for Academic Transcript**
The School of Postgraduate Studies sends transcripts to institutions and establishments where they are needed, at the request of the student. Requests are to be made on the prescribed forms obtainable from the School or online.

3.91. **Approval of Departmental and Faculty Requirements**
Specific departmental and faculty requirements, additional to or consequent on these General Regulations shall not be binding unless approved by the senate on the recommendations of the Board of the School of Postgraduate Studies.
3.92. Graduate Assistantship
The School of Postgraduate Studies shall operate a Graduate Assistantship Scheme that will allow postgraduate students to be offered Graduate Assistantship Research Appointments on the recommendations of the departments through the Faculty Postgraduate Committee. A Professor or Reader teaching in the postgraduate programme shall be entitled to recommending a postgraduate student in his or her research area for such appointment, and such appointments shall be subject to the approval of the Board of the School of Postgraduate Studies.

3.93. POSTGRADUATE PRIZES
1. Vice Chancellor's Research Excellence Prize
The Vice Chancellor's research excellence prize is awarded annually to an academic staff of the university adjudged by the Board of the School of Postgraduate Studies to have generated great impetus and made significant contribution to the development of postgraduate training and research. This shall be assessed through initiative in research and supervision, originality, courage in thought and academic leadership. The prize consists of cash award, certificate, medal and citation.

2. Vice Chancellor's Postgraduate Leadership and Research Excellence Prizes
The Vice Chancellor's postgraduate prizes are awarded annually to three postgraduate students of the university adjudged to have during the period of their studies displayed outstanding leadership and research excellence. Each prize consists of a cash award, certificate and citation.

2. Faculty Postgraduate Prizes
Faculty postgraduate prizes are awarded annually to the best graduating doctoral degree students in each of the faculties of the university. Each prize comprises a cash prize and a certificate.
4.00. Academic Integrity
Academic integrity is crucial to the integrity of a university, college or institute; conversely, academic dishonesty undermines the very basis upon which institutions of higher education are organized and function. All students and staff are expected to meet the highest standards of academic integrity in the performance of their academic work. Students and staff are expected to report observed cases of academic dishonesty in others to the Dean of postgraduate school. All reported allegations will be treated with an appropriate level of confidentiality. Toward that end, standards of academic integrity and procedures to enforce these standards fairly are as follows:

4.01. Standards of Academic Integrity
The Standards of Academic Integrity proscribe (but are not limited to) the giving or receiving of unauthorized help in examinations or other assignments, plagiarism and other unacknowledged or undocumented use of source material, and forgery. Students may not re-use their own work without explicit disclosure regarding the nature of its original use and subsequent permission from the professor or lecturer who assessed the work.

4.02. Violations of Standards
A student shall be subject to discipline for any violation of the Standards of Academic Integrity. Staff members shall be subject to reprimand for any violation of the Standards of Academic Integrity.

4.03. Disciplinary Sanctions
Sanctions for violation of academic integrity will include, but not limited to, any one of the following: an official reprimand; a requirement to repeat an assignment, an examination, or a course; a requirement to complete an alternative assignment or examination; a failing grade for an assignment, an examination, or a course; suspension; or expulsion. In the case of a staff member, an official warning, reprimand or dismissal may be administered.

4.04. Examinations Committee
Examination Committee's primary purposes shall be, in accordance with the procedures outlined below, to receive and evaluate evidence of alleged violations of the Standards of Academic Integrity and to make decisions regarding the disposition of such cases and make recommendations to the senate.

4.05. Procedures
In cases of an alleged student violation, these general procedures will be followed:

1. A staff member who believes that a student has violated one or more of the Standards of Academic Integrity will promptly so inform the student and present the student with the reasons for this belief. Such an allegation can be in reference to a student's current coursework submitted for review, the student's prior coursework, or both. The staff member will inform the student's assigned mentor and the Dean through appropriate channel.

2. If, after learning the student's response, the staff member continues to believe that a violation has occurred, the staff member shall proceed in one of two ways:
   A. If the staff member deems the alleged violation to be minor, the staff member may attempt to resolve the matter in a manner satisfactory to both the staff member and the student. If the matter is so resolved, the staff member shall report the matter and its resolution to the Dean. If the student is not satisfied with the staff member's proposed disposition of the allegedly minor violation, the student may independently appeal the issue to the Examinations Committee.

   B. If the staff member deems the alleged violation to be more serious, the staff member will refer the matter to the Examinations Committee, within five calendar days, giving reasons for the staff member's belief that a violation has occurred. In that report, the staff member may recommend a penalty. The staff should make a reasonable effort to discuss the allegation directly with the student (i.e., give the student 14 calendar days to respond to a message, etc.) before referring the matter to the Examinations Committee. Throughout this and any subsequent processes, the student's assigned mentor should be informed of the process.

3. If a staff member refers an alleged violation to the Examinations Committee or if a student dissatisfied with the penalty imposed by a staff for an alleged minor violation appeals to the Examinations Committee, the chairman of the Examinations Committee will inform the student and the staff member in writing within 10 calendar days, and will consult with them as to the necessity for or desirability of a hearing. If a hearing results from this consultation, the Examinations Committee will schedule one as soon as possible, normally within 14 calendar days.
4. Following the hearing, or in the absence of one, the Examinations Committee will promptly decide whether the alleged violation has or has not occurred and will submit a written report of its findings to the senate within 10 calendar days from the Examinations Committee's decision having been made. The report should address whether or not the committee believes a violation has occurred and the decision of a penalty, if any, that it deems appropriate. If it decides that a violation has occurred, the committee will include in its report its decision of a penalty that it considers appropriate. This penalty may be the one recommended.

4.06. Degrees Awarded/Revoked
If evidence arises that an academic degree was earned in violation of the Standards of Academic Integrity, the Examinations Committee may recommend to the senate that the degree be revoked. The decision of the senate is final.

4.07. Plagiarism Prevention
All academic works submitted to the postgraduate school lecturers are subject to checking through Turnitin.com. Students are therefore required to submit their work electronically.

4.10. Research Ethics
Research works are expected to contribute to the advancement of science and of humanity. The researcher has an obligation to carry out the research with respect and concern for the dignity and welfare of the participants and with awareness of government regulations and professional ethics governing the conduct of research. All research must adhere to research ethics requiring respect for the autonomy of the participant, fairness, justice and beneficence. Proposals for all research must be reviewed and approved or granted exempt status by the Institutional Review Board before the commencement of the research. The postgraduate school will maintain an Institutional Review Board (IRB) for this purpose.

4.20. Timely Response Policy
The following procedures concern the timely response to all communications between students, staff and deans. This policy defines the maximum response times for these communications. Thus, they provide a guide for staff to appraise and manage their workload and for students to consider that there is a possible problem and make necessary inquiry about the status of their work. These guidelines should not be interpreted as minimum or expected response times. Staff should endeavor
to respond within shorter duration than those indicated in this policy.

4.21. Policy
1. **Student Communications:** Staff should acknowledge and respond to student communications within five business days. This includes responses to email, official phone calls and postal mail.

2. **Comprehensive Examination:** The result is due within 30 calendar days following the date of the completion of the examination.

3. **Research Project, Thesis and Dissertation:** Correction/feedback on submitted materials or chapters is due to the student within 20 calendar days from receipt.

4.22. Exceptions to Timely Response Policy
When an unexpected or extraordinary circumstance that makes adherence to the policy arise, the staff member is responsible for notifying affected students and their head of department of the circumstance. Properly announced holidays do not counting assessing compliance with this policy. When a staff member attends a university-approved programme, the days taken up by the programme do not count in assessing compliance with indicated times in this policy.

4.30. Intellectual Property
The intellectual property policy of Godfrey Okoye University is designed to accomplish a set of interrelated goals. First, the policy is meant to encourage innovation among students and staff of the university and the university itself. Second, the policy is intended to clarify issues of ownership and other rights in intellectual property in light of changes in the role technology can play in scholarly and creative activities. Third, the policy is designed to enhance the work of the scholarly and creative community at the university. This policy governs intellectual property created in part or in whole by students and staff of Godfrey Okoye University in situations in which the parties have not entered into a written agreement concerning the ownership of intellectual property that has or will be created and the apportionment of revenues and other rights that may be derived from such intellectual property.

A. **Staff Rights** - As an institution devoted to the free and open exchange of ideas among scholars, the university recognizes that, except in the circumstances specifically provided below, members of the staff are entitled to ownership of intellectual property developed in the course of their regular teaching and research work. Such intellectual property includes, but is not limited to, the original expression of ideas and concepts fixed in a tangible medium and includes works of
authorship such as books, curriculum materials, video and audio recordings, photographs, graphics, software, works of art, and other materials. These intellectual property rights are not dependent on the medium of distribution or dissemination of the intellectual property.

B. Student Rights - As an institution devoted to the growth and development of its students, the university recognizes that, except in the circumstances specifically provided below, students are entitled to ownership of intellectual property developed in the course of their regular student work. Such intellectual property includes but is not limited to the original expression of ideas and concepts fixed in a tangible medium and includes works of authorship such as books, curriculum materials, video and audio recordings, photographs, graphics, software, works of art, and other materials.

C. Rights of the University - The university asserts ownership of and rights to intellectual property, including intellectual property created by staff and students, under the following conditions:

1. when the work is created with substantial use of university resources. For the purposes of this section, "substantial use" means the use or commitment of university resources of a nature or beyond the level of resources ordinarily provided to staff and students. "Resources ordinarily provided" includes resources made available to specific groups but not all individuals (e.g., additional travel stipends for staff). Sabbatical leaves do not constitute substantial use of university resources. All competitive university awards, except student dissertations, constitute substantial use of university resources unless otherwise specified in advance,

2. when the work is commissioned by the university

3. when the work is created under the terms of a sponsored project where the terms of the sponsored project require that ownership be in the name of the university,

4. when the work is a work-made-for hire that is not covered in (A) or (B).

4.31. Formal Arrangements
Whenever the university asserts rights pursuant to the provisions of (C), above, the affected staff and/or students will be informed in writing of the university's assertion of rights in a communication that sets forth the intellectual property arrangements intended to govern the particular activity, including the nature of the project, the participation of the relevant parties, and the distribution of any
proceeds derived from the project.

1. **Operating Procedures**

   A. **Obligation Concerning Disclosure** - Staff and any other individuals engaged in activities that result in the creation of intellectual property to which the university may claim ownership and/or rights are obligated to make a prompt disclosure of such activities in writing to the Vice Chancellor.

   B. **Retaining Rights Without Royalty for Academic Uses at the University** - The licensing of books, articles and other non-institutional works is under the control of the staff members who own such works. However, where the creator retains the rights to such works, he or she shall grant the university a nonexclusive royalty-free license for the use of such work within the university, for teaching, research and other noncommercial University purposes. If any article or other such work is to be published, the creator is urged to seek to reserve for both the creator and the university a royalty-free right to use a reasonable portion of the published work within the university, for teaching, research, and other non-commercial university purposes. The right of the university to use such works shall survive the departure of the creators from the university.

   C. **Staff and Student Use of Works Created at and Owned by the University** - Staff members and students who create works that are owned by university under the provisions of this policy shall retain the right to use such works for non-commercial research and instructional purposes. The right of the creators to use their works that are owned by the university shall survive their departure from the university.

   D. **Updating and Correction of Works** - Staff members and students have the right to update and correct works they have created that are owned by the university under the provisions of this policy. The university may, but is not obligated to provide support for such updates or corrections.

   E. **Attribution** - All works created by students and staff at Godfrey Okoye University under the provisions of this policy shall include the names of the creators of the work, unless the creators request in writing the removal of their names.

   F. **Applicability and Amendments** - This policy will govern all matters of intellectual property at the university from the time of its formal adoption. Regular
reports will be issued from the Vice Chancellor.

4.40. Technology Resources
This document sets forth the policies of GO University regarding use of email, Internet and web technologies, telephone, interactive video and/or other electronic communication systems including voicemail, facsimiles, computers, telephones and related equipment, collectively referred to as Technology Resources.

All users of GO University's systems agree by such use to comply with the expectations outlined in this policy. This policy is not new or different, but an extension of the environment within which we already operate. Communication and technology resource policies need to reflect current technical and social environments, which are undergoing rapid development and change. Further, this technology and the social practices that shape its use are changing the nature and boundaries of organizations, personal life, and the public and private domains. In doing so, they are creating areas of social life whose relation to existing informal social norms or public or private policies and laws is not completely clear or resolved. Thus, they call for policies that are regularly and thoughtfully revised to regulate these new, changing areas in a humane and rational way that protects individual and organizational rights and defines individual and organizational responsibilities.

As the media in use or the needs of GO University change, this policy will be updated as necessary.

As an institution founded to support learning, research and the dissemination of knowledge, GO University encourages a free exchange of ideas and information among all of its members and with members of other communities. The tools of communication can be a means of intellectual, social, cultural, emotional and moral growth, but they also can be a means of harassment and destructiveness. The university as a whole finds a compelling need not only to facilitate the free flow of information, but also to encourage civility, to obey the law and to enforce its own policies and standards. Consequently, members of the GO University community are expected to exercise responsibility, use computing resources ethically, respect the rights and privacy of others and operate within the bounds of the law and of GO University's policy and standards.

Information and its related technologies are major institutional resources. GO University's strategy is to incorporate information technology as an integral part of
decision making, competitive positioning, and delivery of services. The availability of policies to govern the use and possible misuse of GO University's computer resources is vital to the integrity of the University. All members of GO University share responsibility for maintaining an environment where actions are guided by mutual respect, integrity, and reason. Abuse of these privileges will be subject to disciplinary action, as established by GO University's operating policies and procedures. GO University reserves the right to limit access to technology resources in response to evidence of violations of this policy or federal, state or local laws. All members of the GO University community are bound by federal, state and local laws relating to civil rights, harassment, copyright, security, pornography, privacy, and other statutes relating to electronic media. It should be understood that this policy does not preclude enforcement under the laws and regulations of Nigeria. It is our goal to reduce the danger of misuse, destruction, or loss of information especially that of a critical or confidential nature. We attempt to accomplish this without restricting academic freedom or complicating access to information for which members of GO University have a legitimate and specific need.

4.41. Who is covered by this Policy?
All users of GO University's technology resources are subject to the provisions of this policy, and are hereinafter referred to as "users" (of technology resources). Use of these technology resources implies consent with this policy, as well as other applicable university policies. For individuals whose access to GO University technology resources is provided primarily for special projects, further policies may apply as governed by the needs of the project.

4.42. Acceptable Use
Everyone issued an account on a GO University system, hereinafter "account," will be expected to adhere to the GO University "Acceptable Use Agreement." Failure to adhere to the "Acceptable Use Agreement" may be grounds for disciplinary action.

4.43. Acceptable Use Agreement
1. The account issued to you by Information Technologies shall be used only in the manner described below. Unless specifically designated for multi-user access when created, the account shall be used only by the person to whom it is issued. You are responsible for the actions of anyone using your account.

2. All passwords issued are to be held privately and securely. Be responsible for all use of your accounts and for protecting each account's password. In other
words, do not share computer accounts. If someone else learns your password, you must change it.

3. The account shall be used only for academic and administrative purposes pertaining to the mission of GO University.

4. The account shall not be used for unauthorized access and/or attempts to access technology resources without proper authorization, regardless of whether the computer, software, data, information, or network in question is owned by the university. (That is, if you abuse the networks to which the university belongs or the computers at other sites connected to those networks, the university will treat this matter as an abuse of your GO University technology resource use privileges.)

5. The user shall not take advantage of another's inexperience or negligence to gain access to any computer account, data, software, or file which he or she has not received explicit permission to access.

6. The user shall not send fraudulent electronic communications, break into another user's account, or gain access to protected information without permission of the owner.

7. The user shall not use GO University's computing resources to harass or threaten other users.

8. Software, other than freeware/shareware, may NOT be copied or distributed, unless permitted by its license (e.g., for backup purposes).

9. The user is responsible for maintaining the security of their own data and for making back-ups of such data.

**4.44. Individual Privileges**
The following individual privileges are extended to all users. However, it is understood that each of these privileges is conditioned upon acceptance of the accompanying responsibilities in "Individual Responsibilities" below.

**A. Free Expression**
There shall be no restrictions placed on the fundamental rights to free speech except those necessary to protect the rights of others and to preserve the order necessary for the university to function as an institution of higher learning. Given the diverse cultural backgrounds of users, GO University cannot protect individuals against exposure to materials that they may consider offensive.
Nevertheless, GO University reserves the right to take restrictive actions in response to complaints that posted material creates a hostile environment for individuals or classes of individuals. GO University also has the responsibility to take restrictive action when a user violates GO University policy or federal, state or local laws.

B. Privacy
Users should not reasonably expect electronic mail correspondence to be treated as confidential. Users should be sensitive to the inherent limitations of shared network resources in protecting privacy. Some examples of this may include printing personal messages on a shared printer, leaving downloaded email or a message or account open on a computer in a public computer lab, etc. Specific personal electronic communications and computer files stored on postgraduate specific controlled systems will not be searched deliberately to seek evidence of malfeasance except in a clearly overriding emergency or as part of a formal investigation by a duly constituted authority. For website management, information is collected for statistical purposes. This information is used to determine usage patterns that have implications for technical design specifications and identifying system performance or problem areas as well as for strategic planning. Personal user information is not made available to external agencies, persons or other institutions except as required by law.

C. Personal Use
Users of GO University technology resources may use them for incidental personal purposes provided that, in addition to the foregoing constraints and conditions, such use does not: (i) directly or indirectly interfere with GO University's operation of electronic communications facilities; (ii) burden GO University with noticeable and avoidable incremental cost; or (iii) interfere with the user's employment or other obligations to GO University.

4.45. Individual Responsibilities
Users of GO University's technology resources accept responsibilities that include, but are not limited to the following specific examples.

A. Respect for Intended Use of Resources
GO University's technology resources should not be used for personal benefit or conducting personal business enterprises in ways that conflict with GO University's mission.

B. Respect for Shared Nature of Resources
Users will not encroach on others' use of GO University's technology resources. No
user should attempt to modify the university system or network facilities or to crash systems. Users should avoid activities that unreasonably affect GO University's technology, resources, including but not limited to: sending an excessive and unreasonable number of messages either locally or over the Internet; participating in electronic chain letters, frivolously printing multiple copies of documents, files or data; excessive game playing; modifying system facilities, operating systems, or disk partitions; or damaging or vandalizing GO University owned, leased or rented computing facilities, equipment, software, or computer files.

C. Respect for Rights of Others
GO University technology resources will not be used to harm, or threaten to harm, the safety of another individual or individuals. The user must comply with GO University policies and federal, state and local laws regarding discriminatory harassment. Examples of violations include, but are not limited to: defamation, violation of privacy; intentionally placing a person or persons in reasonable fear of imminent physical harm; giving or causing to be given false reports of fire or other dangerous conditions; or harassment or discrimination based on race, color, religion, sex, sexual orientation, national origin or citizenship status, age, disability, or veteran status.

D. Unsolicited Communications
Users of GO University's electronic communications facilities may send unsolicited mass communications only when authorized to do so in support of GO University's business and in compliance with GO University guidelines. GO University's guidelines must be consistent with this Policy and laws on electronic solicitation. An unsolicited mass communication is one that is broadly distributed to recipients who have not requested or consented, either explicitly or implicitly, to receive the communication. Voluntary subscription to an electronic communications service implies consent to receive the communications of that service. Email address lists maintained by GO University may not be collected for purposes of solicitations via email.

E. Respect for Intellectual Property
Respect for intellectual labor and creativity is vital to the academic discourse and enterprise. This principle encompasses respect for the right to acknowledgment, and right to determine the form, manner, and terms of publication and distribution. Examples of violations include, but are not limited to: copying copyrighted software without express written permission of the copyright owner; failing to obtain necessary licensing for software or to adhere to all licensing provisions (installation, use, copying, number of simultaneous users, term of license, etc.); plagiarism or inadequate attribution of the intellectual property of others; downloading, sharing or posting of materials such as texts, images, movies,
music or other audio works in disregard of copyright restrictions; or unauthorized publication or distribution of another's work or writing.

4.46. Reporting Violations
In some situations, it may be necessary to suspend account privileges to prevent ongoing misuse while the alleged violation is under investigation. The relevant authority or designee reserves the right to immediate temporary suspension of the account(s) of anyone suspected of a violation, pending the outcome of investigation by the appropriate office. Under normal circumstances, such action will only be taken with the prior notification and concurrence of the program head or direct supervisor. In the case of minor, first time offenses, the relevant authority or designee may choose to resolve the situation informally without reporting the violation to other the Management. Disciplinary decisions and appeals to those actions will be handled according to existing law and GO University's grievance policies and procedures.

4.47. Administration and Implementation
Systems administrators will manage network systems in a manner that is consistent with the system's importance for campus communication and the need for privacy of personal electronic mail messages. In connection with their responsibilities, professional staff members may on occasion need access to or monitor parts of the system and thereby be given access to the contents of certain electronic mail messages. System administrators will respect the privacy of personal communications encountered on the systems. However, if, during the course of routine duties, a system administrator encounters information that indicates that a breach of this policy or criminal act has been or is about to be committed, they will report the existence and source of this information to the proper authorities.

Administrators are not responsible for monitoring user activity or content on any network system. However, when they become aware of violations, either through the normal course of duty or by a complaint, it is their responsibility to refer the matter to the appropriate authority for investigation and possible discipline. To forestall an immediate threat to the security of a system or its users, system administrators may immediately suspend access of the people involved in the violation while the incident is being investigated. They may also take other actions to preserve the state of files and other information relevant to an investigation. Specific personal electronic communications and computer files will not be searched deliberately to seek evidence of malfaeance except when the appropriate authorities have reason to believe that it is necessary in order: to enforce policies regarding harassment and the safety of individuals; to prevent the posting of proprietary software or texts, images, or audio works in disregard of copyright restrictions or contractual obligations; to safeguard the integrity of computers, networks, and data either at the university or elsewhere; and to protect GO
University against seriously damaging consequences.

In general, electronic mail is considered information only for the eyes of the sender and recipient(s). There may be exceptional circumstances where GO University may release an electronic mail to other parties. These situations may include, but are not limited to the death of the account holder, when an absent or terminated employee has received a mail associated with his/her job responsibilities, or during the course of a criminal investigation by authorized legal authorities.

4.48. Purpose of the gouni.edu.ng Domain
The public area of the website is to generate interest of prospective students, promote the university's mission, participate in the academic world, attract favourable media attention and showcase the university's accomplishments. The private area of the site is maintained to support the academic mission of the university, students, alumni and staff.

Note: This Rights and Responsibilities chapter was adapted from that of Fielding Graduate University Academic Catalog 2016-2017.
5.0. Academic Structure
The university operates a faculty system. In this system, the major academic units (departments) are grouped into faculties.
Although all postgraduate programmes shall be located in the various faculties and departments that run the programmes, the Postgraduate School shall be responsible for the overall management of all postgraduate programmes of the university. The School, in collaboration with all faculties, shall outline the guidelines for postgraduate studies in the university and also provide oversight and administrative service for postgraduate studies. The Postgraduate School shall be headed by a Dean and it shall also have a Board to be chaired by the Dean of the School with the deans of all other faculties (or their representatives) as members. The following are the start off faculties and departments:

Faculty of Education
Department of Educational Foundations
Department of Arts and Social Science Education
Department of Science and Vocational Education

Faculty of Management and Social Sciences
Department of Accounting and Finance
Department of Business Management
Department of Economics
Department of Political Science and International Relations
Department of Sociology and Psychology

Faculty of Natural and Applied Sciences
Department of Biotechnology and Applied Biology
Department of Computer Science and Mathematics
Department of Microbiology
Department of Physical and Geo Sciences
FACULTY OF EDUCATION

DEPARTMENT OF EDUCATIONAL FOUNDATIONS
Postgraduate Diploma in Education
M.Ed. Curriculum Development

DEPARTMENT OF LANGUAGE EDUCATION
M.Ed. Language Arts

DEPARTMENT OF SCIENCE AND VOCATIONAL EDUCATION
M.Ed. Measurement and Evaluation
**DEPARTMENT OF EDUCATIONAL FOUNDATIONS**  
**POSTGRADUATE DIPLOMA IN EDUCATION (PGDE) DEGREE PROGRAMME**

**Introduction**  
The Department of Educational Foundations offers students pursuing higher degree, basic and liberal education which will permit them to exercise their functions as intellectual teachers. The Postgraduate diploma in Education (PGDE) programme, is meant for the graduates without education background. The programme exposes them to the basic education courses to enable them pursue higher degrees in education or occupy leadership positions in schools. The programme for the award of the PGDE consists of course work and research project.

**Philosophy**  
The overall Philosophy of Postgraduate programme is in line with Philosophy of Godfrey Okoye University which is based on the nature of the human person as a social and a dialogue – seeking being. From this point of view, the university understands education as a dialogical process of acquisition and dissemination of knowledge. Therefore the programme philosophy is the development of professional educators who are social engineers of change through education, either as professional teachers, researchers or managers of educational institutions.

**Mission**  
The mission of postgraduate programme in education is to produce educators who are empowered intellectually and professionally to sustain and improve our educational system in line with national needs, aspiration and global standards.

**Aim and Objective**  
The aim of this programme is to produce graduates with an in-depth knowledge in education and the professional requirements and competence to adequately teach at appropriate levels of educational system and function effectively in other relevant positions in education.

**Admission Requirements for Postgraduate diploma in Education (PGDE)**  
Basic Admission Requirements for Postgraduate Diploma in Education  
The criteria for admission into the PGDE programme will be as follows:  

a. All candidates must have a first degree not lower than second class lower from a recognized university.  

b. A Higher National Diploma (HND) without education obtained at credit level
with a 3-year relevant post-qualification experience may be considered for admission.

c. Candidates with 3rd class degree in areas other than education may be considered after 3-years relevant post-graduation experience.

Course Outline
First Semester
Course No   Course Title                                      Units
PGD 701   History of Educational Development in Nigeria  2
PGD 703   Sociology of Education                            2
PGD 705   Philosophy of Education                           2
PGD 707   Educational Psychology                           2
PGD 709   Education and Information Technology              2
PGD 710   Educational Administration and Management       2
PGD 711   Teaching Methods                                  2
PGD 715   Curriculum and Instruction I                     2
PGD 717   Special Methods                                  2
Total                                             18

Second Semester
Course No   Course Title                                      Units
PGD 700   Teaching Practice                                 4
PGD 702   Curriculum and Instruction II                     2
PGD 704   Research Methods & Statistics                     2
PGD 706   Test and Measurement                              2
PGD 708   Guidance and Counselling                          2
PGD 712   Projects                                         4
PGD 713   Classroom Organization and Management             2
Total                                             18
COURSE DESCRIPTION

PGD 700 Teaching Practice 4 Units
Students should be provided with opportunity for a period of teaching practice and learning strategies, knowledge, and classroom skills in their subject areas; implementation and application of learning materials in the classroom situation for a period of twelve weeks.

PGD 701 History of Educational Development in Nigeria 2 Units
A study of western educational practices, indigenous education, formal education in Nigeria under colonial governance; different educational ordinance during colonial government; post – independence educational policies and practices; the 6-3-3-4 educational system; Universal Basic Education; the global Education For All (EFA) initiative and its influence on Nigerian education; the role of international organizations in Nigeria education; the National Policy on Education and educational practice.

PGD 702 Curriculum and Instruction 2 Units
This course will expose the students to the following contents: concepts of curriculum and instruction; curriculum planning process; models of curriculum planning; methods of teaching, learning resources, curriculum reforms and agents in Nigeria. Description of domains of educational objective; principles for effective teaching and learning; unit of instruction and lesson plans.

PGD 703 Sociology of Education 2 Units
A discussion of the meaning, scope and methods of studying sociology of education as an academic subject, theories of social interaction and their relevance to educational theory and practice, meaning and types of socialization; agents of socialization like family, peer group and religion, education and culture. The sociology of the school as an agent of social/cultural stability and change. The professional status of teaching in Nigeria. The registration council and professional registration of teachers.

PGD 704 Research Methods in Education 2 Units
The nature and concept of research, types of research, theories in education and problem formulation; techniques for literature review; types of research design and instrumentation; techniques for data preparation and presentation, data analysis and interpretation of results; ability to write research reports.

PGD 705 Philosophy of Education 2 Units
Meanings of philosophy and philosophy of education; scope and methods of
studying philosophy and philosophy of education; a study of ideas of selected educational thinkers like Plato, Rousseau, Azikiwe, Dewey, Nyerere, Aminu Kano, Awolowo, Ukeje; A philosophical examination of teaching, professionalization of teaching, ethics of the teaching profession, discipline in educational practice.

**PGD 706 Tests and Measurement** 2 Units
Concepts, definitions and nature of tests, measurement, evaluation, assessment etc; psychometric properties of test validity, reliability, usability etc.; types of test; guidelines for construction of tests of different types: standardized tests, teacher-made tests, non-cognitive tests etc. Difference between different types of test; test administration, scoring, grading and interpretation of grades; statistics in education e.g. concepts, descriptive and inferential statistics; examination bodies in Nigeria and their roles.

**PGD 707 Educational Psychology** 2 Units
Foundational concepts of learning, study of major theories of learning and their implications for education, general theories and principles of human growth and development with special reference to Nigeria; implications of motivation, retention, readiness, and reinforcement for learning.

**PGD 708 Guidance and Counselling (G&C)** 2 Units
Concepts, philosophy and historical development of Guidance and Counselling in the educational setting in the world and Nigeria especially. It also examines its nature, and objective, theories, methods, strategies, techniques and services. Students needs and problems (educational, vocational and socio-emotional) are x-rayed and surveyed, and coping measures are proffered for treatment purposes. Psychological testing is learnt for assessment and diagnostic purposes. Tools for cumulative records are discussed. Similarly, family, prison, pastoral, industrial, marriage etc. are treated. Counselling practices are briefly examined to enhance holistic and integrated personality development of students at this level.

**PGD 709 Education and Information Technology** 2 Units
The design, process, application and effects of technology on the teaching/learning situation; systematic production, effective use and evaluation of inexpensive and local instructional materials for instructional purposes; concept and application of ICT to teaching; improvisation using local resources and materials.

**PGD 710 Educational Management** 2 Units
The concepts of management, administration, planning, supervision and evaluation; administration and planning in Nigeria; school and classroom management, supervision, inspection, budgeting, funding, recruitment practice, professional development; politics of education, policy implementation, resource
mobilization and utilization; links between the various sections of education such as the Federal Ministry of Education, State Ministry of Education, State Universal Basic Education Board and Local Government Education Authorities.

**PGD 711 Teaching Methods**

*2 Units*

Students should be exposed to techniques of teaching different subjects using different methods appropriate to their areas of specialization. Strategies for lesson and unit planning; statement of instructional objectives; production, utilization and evaluation of suitable instructional materials to concretize the learnt materials.

**PGD 712 Project**

*4 Units*

Students are expected to transfer/apply the knowledge, skill and competencies learnt in the research methods, to write on topical issues in education. This serves as a field experience as they review the existing literature, collect and analyse data and write the research reports.

**PGD 717 Special Methods**

*2 Units*

The special techniques and methods applicable to teaching in the various subjects to students of different age levels. The course will be divided according to teaching fields of students.

LIST OF ACADEMIC STAFF IN POSTGRADUATE DIPLOMA IN EDUCATION

<table>
<thead>
<tr>
<th>S/N</th>
<th>NAME</th>
<th>QUALIFICATION</th>
<th>DESIGNATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Prof A Eze</td>
<td>B. Sc., M.SC (Nig), P.G.D.E, M.ED (ABU), PhD Science Education (Physics, ESUT)</td>
<td>Professor</td>
</tr>
<tr>
<td>3.</td>
<td>Dr. Mrs. V. Mogboh</td>
<td>B.ED, M.ED, PhD Educational Administration</td>
<td>Senior Lecturer</td>
</tr>
<tr>
<td>4.</td>
<td>Dr. C. N. Ebuoh</td>
<td>B.Sc, M.ED, PhD Science Education Measurement &amp; Evaluation</td>
<td>Senior Lecturer</td>
</tr>
<tr>
<td>5.</td>
<td>Dr. Mrs. H. Agusiobo</td>
<td>M.ED, PhD Educational Administration</td>
<td>Lecturer I</td>
</tr>
<tr>
<td>6.</td>
<td>Dr. B. N. Menkiti</td>
<td>M.ED, PhD Educational Psychology</td>
<td>Senior Lecturer (Adj)</td>
</tr>
<tr>
<td>8.</td>
<td>Mrs. B. Anukaenyi</td>
<td>M.ED, Educational Administration</td>
<td>Lecturer II</td>
</tr>
</tbody>
</table>
POSTGRADUATE PROGRAMME IN CURRICULUM DEVELOPMENT

Philosophy
The overall philosophy of postgraduate programme is in line with the philosophy of Godfrey Okoye University which is based on the nature of the human person as a social and a dialogue–seeking being. From this point of view, the university understands education as a dialogical process of acquisition and dissemination of knowledge. Therefore the programme's philosophy is the development of professional educators who are social engineers of change through education, either as professional teachers, researchers or managers of educational institutions.

Mission
The mission of postgraduate programme in education is to produce educators who are empowered intellectually and professionally to sustain and improve our educational system in line with national needs, aspiration and global standards.

Aim and Objectives
The Master of Education (M.Ed) Programme in Curriculum Development is aimed at:

a. Producing Curriculum expert who can design and develop curriculum at all levels of education.
b. Offering practical and advanced guidelines for personal active engagement in Curriculum Development.
c. Developing knowledgeable scholars who will provide leadership in professional practice and intellectual competence in education.
d. Producing educators who are knowledgeable in and committed to the implementation of the national policy on education.
e. Developing competent researchers in educational theory and practice for Nigerian educational system.
f. Empowering educators who can propel social change through education both intellectually, in attitudes, skill, values, and worldviews.
g. Enabling the production of educators who can give Nigeria education a national identity while making it a global context.
h. Producing educators who are committed to transformation of educational delivery through effective application and utilization of ICT in both national and global contexts.
i. Providing education scholars who would teach and provide leadership at different levels of higher education.
j. Providing relevant intellectual capital in education for Nigerian and the rest of the world.
k. Producing educators who would compete with similar scholars from any
part of the world and carry out advanced research.

l. Producing educators with entrepreneurial skills in educational enterprises to enable them to be self-reliant and demonstrate high leadership qualities.

Admission Requirements for Master's Degree (Curriculum)

Basic Admission Requirements for Master's Degree (Curriculum)
For admission into the Master's degree in curriculum programme, the candidate must have one of the following:

a. A good first degree honours in education with a minimum of second class lower division
b. A good first degree honours in other discipline, with a minimum of 2\textsuperscript{nd} class lower division plus postgraduate diploma in education from a recognized university obtained at credit level.
c. Third class honours degree in education plus postgraduate diploma in education at credit level
d. HND with PGDE at credit level

Duration of Programme

a. The full-time Masters degree in education shall run for a minimum of two semesters and a maximum of four semesters.
b. The part-time programme shall run for a minimum of four semesters and a maximum of six semesters.
# Course Outline

## First Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDU 801</td>
<td>Research Methods in Education</td>
<td>2</td>
</tr>
<tr>
<td>EDU 803</td>
<td>Curriculum and National Development</td>
<td>2</td>
</tr>
<tr>
<td>EDU 805</td>
<td>Curriculum Evaluation</td>
<td>2</td>
</tr>
<tr>
<td>EDU 807</td>
<td>Curriculum Innovation</td>
<td>2</td>
</tr>
<tr>
<td>EDU 809</td>
<td>Principle and Curriculum Development</td>
<td>2</td>
</tr>
<tr>
<td>EDU 811</td>
<td>Evolutionary Trend in Curriculum Development</td>
<td>2</td>
</tr>
<tr>
<td>EDU 813</td>
<td>Curriculum Design</td>
<td>2</td>
</tr>
<tr>
<td>EDU 815</td>
<td>Curriculum Models</td>
<td>2</td>
</tr>
<tr>
<td>EDU 817</td>
<td>Contemporary Philosophy of Education</td>
<td>2</td>
</tr>
<tr>
<td>EDU 819</td>
<td>Information and communication Technology</td>
<td>2</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>20</strong></td>
</tr>
</tbody>
</table>

## Second Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDU 802</td>
<td>Statistical Methods in Education</td>
<td>2</td>
</tr>
<tr>
<td>EDU 804</td>
<td>Principle of Curriculum Selection</td>
<td>2</td>
</tr>
<tr>
<td>EDU 806</td>
<td>Psychological Theories in Curriculum Development</td>
<td>2</td>
</tr>
<tr>
<td>EDU 808</td>
<td>Production of Learning and Instructional Materials</td>
<td>2</td>
</tr>
<tr>
<td>EDU 810</td>
<td>Graduate Seminar</td>
<td>2</td>
</tr>
<tr>
<td>EDU 812</td>
<td>Principles of Curriculum Development</td>
<td>2</td>
</tr>
<tr>
<td>EDU 899</td>
<td>Research Project</td>
<td>6</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>18</strong></td>
</tr>
</tbody>
</table>
**COURSE DESCRIPTION**

**EDU 801  Research Methods in Education   2 Units**
Types of research, methods and data; types of instruments; types of procedures for data collection; methods of data analysis; application of computer in data analysis; presentation of results and conclusions.

**EDU 802  Statistical Methods in Education   3 Units**
Review of basic statistical concepts, descriptive parametric inferential and non-parametric statistics. ANOVA, ANCOVA, Regression Analysis Chi-square and statistical technique for post-hoc analysis application of computer in statistical analysis meaning and results of statistics analysis.

**EDU 803  Curriculum and National Development   2 Units**
The role of curriculum in Nigeria development, government participation in curriculum development. Curriculum implementation in view of the national philosophies and aspiration. Curriculum for contemporary development.

**EDU 804  Principle of Curriculum Selection   2 Units**
Selection curriculum content, criteria for selection, organization and sequencing of learning experience, factors influencing the selection of appropriate learning experiences.

**EDU 805  Curriculum Evaluation   2 Units**

**EDU 806  Psychological Theories in Curriculum Development   2 Units**
Relevance of psychological theories to curriculum development. Bloom's taxonomy and curriculum, Piaget, Ausubel, etc. on modern curriculum thought and sequencing.

**EDU 807  Curriculum Innovation   2 Units**
Change, change models and the curriculum, determinant of curriculum. Strategies for affecting curriculum innovations and its consequences to curriculum innovation.
EDU 808 Production of Learning and Instructional Materials 2 Units
Basic theories of instructional communication and their relationship to learning and instructions. Production to assigned instructional materials using photographic, graphic, story boarding and script writing, production skills, students to assist in university media production assignment.

EDU 809 Principles and Curriculum Development 2 Units

EDU 811 Evolutionary Trend in Curriculum Development 2 Units
Concept of curriculum during the progressive era, Curriculum of the progressive movement, Modern concept of curriculum. The school curriculum in a contemporary world of science and technology.

EDU 810 Graduate Seminar 2 Units
Study discussion and debate of selected topics in educational technology survey analysis or research and development in the field. Preparation and class presentation of individual project and reports on different topics relating to the field.

EDU 812 Principles of Curriculum Development 2 Units
Selection of curriculum content, criteria for selection, organization and sequencing of learning experiences. factors influencing the selection of appropriate learning experiences.

EDU 813 Curriculum Design 2 Units
Processes of curriculum design; approaches and principles of curriculum design. Practical design of a given curriculum and trial testing of the curriculum design.

EDU 815 Curriculum Models 2 Units
Meaning of a curriculum model, discussion analysis of existing e.g. objectives or means-ends designs broad-field or integration model; process model. Use of curriculum models to design curricula.

EDU 817 Contemporary Philosophy of Education 2 Units
Meaning of Philosophy, Meaning and Nature of Philosophy of education, Islamic traditional and western Philosophy, A critical review of national policy on education as regards to objective and aims of Nigerian education, Freedom, democracy and self-reliance, Branches of Philosophy of education, Importance of...
Philosophy of education, and it's characteristics, Educational philosophic theories, some philosophical school of thought and their educational implications.

**EDU 899  Research Project**  
6 Units
The students under departmental supervision are expected to undertake an in-depth study of an issue that is of interest to him/her in curriculum.

**EDU 819  Information and Communication Technology**  
2 Units
Concept of Education Management System (EMIS); Nature and use of computers; computer technology concept, basic equipment, programmes and operating system; computer application in data processing: Microsoft office (especially MS word, MS Excel, MS Access) input/out device; criteria for information and data processing in education; theory and practice of data management. Practical work should be emphasized.

**LIST OF ACADEMIC STAFF IN CURRICULUM STUDIES**

<table>
<thead>
<tr>
<th>S/N</th>
<th>NAME</th>
<th>QUALIFICATION</th>
<th>DESIGNATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Prof. Aaron Eze</td>
<td>B. Sc, M.SC (Nig), P.G.D.E, Me d (A BU), PhD Science Education (Physics; ESUT)</td>
<td>Professor</td>
</tr>
<tr>
<td>2.</td>
<td>Prof. C.R. Onyia</td>
<td>M. Ed (2003), Curriculum &amp; Instruction Ph. D 2005</td>
<td>Professor (Visiting)</td>
</tr>
<tr>
<td>3.</td>
<td>Dr. D. Akubuilo</td>
<td>B.Sc, Ed, M.Ed, PhD Curriculum &amp; Methodology</td>
<td>Reader (PT)</td>
</tr>
<tr>
<td>5.</td>
<td>Dr. N. Ozofor</td>
<td>B.Sc 1986, M.Ed 1991, PhD 1995 Science Education Mathematics/Statistics</td>
<td>Senior Lecturer</td>
</tr>
<tr>
<td>6.</td>
<td>Dr. B. N. Menkiti</td>
<td>M.ED, PhD Educational Psychology</td>
<td>Senior Lecturer (Adj)</td>
</tr>
<tr>
<td>8.</td>
<td>Mr. Kingsley Nnakwe</td>
<td>B.Sc. (Ed), M.Sc. Information Technology</td>
<td>Asst. Lecturer (Adj.)</td>
</tr>
</tbody>
</table>
DEPARTMENT OF LANGUAGE EDUCATION

POSTGRADUATE PROGRAMMES IN LANGUAGE ARTS

Introduction
This handbook provides general information for the guidance of postgraduate students who are undertaking training and research in Language Education at Godfrey Okoye University's School of Postgraduate Studies. The postgraduate programme is designed to provide students with advanced knowledge, competence and skill in Language Education.

The theoretical and practical/industrial training offered by the programme are designed to make students professionally competent teachers and leaders in education and industry. The emphasis is on training qualified teachers and educators to handle effectively the specializations in language education in the secondary schools, colleges of education, universities, languages, technology, curriculum development and Arts centres, and the Ministries of Education. The postgraduate programme emphasizes scholarship, in-depth and state-of-the-art knowledge in the specialization area.

The M.Ed. programme is executed through course work and project report. Successful graduates of this programme have career opportunities in education programmes, directorates at the Federal, State and Local Government levels; teaching and research institutions of higher learning, curriculum and instructional material development in Language. They can also be employed in radio, television, and public companies, textile manufacturing companies, and libraries.

Philosophy
The philosophy of Language Education is derived from the philosophy of Godfrey Okoye University which understands education as a dialogical process of acquisition and dissemination of knowledge. This acquisition and dissemination of knowledge is impossible without the enabling medium of effective communication. Hence, the establishment of master's programme. Language Education, which equips our students with excellent language and communication skills and also pedagogical skills that make them versatile and useful in educational institutions and other allied disciplines.

Vision
The vision of the Language Education programme is to train qualified teachers who are sound morally, spiritually and intellectually and in all ramifications so as to produce people of good character who are also strong in learning. With this
background, it is hoped that the graduates would impact same on our youth, who are the leaders of tomorrow, for the sustenance of the human society.

**Mission**
The mission is to produce effective language teachers who can teach and make further research in English Language & Literature (or other languages as may be introduced), in the nation's secondary and tertiary institutions.

**Objectives**
The objectives of the programme are as follows:

i. To produce teachers who have excellent literary and pedagogical skills which enable them to facilitate and enhance the teaching and learning of English in our institutions of learning.

ii. To produce educators who have such linguistic competence that will make them skillful users of the English Language.

iii. To produce leaders with adequate administrative and management skills who coupled with their linguistic competence can boldly contribute to the development of the frontiers of administration and management in education and allied disciplines.

iv. To equip the qualified teachers with adequate knowledge of the full range of the major landmarks in English.

v. To develop knowledgeable scholars who will provide leadership in professional practice and intellectual competence in English.

vi. To produce educators who are knowledgeable in and committed to the implementation of the national policy on education.

vii. To produce educators who are committed to transformation of educational delivery through effective application and utilization of ICT in both national and global contexts.

**Basic Admission Requirements and the Expected Duration of the Programme**

**Admission Requirements**
Candidates for the Master's Degree in Language Education must have one of the following:

a. A good first degree honours in English Language Education with a minimum of second class lower division.

b. A good first degree single honours in English and Literary Studies with a minimum of 2nd Class lower division plus Postgraduate Diploma in Education from a recognized University obtained at credit level.

c. Evidence of NYSC discharge certificate or exemption/exclusion certificate is required.

**Requirements for Graduation**
A candidate must fulfil the following conditions to be awarded the Postgraduate Diploma in Education:

<table>
<thead>
<tr>
<th>Credit Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Credit Units</strong></td>
</tr>
<tr>
<td>Pass 11(eleven) core courses of 2 credit units each</td>
</tr>
<tr>
<td>Undertake a three-month practical teaching</td>
</tr>
<tr>
<td>A project in the area of specialization/teaching subject</td>
</tr>
<tr>
<td><strong>Total</strong></td>
</tr>
</tbody>
</table>

With regard to Postgraduate Diploma project report, an External examiner shall read and guide the report. The final grade for the report shall be as moderated by the external examiner.

**Areas of Specialization**

English Language

**Other Areas of Specialization in View**

French Language
German Language
Nigerian Language
**Course Outline**

**Education Core Courses**

<table>
<thead>
<tr>
<th>Course No</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDU 801</td>
<td>Research Methods in Education</td>
<td>2</td>
</tr>
<tr>
<td>EDU 802</td>
<td>Statistical Methods in Education</td>
<td>3</td>
</tr>
<tr>
<td>EDU 803</td>
<td>Information and Communication Technology</td>
<td>2</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>7</strong></td>
</tr>
</tbody>
</table>

**Language Education Courses**

**First Semester**

<table>
<thead>
<tr>
<th>Course No</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDA 820</td>
<td>Theories of Language Development</td>
<td>2</td>
</tr>
<tr>
<td>EDA 821</td>
<td>Skills of Language Acquisition</td>
<td>2</td>
</tr>
<tr>
<td>EDA 823</td>
<td>Issues in Language Education</td>
<td>2</td>
</tr>
<tr>
<td>EDA 825</td>
<td>Foundations of Nigerian Education</td>
<td>2</td>
</tr>
<tr>
<td><strong>Courses from the Language/Literature (Specialization)</strong></td>
<td><strong>12</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>20</strong></td>
</tr>
</tbody>
</table>

**Second Semester**

<table>
<thead>
<tr>
<th>Course No</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDA 822</td>
<td>Methods and Resources for Language Education</td>
<td>2</td>
</tr>
<tr>
<td>EDA 824</td>
<td>Curriculum Development in Language Education</td>
<td>2</td>
</tr>
<tr>
<td>EDA 826</td>
<td>Seminar in Language Education</td>
<td>3</td>
</tr>
<tr>
<td>EDA 898</td>
<td>Practicum in Language Education</td>
<td>2</td>
</tr>
<tr>
<td>EDA 899</td>
<td>Project</td>
<td>6</td>
</tr>
<tr>
<td><strong>Courses from the Language/Literature (Specialization)</strong></td>
<td><strong>12</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>21</strong></td>
</tr>
</tbody>
</table>

**Electives**

<table>
<thead>
<tr>
<th>Course No</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDA 827</td>
<td>Reading and Literacy</td>
<td>2</td>
</tr>
<tr>
<td>EDA 828</td>
<td>Linguistics and English Language Education</td>
<td>2</td>
</tr>
<tr>
<td>EDA 829</td>
<td>Linguistics and Mother Tongue Education</td>
<td>2</td>
</tr>
<tr>
<td>EDA 830</td>
<td>Linguistics and Foreign Languages Education</td>
<td>2</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>21</strong></td>
</tr>
</tbody>
</table>
COURSE DESCRIPTION

EDU 801 Advanced Research Method 3 Units
The nature and purpose of research: categories of research activities; descriptive, historical, philosophical and experimental research in education; the nature are sources of educational problems; definition and formulation; assumptions, hypotheses construction; writing research proposal; theoretical and conceptual framework; literature review: techniques, need and organization; research bias and ethics (political, economic religious and cultural); objectivity and cross-cultural applications. Issues in educational research, sampling theory; techniques and description of sample: principles of research design and design types; Instrumentation: sources of education data: observation questionnaires, interviews, case studies, ethnographic studies; problems of validity and reliability; choice of analytical tools; presentation and interpretation of result writing research reports. Candidates must be encouraged to demonstrate practice statistics in various phases of this course the result of which must be presented and critiqued in class.

EDU 802 Advanced Educational Statistics 3 Units
In interview of descriptive statistics; review of parametric and non-parametric statistics such as t-test, analysis of variance and co-variance (one way and two way), chi-square test, sign test, Mann Whitney U Test, Regression Analysis, factor analysis, Multivariate AVOVA, Path Analysis, Discriminant analysis. Knowledge of the analytical software packages in education is also necessary.

EDU 803 Information and Communication Technology 3 Units
Concept of Education Management Information System (EMIS); nature and use of computers; computer technology concept, basic equipment, programmes and operating systems; computer applications in data processing; Microsoft Office especially MS Word, MS Excel, MS Access) input/output devices; criteria for computation and data processing in education; theory and practice of data management. Practical work should be emphasized.

EDA 820 Theories of Language Development 2 Units
This course exposes the students to the theories of language development and their implications to language teaching and learning at the primary secondary and tertiary levels of the Nigerian Educational System.

EDA 821 Skills of Language Acquisition 2 Units
In this course, the students will be exposed to the critical analysis of listening, speaking, reading and writing skills, their inculcation in the learners and their evaluation.
EDA 822  Methods and Resources for Language Education  2 Units
This contains major pedagogical principles and approaches in the teaching and learning of languages at the primary, secondary and tertiary levels of education in Nigeria. It also involves identification, acquisition and application of resources in the teaching of languages at different levels of Education in Nigeria.

EDA 823  Issues in Language Education  2 Units
This course will expose the students to the language policy in Nigeria, National Policy on Education, and implication of the policies. Issues such as language interference, psychological concepts applicable to language acquisition and language problems in Nigeria will be examined.

EDA 824  Curriculum Development in the English Language and Literature  3 Units
English in Education in Nigeria, Principles of ELT. Determinants of ELT syllabus design, practical experiences in the development of English Language curriculum for selected levels of education.

EDA 825  Foundations of Nigerian Education
A survey of the traditional, historical, political and social foundations of Nigerian education; a critical assessment of the contributions of the various educational traditions and agencies to educational development in colonial and independent Nigeria.

EDA 826  Seminar in Language Education  2 Units
This involves the study and interpretation of social, economic and technological influence in language education. A researched paper is required where students write on relevant topic in language education for presentation.

EDA 827  Reading and Literacy  2 Units
The psycholinguistics determinants of reading. Reading problems. Teaching beginning, intermediate and advanced reading skills. Social functions of literacy.

EDA 828  Linguistics and the English Language Teaching  2 Units
Applied Linguistics, Linguistics principles in the teaching of specific language skills; grammatical models and language teaching.

EDA 829  Linguistics and Mother Tongue Education  2 Units
Linguistics theories and models and mother tongue teaching. Phonology, syntax, morphology, the semantics, and mother tongue teaching.

EDA 829  Linguistics and Foreign Languages Education  2 Units
Linguistics theories and models and foreign languages (specifically, French and German) teaching. Phonology, syntax, morphology, semantics foreign language teaching.

EDA 898 Practicum in Language Education 3 Units
This course will expose students to the practical aspects of language education and deepen their competences in the oral skills of pronunciation, stress, intonation, as well as in the methods of language instruction.

EDA 899 Master's Thesis 6 Units
This is an embodiment of the Master's thesis. Its evaluation will be based both on a proposal approved by the Faculty and the final project report. The registration for this research work should be effected at the beginning of the session during which the candidate intends to present the completed project for the final examination.

LIST OF ACADEMIC STAFF IN LANGUAGE EDUCATION

<table>
<thead>
<tr>
<th>S/N</th>
<th>NAME</th>
<th>QUALIFICATION</th>
<th>DESIGNATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Anieke, Christian</td>
<td>PhD, M.A. Comparative Literature</td>
<td>Professor</td>
</tr>
<tr>
<td>2.</td>
<td>Egudu, R. N.</td>
<td>PhD, M.A., Poetry</td>
<td>Professor (Adj.)</td>
</tr>
<tr>
<td>3.</td>
<td>Ezugu, M. A.</td>
<td>PhD, M.A. Literature</td>
<td>Professor (Adj.)</td>
</tr>
<tr>
<td>4.</td>
<td>Onuigbo, Sam</td>
<td>PhD, M.A. Language</td>
<td>Professor (PT)</td>
</tr>
<tr>
<td>5.</td>
<td>Agwu, S. N.</td>
<td>PhD, M.A.Ed. Language Education</td>
<td>Professor (PT)</td>
</tr>
<tr>
<td>6.</td>
<td>Rev. Fr. D. Nwobodo</td>
<td>B.Phil; M.Ed, PhD, Philosophy of Education</td>
<td>Senior Lecturer (Adj)</td>
</tr>
<tr>
<td>7.</td>
<td>Ene, F. N.</td>
<td>PhD, M.A.Ed. Language Education</td>
<td>Senior Lecturer</td>
</tr>
<tr>
<td>8.</td>
<td>Igwebuike, Ebuka</td>
<td>PhD, M.A.Ed. Language</td>
<td>Senior Lecturer</td>
</tr>
</tbody>
</table>
DEPARTMENT OF SCIENCE AND VOCATIONAL EDUCATION
POSTGRADUATE PROGRAMMES MEASUREMENT AND EVALUATION

Introduction
This handbook provides general information for the guidance of postgraduate students who are undertaking training and research in Education at the school of Postgraduate Studies, Godfrey Okoye University, Enugu. The Department of Science and Vocational Education offers students higher degree, basic and liberal education which will permit them to exercise their functions as intellectual teachers. Teaching is incomplete without testing. A large component of the teacher education programmes consists of pedagogy, leaving very little time for development of skills in psychometrics. In order to improve these skills, it is necessary to provide opportunities for teachers to advance their profession through advanced specialized programme in Measurement and Evaluation.

The programme of Masters of Education in Measurement and Evaluation is intended to provide these specialized skills to teachers and professionals in educational institutions and examining bodies. Developing measurement skills among teachers is one of the strategies of minimizing the large margin of error inherent in tests as tools of measuring students' achievement. This programme is therefore designed to meet the current and pressing demands for highly skilled professionally qualified educators and educationist who require further qualifications for their work in the area of Measurement and Evaluation and who can assume leadership in government, schools, colleges of education and universities.

Philosophy
The overall philosophy of postgraduate programmes in Education is the development of professional educators who are social engineers of change through education either as professional teachers, researchers or managers of educational institutions and end-user organizations.

Mission Statement
To set minimum academic standards for preparing educators who are empowered intellectually and professionally to sustain and improve the
Nigerian educational system in line with national needs, aspirations and global standards.

**Aims and Objectives**
The main objective of the programme is to develop human resource capacity with practical and conceptual skills in test development and measurement of students' achievement so as to empower practitioners in the education sector. The programme aims to achieve the following specific objectives:

i. To build capacity on testing and measuring students' achievement.
ii. To build capacity in the monitoring of educational outcomes in the school system.
iii. To promote skills and techniques to conduct research in Measurement and Evaluation.
iv. To prepare learners to participate in policy making and teaching Measurement and Evaluation in higher education institutions.

**Admission Requirements**
Candidates for the Master's Degree in Science Education must have one of the following:

a. A good first degree honours in Science Education with a minimum of second class lower division.

b. A good first degree honours in other disciplines with a minimum of 2\textsuperscript{nd} Class lower division plus Postgraduate Diploma in Education from a recognized University obtained at credit level.

c. A HND with PGDE at credit level.

d. In all cases, candidates may be expected to undergo a selection process involving tests and/or interviews.

e. Evidence that they meet the matriculation requirements of the University of their choice. Evidence of NYSC discharge certificate or exemption/exclusion certificate is required.

**Duration of Programme**

a. The full-time Master's Degree in Science Education shall run for a minimum of four semesters and a maximum of six semesters.

b. The part-time programme shall run for a minimum of six semesters and a maximum of eight semesters.

c. For extension beyond the maximum period, a special permission of the University Senate shall be required.
## Course Outline

### First Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDU 801</td>
<td>Research Methods in Education</td>
<td>2</td>
</tr>
<tr>
<td>EDU 802</td>
<td>Statistical Methods in Educational Research</td>
<td>3</td>
</tr>
<tr>
<td>EDU 803</td>
<td>Curriculum and National Development</td>
<td>2</td>
</tr>
<tr>
<td>EDU 819</td>
<td>Information Communication and Technology in Education</td>
<td>2</td>
</tr>
<tr>
<td>SVE 805</td>
<td>Educational Measurement and Test Construction</td>
<td>2</td>
</tr>
<tr>
<td>SVE 861</td>
<td>Advanced Statistical Methods in Education</td>
<td>2</td>
</tr>
<tr>
<td>SVE 862</td>
<td>Formative and Summative Evaluation of Achievement and Programme</td>
<td>2</td>
</tr>
<tr>
<td>SVE 863</td>
<td>Experimental Research Design</td>
<td>2</td>
</tr>
<tr>
<td>SVE 864</td>
<td>Intelligence and Aptitude Testing</td>
<td>2</td>
</tr>
</tbody>
</table>

**Total Credits** 16

### Second Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDU 810</td>
<td>Graduate Seminar</td>
<td>2</td>
</tr>
<tr>
<td>EDU 899</td>
<td>Dissertation/Thesis</td>
<td>6</td>
</tr>
<tr>
<td>SVE 865</td>
<td>Validity and Reliability of Research Instrument</td>
<td>3</td>
</tr>
<tr>
<td>SVE 866</td>
<td>Practicum Instrument Construction</td>
<td>3</td>
</tr>
<tr>
<td>SVE 867</td>
<td>Development and Standardization of Instrument</td>
<td>3</td>
</tr>
<tr>
<td>SVE 869</td>
<td>Item response and critical test theories</td>
<td>2</td>
</tr>
</tbody>
</table>

**Total Credits** 19
COURSE DESCRIPTION

EDU 801  Research Methods in Education  2 Units
Types of Research, methods and data, literature meaning, types, sources etc, and literature review, research design. Types of Instruments; types of procedures for data collection; methods of data analysis; application of computer in data analysis; presentation of results and conclusion; basic concepts in research (variables, research questions, hypothesis, population, sample and sampling techniques etc. – meaning, types and function.

EDU 802  Statistical Methods in Education Research  3 Units

EDU 803  Information and Communication Technology  2 Units
Concept of Education Management Information System (EMIS); Nature and use of computers; Computer technology concept, basic equipment, programmes and operating systems; Computer applications in data processing: Microsoft Office (especially MS Word, MS Excel, MS Access) input/output devices; Criteria for information and data processing in education; Theory and practice of data management. Practical work should be emphasized.

EDU 805  Educational Measurement and Test Construction  2 Units
Measurement, scale and scaling models, theory of measurement error, test construction procedures, item writing, analysis and assembly in achievement, aptitude and no-cognitive tests; reliability and validity of tests, practical work in test construction.

EDU 810  Graduate Seminar  2 Units
Study, discussion and debate of selected topics in Educational Technology….. analysis or research and developments in the field. Preparation and class presentation individual projects and reports on different topics relating to the field.
EDU 899  Research Project  6 Units
Selection and completion of a project in curriculum development under the guidance of a supervisor and the presentation of the project report.

SVE 861  Advanced Statistical Methods in Education  2 Units

SVE 862  Formative and Summative Evaluation of Achievement and Programmes  2 Units
The concept of formative and summative evaluation as applied to cognitive, affective and psychomotor achievement of students in an educational programme. Evaluation of programmes, innovation, organizations and institutions.

SVE 863  Experimental Research Design  2 Units
Introduction to experimental research design (e.g randomized designs, the Latin Square, the factorial design and the split plot design) and the use of relevant statistical techniques, including the analysis of variance (ANOVA) and analysis of covariance (ANCOVA)

SVE 864  Intelligence Aptitude Testing  2 Units
Concepts of intelligence and aptitude. Historical development of intelligence testing. Theoretical foundations of intelligence/aptitude testing construction, validation and standardization of intelligence/aptitude tests.

SVE 865  Validity and Reliability of Research Instrument  3 Units
Concepts of validity, kinds of validity. Reliability of concepts in research, kinds of reliability and the mathematical relation for each kind. The robustion of the types.

SVE 866  Development and Standardization of Instrument  3 Units
A review of the theoretical framework for standardizing a test. The candidate should construct an achievement test in his area of specialization and standardize it. He should at least present three seminars at relevant stages in the standardization process one after validating and trial testing the test, and another at the end of standardization. One or more seminar should be in between.

SVE 869  Item Response and Critical Test Theories  2 Units
Concept of item response theory (IRT). A, b, and c parameters. Uses and application of IRT. Concepts of critical test theory (CTT). Uses and application of
CTT. Comparisons between IRT and CRT. Merits and demerits of each.

<table>
<thead>
<tr>
<th>S/N</th>
<th>NAME</th>
<th>QUALIFICATION</th>
<th>DESIGNATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Prof. Ebonyi, O.S.</td>
<td>B.Sc. (Bio. Ed) M. Ed (Science Education) PhD Measurement/Evaluation</td>
<td>Professor (PT)</td>
</tr>
<tr>
<td>2</td>
<td>Prof. Eze, Aaron E.</td>
<td>B.Sc., M.Sc (Nig) P.G.D.E, M.Ed (ABU) PhD (ESUT) Science Edu. (Physics)</td>
<td>Professor</td>
</tr>
<tr>
<td>4</td>
<td>Ozofor, N.</td>
<td>B.Sc. (Statistics/Ed), M.Ed.(Maths/Ed) PhD (Maths/Ed)</td>
<td>Senior Lecturer</td>
</tr>
<tr>
<td>5</td>
<td>Ude, Veronica Chinonyelum</td>
<td>B.Sc.(Ed), (Nig), M.Ed, PhD (Bio.Ed) Science Edu (Biology)</td>
<td>Lecturer I</td>
</tr>
<tr>
<td>6</td>
<td>Ozommadu, Eric</td>
<td>B.Sc. (Ed); M.Ed Maths Edu.</td>
<td>Lecturer I</td>
</tr>
<tr>
<td>7</td>
<td>Okoye, A.C.</td>
<td>B.Sc. (Ed/Economics), M.Ed, PhD Measurement &amp; Evaluation</td>
<td>Lecturer I</td>
</tr>
</tbody>
</table>
FACULTY OF MANAGEMENT AND SOCIAL SCIENCES
POSTGRADUATE PROGRAMMES

DEPARTMENT OF ACCOUNTING AND FINANCE
PGD in Accounting
MBA in Accounting
M.Sc. in Accounting
PhD in accounting
PGD in Banking and Finance
MBA in Banking and Finance
M.Sc. in Banking and Finance
PhD in Banking and Finance

DEPARTMENT OF BUSINESS MANAGEMENT
PGD in Management
M.Sc. in Management
M.Sc. in Operation Management
PhD in Management
PGD in Public Administration
M.Sc. in Public Administration
PhD in Public Administration

DEPARTMENT OF ECONOMICS
PGD in Economics
M.Sc. in Economics
PhD in Economics

DEPARTMENT OF POLITICAL SCIENCE AND INTERNATIONAL RELATIONS
PGD in International Relations
M.Sc. in International Relations
MIR in International Relations
PhD in International Relations
PGD in Political Science
M.Sc. in Political Science
PhD in Political Science

DEPARTMENT OF SOCIOLOGY AND PSYCHOLOGY
Postgraduate Certificate in Psychology
M.Sc./PhD in Applied Social Psychology
M.Sc./PhD in Clinical Psychology
M.Sc./PhD in Economic Psychology
M.Sc./PhD in Engineering Psychology
M.Sc./PhD in Forensic Psychology
M.Sc./PhD in Media Psychology
M.Sc./PhD in Psychology of Religion
DEPARTMENT OF ACCOUNTING AND FINANCE
POSTGRADUATE PROGRAMMES IN ACCOUNTING

Introduction
The Accounting programme in the School of Postgraduate Studies of Godfrey Okoye University will contribute meaningfully to the development of the managerial skills, expertise and competence of world class managers, leaders in industry, commerce and government. One of the sure ways of achieving this desire is through a comprehensive purposeful higher education. It is in order to realize this that the programme offers Postgraduate Diploma (PGD), Master of Business Administration (MBA), Master of Science (M.Sc) and Doctor of Philosophy (PhD) in Accounting.

Philosophy
The general philosophy of programmes in Accounting is to provide postgraduate education and training in the various areas of Accounting, which develops and deepens the spirit of enquiry and responsibility in the postgraduate students, to take on research, teaching and accounting responsibilities, in public and private sectors of the nation and global economies.

Objectives
The general objectives of Postgraduate programmes in Accounting are to:

a. Provide training in research at the university and other institution and for those who may have to operate in research and development environments in the public and private sectors.

b. Provide training aimed at improving and upgrading the existing and potential human resources for national development.

4. Admission Requirements
i. Postgraduate Diploma Programme: Provided the matriculation requirements are satisfied;

a. Five credit passes including English Language and Mathematics at the Ordinary level.

b. Relevant Bachelor's Degrees not lower than Third Class Division from a recognized university.

C. Bachelor's Degrees with at least Second Class Lower Division in areas not related to Administration may be considered.

D. Higher National Diploma at Upper Credit level.
E. Relevant professional qualifications.

ii. **Master's degree.**

Provided the university's matriculation requirements are satisfied;

a. Degree in relevant area from a recognized university with a minimum of Second Class Lower Division may be admitted provided the university's matriculation requirements are satisfied;

b. A postgraduate diploma at Upper Credit Level in relevant area from a recognized university.

iii. **Doctor of Philosophy (PhD) Degree**

Provided that University's Matriculation requirements are satisfied; Relevant Master's Degree with at least an average of B grade (60%) which includes: course work and research thesis from a recognized university.

5. **Duration**

The duration for the various programmes shall be as follows:

i. **Postgraduate Diploma Programme (PGD)**

a. Full time Diploma: Minimum of two (2) semesters and a maximum of four (4) semesters.

b. Part-time Diploma: minimum of four (4) semesters and a maximum of six (6) semesters.

ii. **Master's degree programme**

a. Full-time: A minimum of four (4) semesters and a maximum of six (6) semesters.

b. A minimum of six (6) semesters and a maximum of eight (8) semesters.

iii. **Ph.D Programme**

a. Full-time: A minimum of six (6) semesters and a maximum of ten (10) semesters.

b. Part-time: A minimum of ten (10) semesters and a maximum of twelve (12) semesters.

c. For extension beyond the specified maximum period, a special permission of the Postgraduate Board shall be required.

6. **Requirements for Student Supervision**

The requirements for supervision of Postgraduate students shall be as follows:

I. A supervisory committee shall consist of a minimum of 1 and a maximum of 2 supervisors for each Postgraduate student on the master programmes and a minimum of 2 and maximum of 3 for doctoral degree programmes. One of the supervisors shall be designated the main supervisor and chairman, supervisory committee; and others, co-supervisors.
ii. All lecturers qualified to teach post graduate courses and who are not registered postgraduate students shall be eligible to supervise Master's Degree candidates. For the PhD, supervisors must be of a rank not lower than senior lecturer and must not be registered postgraduate students.

7. Workload
Definition: A unit of workload consists of one hour lecture per week for 15 weeks (one semester).

a. No course shall carry less than 2 credit units.
b. A Postgraduate Diploma shall have a minimum of 28 Credit Units of workload broken into 24 credit units of course work and 4 credit units of project report.
c. A Master's Degree Programme shall have a minimum workload of 36 credit units broken into 30 credit units of course work and 6 credit units of dissertation/thesis.

(i) A Ph.D Degree programme shall have a minimum workload of 30 credit units broken into 18 credit units of course work and 12 credit units of dissertation.

(ii) A Ph.D student from other recognized universities shall be allowed a credit transfer of not more than 18 credit units passed with a minimum of B grade at the Master's Degree level.

8. Examinations
Course work
(a) For all postgraduate course work, the minimum pass score shall be 50%; continuous assessment shall constitute 30% of the examination for each course.
(b) To be in good standing, a student must in each semester have a cumulative Grade Point Average (CGPA) of not less than 3.00.
(c) A student whose cumulative Grade Point Average is below 3.00 at the end of a particular year of study, shall be placed on probation for one academic session.

NOTE: Scoring and grading of courses shall be as follows:

<table>
<thead>
<tr>
<th>Marks</th>
<th>Letter Grades</th>
<th>Grades Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>70 and above</td>
<td>A</td>
<td>5</td>
</tr>
<tr>
<td>60 – 69</td>
<td>B</td>
<td>4</td>
</tr>
<tr>
<td>50 – 59</td>
<td>C</td>
<td>3</td>
</tr>
<tr>
<td>Below 50</td>
<td>F</td>
<td>0</td>
</tr>
</tbody>
</table>
**Thesis/Dissertation**

A panel of examiners shall be constituted to assess a thesis or dissertation.

**Evaluation of Project Report:**

1) Postgraduate Diploma Project Report should be subjected to moderation by an external examiner.

2) Master's Thesis/Dissertation shall be through the following:

**Panel of Examiners**

a) Head of Department (Chief Examiner)
b) External Examiner (Chairman, Panel of Examiners)
c) Supervisors
d) Representative of Postgraduate School

3) PhD Thesis

**Panel of Examiners**

a. Head of Department (Chief Examiner)
b. External Examiner (Chairman, Panel of Examiners)
c. Supervisors
d. One other member who is not below the rank of a senior lecturer with PhD from a related Department within the University to be appointed by the Department subject to the approval of postgraduate school.
e. A representative of the postgraduate school board

**9. Academic Regulations**

i. **Academic Session**

An academic session consists of two semesters. Each semester normally comprises 15 weeks of teaching and two weeks of examinations.

ii. **Course Unit System**

All postgraduate programmes shall be run on a course unit system.

iii. **Definition of credit or unit**

Credits are weights attached to a course. One credit is equivalent to one hour per week per semester of 15 weeks of lectures or tutorials or three hours per week of term paper work/laboratory work/practical's per semester of 15 weeks.
iv. **Registration Procedure**
Students shall normally complete registration for courses of the programme not later than two weeks after the start of the semester. A student cannot withdraw from a taught course after a third of it has been given without permission from the Head of Department. A student who withdraws after this time or who fails to sit for the final examination without reasons acceptable to the senate shall be deemed to have failed that course.

v. **Attendance**
In order to be eligible for examination in a particular taught course, a student shall have attended a minimum of 75% of the total period of formal instructions delivered for the course.

10. **Academic Programmes**
1) **POSTGRADUATE DIPLOMA (PGD) IN ACCOUNTING**

a. **Philosophy:**
The general philosophy of Postgraduate Diploma Programme is to provide opportunity for basic knowledge in accounting for graduates of universities or equivalent qualifications of those who did not have their first degrees in Accounting for higher studies in the profession and/or necessary managerial positions.

b. **Objectives of Postgraduate Diploma in Accounting are:**
i. To expose students to core areas in accounting
ii. To equip students with necessary knowledge that will assist them in decision making.

2) **MASTER OF BUSINESS ADMINISTRATION (MBA) IN ACCOUNTING**

a. **Philosophy:**
The philosophy of Master of Business Administration (MBA) Programme in Accounting is to provide the necessary managerial skills for all categories of managers of public, private and international organizations.

B. **Objectives**
The objectives of this programme are:
1. To provide a platform for matching current accounting theories with practical problems confronting organizations.
2. To develop the skills of students in critical thinking analysis and of complex issues in accounting.

3. To provide students with adequate knowledge and skills to enhance their performance and enable them assume broader responsibilities in the ever changing business environment.

4. To produce managers with entrepreneurial skills and leadership qualities.

c. Admission Requirements
The basic admission requirements into the MBA Programme in Accounting are as follows:

i. Candidates must have five credit passes including English, Mathematics at the O’ level.

ii. Candidates with Bachelor’s Degree from an approved University must have a minimum of second class lower division.

iii. All candidates must have a minimum of one year managerial /administrative experience.

iv. Candidates with Postgraduate Diploma from a recognized University and who have passed with a minimum of Upper Credit may be considered for admission, provided the University's matriculation requirements are satisfied.

Holders of HND and or/ professional qualifications are eligible for admission but must go through a mandatory nine months postgraduate diploma in the university provided they meet the basic University entry qualification.

3) MASTER OF SCIENCE (M.Sc.) IN ACCOUNTING

a. Philosophy.
The programme seeks to deepen Postgraduate education and training in accounting so as to enhance the intellectual knowledge of students in the discipline in order to have the required capacity for quality research and be able to apply research results to practical accounting issues.

b. Objectives.
The objectives of the programme are designed to:

i. Inculcate the requisite intellectual / conceptual foundations that will permit meaningful participation in the discussion or resolution of problems which confront the accounting discipline in the contemporary world.
ii. Encourage research into problems which impede the maximum contribution of accounting to national development and well-being of the people.

iii. Develop skill in logical reasoning and critical analysis and improve the capacity of students in formulating sound accounting policies and strategies.

c. Entry Qualifications.

- A good degree (at least second class lower division) in accounting from a recognized University, provided the university matriculation requirements are satisfied.
- A Postgraduate Diploma in accounting at Upper Credit from a recognized University.

Course Structure

The programme requires a minimum of 30 credit units offered in two semesters. Seven courses are offered in the first semester while six courses and a research project work are offered in the second semester. With the exception of the research project work which carries 4 credit units, all courses are assigned 2 credit units.

Course Structure.

- The M.Sc Programme requires a minimum of 36 credit units made up as follows:
  - Core courses: 24 Units
  - Three courses from area of concentration (Two credits each): 6 Units
  - Thesis: 6 Units
  - Total: 36 Units

4. DOCTOR OF PHILOSOPHY (Ph.D) IN ACCOUNTING

a. Philosophy

The programme is aimed at producing highly skilled, theoretically knowledgeable and competent individuals who will be useful to the needs of their community. It is expected that application of doctoral knowledge will be useful in solving managerial and industrial problems of our present day society.

b. Objectives

The doctoral programme in Accounting is designed to provide specialist education and training for researchers, in tertiary institutions as well as for high level business managers. It requires general familiarity with critical knowledge of the various segments in the accounting discipline. A successful completion of the doctoral programme requires an ability to make full and intensive use of concepts, tools, modern accounting techniques and an ability to communicate these to other people. In other words, the doctoral graduate should be able to impart his or her knowledge to others as
colleagues, subordinates or students.

c. Admission Requirements:
   A good M.Sc. degree in Accounting with at least an average of B grade (60%) which includes course work and thesis / dissertation.

d. Course Structure
   The Ph.D Programme requires a minimum of 36 credit units made up as follows:
   Six Core Courses (3 credits each)  18
   Two Courses from area of concentration (3 credits each)  6
   Thesis  12
   Total  36

ACADEMIC PROGRAMMES

Course Structure
   The programme requires a minimum of 30 credits units offered in two semesters. Seven courses are offered in the first semester while six courses and a research project work are offered in the second semester. With the exception of the research project work which carries 4 credit units, all courses are assigned 2 credit units.
### COURSE OUTLINE

#### PGD

**First Semester**  
(Core Courses)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC 701</td>
<td>Principles of Accounting</td>
<td>2</td>
</tr>
<tr>
<td>MAN 701</td>
<td>Principles of Management</td>
<td>2</td>
</tr>
<tr>
<td>BAF 701</td>
<td>Principles of Finance</td>
<td>2</td>
</tr>
<tr>
<td>BAF 711</td>
<td>Quantitative Techniques</td>
<td>2</td>
</tr>
<tr>
<td>ACC 713</td>
<td>Research Methodology</td>
<td>2</td>
</tr>
<tr>
<td>ACC 715</td>
<td>Auditing Principles and Practice</td>
<td>2</td>
</tr>
<tr>
<td>ECO 717</td>
<td>Principles of Micro Economics</td>
<td>2</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>14</strong></td>
</tr>
</tbody>
</table>

**Second Semester**  
(Core Courses)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC 714</td>
<td>Auditing Principles and Practice</td>
<td>2</td>
</tr>
<tr>
<td>ACC 722</td>
<td>Principles of Taxation</td>
<td>2</td>
</tr>
<tr>
<td>BAF 722</td>
<td>Principles of Macro Economics</td>
<td>2</td>
</tr>
<tr>
<td>ACC 724</td>
<td>Intro. to Cost &amp; Mgt Accounting</td>
<td>2</td>
</tr>
<tr>
<td>ACC 738</td>
<td>Research Project</td>
<td>4</td>
</tr>
<tr>
<td><strong>Electives Courses</strong></td>
<td>(2 Courses to be chosen from Electives)</td>
<td></td>
</tr>
<tr>
<td>ACC 726</td>
<td>Public Sector Accounting</td>
<td>2</td>
</tr>
<tr>
<td>ACC 728</td>
<td>Computer Application in Business</td>
<td>2</td>
</tr>
<tr>
<td>ACC 736</td>
<td>Nigerian Economy</td>
<td>2</td>
</tr>
<tr>
<td>BAF 732</td>
<td>Small Business Finance</td>
<td>2</td>
</tr>
<tr>
<td>BAF 734</td>
<td>Public Finance</td>
<td>2</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>16</strong></td>
</tr>
</tbody>
</table>

#### MBA

**First Semester**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC 801</td>
<td>ICT Management</td>
<td>3</td>
</tr>
<tr>
<td>ACC 811</td>
<td>Research Methodology</td>
<td>3</td>
</tr>
<tr>
<td>BAF 811</td>
<td>Corporate Finance</td>
<td>3</td>
</tr>
<tr>
<td>MAN 813</td>
<td>Quantitative Methods for Management</td>
<td>3</td>
</tr>
<tr>
<td>MKT 817</td>
<td>Marketing Management &amp; Strategy</td>
<td>3</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Units</td>
</tr>
<tr>
<td>------------</td>
<td>--------------------------------------</td>
<td>-------</td>
</tr>
<tr>
<td>ACC 802</td>
<td>On – the - Job Project</td>
<td>3</td>
</tr>
<tr>
<td>BAF 822</td>
<td>Environment of Business</td>
<td>3</td>
</tr>
<tr>
<td>MAN 824</td>
<td>Organizational Behavior</td>
<td>3</td>
</tr>
<tr>
<td>MAN 826</td>
<td>Business Law</td>
<td>3</td>
</tr>
<tr>
<td>MAN 828</td>
<td>Operations Management</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>15</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC 837</td>
<td>Graduate Seminar</td>
<td>3</td>
</tr>
<tr>
<td>BAF 831</td>
<td>Managerial Economics</td>
<td>3</td>
</tr>
<tr>
<td>MAN 831</td>
<td>Introduction to General Management</td>
<td>3</td>
</tr>
<tr>
<td>MAN 833</td>
<td>Corporate Strategy</td>
<td>3</td>
</tr>
<tr>
<td>MAN 839</td>
<td>Human Resources Management</td>
<td>3</td>
</tr>
<tr>
<td>MAN 856</td>
<td>Entrepreneurship</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>18</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC 834</td>
<td>Advanced Accounting Theory</td>
<td>3</td>
</tr>
<tr>
<td>ACC 836</td>
<td>Advanced Cost and Management Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ACC 838</td>
<td>Taxation and Public Finance</td>
<td>3</td>
</tr>
<tr>
<td>ACC 840</td>
<td>Public Sector Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ACC 842</td>
<td>International Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ACC 844</td>
<td>Oil and Gas Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ACC 846</td>
<td>Forensic Accounting and fraud Management</td>
<td>3</td>
</tr>
<tr>
<td>ACC 848</td>
<td>Accounting for Banks and Non-Bank Financial Institutions</td>
<td>3</td>
</tr>
<tr>
<td>ACC 850</td>
<td>Environmental Cost Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ACC 852</td>
<td>Advanced Auditing and Investigations</td>
<td>3</td>
</tr>
<tr>
<td>ACC 852</td>
<td>Research Project</td>
<td>6</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>24</strong></td>
</tr>
</tbody>
</table>

**M.Sc.**  
**First Semester**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC 853</td>
<td>Financial Accounting Theory</td>
<td>2</td>
</tr>
<tr>
<td>BAF 855</td>
<td>Corporate Finance</td>
<td>3</td>
</tr>
<tr>
<td>ACC 857</td>
<td>Research Methodology</td>
<td>2</td>
</tr>
<tr>
<td>ACC 859</td>
<td>Management Accounting Theory</td>
<td>3</td>
</tr>
<tr>
<td>ACC 861</td>
<td>International Accounting</td>
<td>2</td>
</tr>
<tr>
<td>ACC 863</td>
<td>Management Information System</td>
<td>2</td>
</tr>
<tr>
<td>ACC 865</td>
<td>Auditing Theory</td>
<td>2</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>16</strong></td>
</tr>
</tbody>
</table>

**Second Semester**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC 866</td>
<td>Public Sector Accounting</td>
<td>2</td>
</tr>
<tr>
<td>ACC 868</td>
<td>Taxation Theory Practice</td>
<td>2</td>
</tr>
<tr>
<td>ACC 870</td>
<td>Economic Theory</td>
<td>2</td>
</tr>
<tr>
<td>ACC 872</td>
<td>M.Sc Research Seminar</td>
<td>2</td>
</tr>
</tbody>
</table>

**Electives Courses (Any three)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BAF 874</td>
<td>Business Policy &amp; Strategy Management</td>
<td>2</td>
</tr>
<tr>
<td>MAN 876</td>
<td>Management Theory and Practice</td>
<td>2</td>
</tr>
<tr>
<td>BAF 878</td>
<td>Portfolio Theory and Practice</td>
<td>2</td>
</tr>
<tr>
<td>ACC 880</td>
<td>Oil and Gas Accounting</td>
<td>2</td>
</tr>
<tr>
<td>ACC 882</td>
<td>Forensic Accounting</td>
<td>2</td>
</tr>
<tr>
<td>BAF 884</td>
<td>Management of Financial Institution</td>
<td>2</td>
</tr>
<tr>
<td>BAF 886</td>
<td>International Business Finance</td>
<td>2</td>
</tr>
<tr>
<td>BAF 888</td>
<td>Public Finance</td>
<td>2</td>
</tr>
<tr>
<td>ACC 890</td>
<td>Accounting Standards</td>
<td>2</td>
</tr>
<tr>
<td>ACC 892</td>
<td>Thesis</td>
<td>6</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>20</strong></td>
</tr>
</tbody>
</table>

**PhD**

**First Semester (Core Courses)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC 911</td>
<td>History of Accounting Thought</td>
<td>3</td>
</tr>
<tr>
<td>ACC 913</td>
<td>Advanced Financial Accounting Theory</td>
<td>3</td>
</tr>
<tr>
<td>MAN 915</td>
<td>Advanced Management Theory</td>
<td>3</td>
</tr>
<tr>
<td>ACC 917</td>
<td>Advanced Research Methodology</td>
<td>3</td>
</tr>
<tr>
<td>ACC 919</td>
<td>Advanced Auditing Theory</td>
<td>3</td>
</tr>
<tr>
<td>ACC 997</td>
<td>Teaching Seminar</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>18</strong></td>
</tr>
</tbody>
</table>
### Second Semester (Core Courses)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC 920</td>
<td>Contemporary Issues in Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ACC 922</td>
<td>PhD Research Seminar</td>
<td>3</td>
</tr>
<tr>
<td>ACC 936</td>
<td>Thesis /Dissertation</td>
<td>12</td>
</tr>
</tbody>
</table>

### Electives Courses (Any two from area of concentration)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAN 924</td>
<td>Strategic Management</td>
<td>3</td>
</tr>
<tr>
<td>BAF 926</td>
<td>Advanced Theory of Corporate Finance</td>
<td>3</td>
</tr>
<tr>
<td>ACC 928</td>
<td>Public Sector Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ACC 930</td>
<td>Environmental Accounting</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total** 24
DESCRIPTION OF COURSES

ACC 701  Principles of Accounting            2 Units
Accounting and Auditing, the basic principles and concepts of accounting in the private business enterprises: book-keeping process. Elementary theory of accounts: basic practices of financial, cost and management, basic theory of auditing, internal and external.

ACC 714  Auditing Principles and Practice    2 Units
The nature and purpose of an Audit. The role of internal and external audits, reporting responsibilities, appointment dismissal and resignation of auditors. The concept of “true and fair view, independence of auditors”. Relationship of auditors to directors, shareholders and other financial statements users. Auditing planning – initial review of accounting system, evaluation of internal control systems and procedures, - couching of accounts, verification of assets, sampling technique, flow charting, stock taking procedures, letter representation. The audit Report – statutory requirements for audit report (Companies Act, 1990). Types of audit reports. Professional requirements, duties and power under statute and case law independence and ethical consideration.

ACC 722  Principles of Taxation              2 Units

ACC 724  Introductions to Cost and Management Accounting  2 Units
ACC 726   Public Sector Accounting     2 Units
Introduction to public sector accounting – distinction between public private sectors, basic accounting for not-for-profit (NFP), classification of NFP, basic characteristics of governmental accounting. Structures of governmental accounting in Nigeria. The treasury audit department, consolidated revenue fund, capital and development fund, fund accounting system and standardized uniforms for transactions; decision making and planning and control of public fund – application of costing methods, budgeting procedures, the use of audit department accounting for local government, educational and health institutions; planning, programming and budgeting System (PPBS). Recent developments and issues, the public sector – implication of Nigeria's membership in ECOWAS, effect of restructuring public sector etc.

ACC 728   Computer Applications in Business     2 Units
Introduction to basic programming, Data types, Constant and Variables, Statement types, Assignment statements, Input – Output statements, Control statements.

ACC 736   Nigerian Economy     2 Units
The national development plans and their implications for growth and economic development; The ideological conflicts in Economic Planning, Capitalism, Socialism, Mixed Economics; International Trade and Bilateralism; Economics Cooperation in West Africa; Major Economic Infrastructures; The Nigerian Capital and Money Markets; Economics of Housing and Urban Development; the Indigenization Decree; the problem of Growth and Investment Opportunities in Nigeria; study of selected Industries and Public Corporations; the policies of Oil and OPEC; the Agricultural Development Programmes; Nigerian Cooperatives: Functions and Accomplishments; Land Tenure and its impact on Agricultural Development; human resource Development, Shortages and implications; the Supply/Demand situation in Nigeria.

ACC 738   Research Methodology     4 Units
The course is designed to improve the ability of students to carry out empirical research and to evaluate published research. Topics covered include the nature of scientific research, theory building, and concept definition, formulating hypotheses, validity and reliability, measurement and scaling methods, concepts, and problems in data collection and sampling, criteria for causal inferences, studies and control groups, considerable time will be devoted to report writing including editing, foot noting, etc.

ACC 801   ICT Management     3 Units
Uses of computers in problem solving, its application to the solution of problems at
the introductory level in capital budgeting and linear problem.

**ACC 802 Advanced Cost & Management Accounting 3 Units**
Framework of modern management accounting. Cost and management accounting fundamentals; terms, principles, objectives, techniques and theories, cost analysis and cost concepts; overhead product costing and cost concept absorption and marginal costing, attributable cost, relevant cost, buy to make decisions, management audit, critical evaluation of variable analyses, profit and cash planning, performance evaluation; motivation and human aspect accounting. Costing and costing system - traditional vs non-traditional. Allocating costs and revenues support service costs, fixed costs, joint products costs, bundled product revenues and customer profitability; spoilage and rework. Budgeting and investment decision making. Cost drivers and cost estimation; standard costs and variance; CVP analysis and accounting for decision-making; target costing, transfer pricing, performance measurement and strategic management accounting process; Through-put accounting and the theory of constraints; quantitative applications in cost and management accounting.

**ACC 803 On – The – Job Project 2 Units**
The on-the-job project is a twelve-week programme spent observing a manager in challenging situation and reporting on what students observed and learned.

**ACC 822 Research Methodology 3 Units**
This course is designed to improve the ability of students to carry out empirical research and to evaluate published research. Topics covered include the nature of scientific research, theory building, and concept definition, formulation of hypothesis, validity and reliability, measurement and scaling methods, concept and problems in data collection and sampling, criteria for casual inferences, studies and control groups. Considerable time will be devoted to report writing etc.

**ACC 832 Advanced Accounting Theory 3 Units**
Analyze the Accounting discipline and its purpose; needs of users of accounting information; accounting theory and concepts of income measurement; disclosure requirement for profit and loss statement and balance sheet; amalgamations and reconstruction, consolidated accounts; branch and departmental accounts; current cost accounting; inflation account; fixed asset valuation; social responsible accounting.

**ACC 837 Graduate Seminar 3 Units**
Students will be required to present two seminar papers in areas of interest to them.

**ACC 838 Taxation and Public Finance 3 Units**
Tax theory, Income tax for individuals, partnership and corporation tax, planning

**ACC 840 Public Sector Accounting** 3 Units

Introduction to public sector accounting distribution between public and private sectors, basic accounting for not-for-profit (NFP), classification of FP, Basic characters of governmental accounting in Nigeria. The system audit department, consolidated revenue fund, capital and development fund, fund accounting system and standardized uniforms for transactions. Decision making and planning and control of public fund, application of costing methods, budgeting procedures, the use of audit department accounting for local government, education and health institutions.

**ACC 842 International Accounting** 3 Units

The course is designed for students who are interested in accounting and financial control of international operations. It involves preparation, transition and analysis of financial statements for companies that have branches of foreign multinational category (or companies). Accounting in Multinational Enterprises, Global Monetary System, International Taxation and Corporate Income Taxes; International Transfer Pricing, International Financial Reporting Standard (IFRS)

**ACC 844 Oil and Gas Accounting** 3 Units

This course aims to introduce students to the up and down stream sectors of oil activities in Nigeria. Royalties, Petroleum task and financial control activities in the oil and gas industry. Historical activities in Nigeria, classification of petroleum industry: Upstream and downstream activities and their characteristics. Enabling acts and accounting standards in oil and gas sectors. Accounting Principles, practices, and methods, standard oil accounting procedures.

**ACC 846 Forensic Accounting and Fraud Management** 3 Units

History, definition of forensic accounting; current trends in fraudulent practices and need for forensic accounting; forensic accounting and differences; audit investigations: similarities and differences; internal controls and internal checks; accounting and administrative controls.

**ACC 848 Accounting for Banks and Non–Bank Financial Institution** 3 Units

Introduction to SAS 10 and BOFIA; accounting by banks and non-bank financial institutions; History, meaning and definitions; Accounting policies and methods
adopted by banks and non-bank financial institutions; activities of finance houses or companies, Bureau De Change, mortgage institutions, discount houses, stock brokerage firms and capital market operators, classification and disclosures in financial statements of banks and non-bank financial Institutions.

**ACC 852 Advanced Auditing and Investigation 3 Units**
Evolution of auditing, procedures with particular reference to internal control systems, internal audit functions; sampling and statistical techniques; auditing standards and guidelines including exposure drafts, post audit review; audit of accounts of solicitors, charitable and other non-trading organization.

**ACC 853 Financial Accounting Theory 2 Units**
A review of basic accounting procedures, including the rationale of financial accounting and the economic foundations of accounting generally. Elements of the history of accounting. Working papers and the interpretations of financial statements, including the analysis of working capital and statements of the sources and application of funds and cash flows. Generally accepted accounting principles and net income concepts, including the valuation of stock and work-in-progress. The theory and techniques relating to balance sheet categories including cash, debtors, stock, investments, tangible and intangible fixed assets, liabilities and reserves, elements of the impact of price-level changes on financial statements.

**ACC 857 Research Methodology 2 Units**

**ACC 859 Management Accounting Theory 3 Units**
Nature, scope and purpose of costing. Theory of costing, elements of costing, material, labour and overhead (in outline only); cost allocation, apportionment; methods of costing. Marginal costing, costing ascertainment cost/profit/volume analysis, break even analysis. Standard costing, profit contribution, mix and yield variances; interpretation of variances and their relationships.

**ACC 861 International Accounting 2 Units**
Accounting in Multinational Enterprises, International Financial Reporting standard (IFRS), International Auditing Standard(IAS), Global Trade and investment Environment, Regional Economic Integration in Developing Multinational Enterprises (MNEs), The preparation, translation and analysis of financial statements for companies with foreign branches, financial management in international business
ACC 863 Management Information System (MIS) 2 Units
This course is designed to expose students to the practical application of computers to management information processing. The course provides the steps followed in the utilization of electronic data processing (EDP) system in producing financial and management information, in feasibility studies, system analysis, system design and system implementation for computerized accounting system. Among other things, the course will examine the following issues: Elements of computing - mechanical and electronic, types of computers and their applications, computer programming using either COBOL or FORTRAN, data processing manual and mechanized systems, system analysis and design, evaluation and administration of MIS with emphases on computer based systems, meaning of information technology and its application in business finance and management.

ACC 865 Auditing Theory 3 Units
Advanced principles in external and internal auditing, practices and techniques; principles and practices of internal control: the auditor’s report audit programme, auditing standards, professional ethics.

ACC 866 Public Sector Accounting 2 Units
Basic accounting for non-profit organization; basic characteristics of government accounting; structure of governmental accounting in Nigeria; the treasury; audit department; consolidated revenue fund, capital and development fund; planning, programming and budgeting system (PPBS)

ACC 868 Taxation Theory and Practice 2 Units

ACC 872 Research Seminar 2 Units
The students are required to present two seminar papers in their area of specialization.

ACC 870 Oil and Gas Accounting 3 Units
This course aims at introducing the students to the up and down stream sectors of oil activities in Nigeria. Royalties, petroleum task and financial control activities in the oil and gas industry. Historical development of oil fields and petroleum activities in Nigeria. Classification of petroleum industry: upstream and downstream activities and their characteristics. Enabling acts and accounting standards in oil and gas sectors. Accounting principles, practices and methods, oil
and gas activities. Accounting for costs including cost of acquisition of mineral or property rights, exploration and drilling/ non-drilling costs of proved and improved properties, development and drilling costs of proved and unproved properties, production cost and eventual abandonment cost. Differences between fuel cost and successful efforts accounting. Accounting for lease, depreciation, depletion and amortization. Upstream financial reporting.

**ACC 882 Forensic Accounting** 2 Units


**ACC 890 Accounting Standards** 2 Units

The aim of this course is to inculcate in the students the understanding of the major accounting standards bodies of the world including their history, methods and the standards. The Nigerian Accounting Standards Board (NASB) and the Statements of Accounting Standards (SASs); the Financial Accounting Standards Board (FASB-USA) and the Financial Accounting Standards (FASs), the Accounting Standard Board (ASB-UK) and the Statements of Standard Accounting Practice (SSAPs); and the International Accounting Standards Board (ISAB) and International Financial Reporting Standards.

**ACC 911 History of Accounting Thought** 3 Units


**ACC 913 Advanced Financial Accounting Theory** 3 Units

Elements of mechanized accounting, including the application of computers and related systems to business accounts. Governmental, municipal and public utility accounting, with special reference to Nigerian Organizations. Seminars on accounting systems, including business, governmental municipal and public utility accounting systems.

**ACC 915    Advanced Management Accounting Theory          3 Units**
This course aims at introducing students to the advanced theories and practice of management. Conventional and modern conceptions of management theory; levels and feature of theory in the Nigerian Application and relevance of theory in the Nigerian context. Organisational design and outline of managing group processes, problems of integration and control; managing change and development. Modern issues in management theory.

**ACC 917    Advanced Research Methodology             3 Units**
Introduction to research methodology; research in management sciences; research in social sciences; research in physical and natural sciences; problems of research in developing countries; common errors in research. Research in Practice: Problem identification; literature review; materials and procedures (methodology); results; discussions; summary, conclusions and recommendations.

**ACC 919    Advanced Auditing Theory              3 Units**
Evolution of auditing, procedures with particular reference to internal control systems, internal audit functions; sampling and statistical techniques; auditing standards and guidelines including exposure drafts; post audit review; audit of accounts of solicitors, charitable and other non-trading organizations.

**ACC 920    Contemporary Issues in Accounting          3 Units**
Discussion and articulation of recent developments in the accounting literature.

**ACC 920    Contemporary Issues in International Accounting          3 Units**
The course is designed for students interested in accounting and financial control of international operations. It involves preparation, translation and analysis of financial statements for companies that have branches of foreign multinational companies.

**ACC 922    PhD Seminar          3 Units**
Each seminar relates to an examination of current issues in the area of specialization in consultation with supervisor. Results of such examinations shall be presented at departmental or faculty seminars.
ACC 928  Public Sector Accounting  3 Units
Basic accounting for non-profit organization; basic characteristics of government accounting; structure of governmental accounting in Nigeria; the treasury; audit department; consolidated revenue fund, capital and development fund; planning, programming and budgeting system (PPBS).

ACC 930  Environmental Accounting  3 Units
This course has the aim of inculcating in the students the idea of cost and control processes of the effects productive activities on the environment. Definition and concept of environmental accounting, overview of Nigerian environment; identification of environmental costs; environmental financial accounting, structural elements of environmental accounting focus.; functions and roles of environmental accounting; disclosure requirements; national environmental laws and regulations; international standards on environmental cost accounting.

ACC 936  Dissertation  12 Units
An empirical based study and report on an acceptable accounting problem area.

ACC 997  Teaching Seminar  3 Units
Supervised university teaching including techniques, course and curriculum design, and evaluation. Students will prepare and present lectures with direct observations and videotaping for discussion.

LIST OF ACADEMIC STAFF IN ACCOUNTING

<table>
<thead>
<tr>
<th>S/N</th>
<th>NAME</th>
<th>QUALIFICATION</th>
<th>DESIGNATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Prof. Eugene O. Nwadialor</td>
<td>PhD, MSc, MBA, FCA, ACTIN, Financial Economics &amp; International Accounting</td>
<td>Professor</td>
</tr>
<tr>
<td>2.</td>
<td>Prof. (Mrs) Sabina A. Eyisi</td>
<td>PhD, MSc, MBA, B.Sc, Accounting</td>
<td>Professor</td>
</tr>
<tr>
<td>3.</td>
<td>Dr. Titus F.I Nwanne</td>
<td>PhD, MBA, PGD, B.Sc, HCIB, Banking and Finance</td>
<td>Senior Lecturer</td>
</tr>
<tr>
<td>4.</td>
<td>Dr. Sergius N. Udeh</td>
<td>PhD, MBA, B.Sc, CNA, ACMA, HCIB Accounting</td>
<td>Senior Lecturer</td>
</tr>
<tr>
<td>5.</td>
<td>Dr. Michael C. Nwafor</td>
<td>PhD, MBA, B.Sc, FCAI, HCIB Insurance</td>
<td>Senior Lecturer</td>
</tr>
<tr>
<td>6.</td>
<td>Dr. Simon N. Nwankwo</td>
<td>PhD, MBA, B.Sc., Banking and Finance</td>
<td>Lecturer 1</td>
</tr>
<tr>
<td>7.</td>
<td>Dr. Oliver Inyiama</td>
<td>PhD, MBA, HND, FCA, Accounting</td>
<td>Lecturer 1</td>
</tr>
<tr>
<td>8.</td>
<td>Dr. Ifeanyi Onwuka</td>
<td>PhD, M.Sc., ACIB, ACE, B.Sc., Banking and Finance</td>
<td>Lecturer 1</td>
</tr>
</tbody>
</table>
POSTGRADUATE PROGRAMMES IN BANKING AND FINANCE

PGD, M.Sc. and Ph.D Programmes

1. Introduction
The Banking Finance programme in the school of postgraduate studies of Godfrey Okoye University is one of the programmes desirous of training highly skilled and competent managers and leaders who will be committed in contributing their quota towards the development of the country. Pursuant to this objective the programme offers post graduate studies aimed at sharpening the managerial skills of candidates in the following areas:

Postgraduate Diploma (PGD) in Banking and Finance, Master of Business Administration (MBA) in Banking and Finance, Master of Science (M.Sc.) in Banking and Finance and Doctor of philosophy (PhD) in Banking and Finance.

2. Philosophy
The general philosophy of programmes in Banking and Finance is to provide graduate education and training in the various areas of Banking and Finance, which develops and deepens the spirit of enquiry and responsibility in the graduate students, to take on research, teaching and administrative responsibilities, in public and private sectors of the nation and global economics.

3. Objectives
The general objectives of post graduate programmes in Banking and Finance are to:

a. Provide training in research at the university and other institution and for those who may have to operate in research and development environments in the public and private sectors.
b. Provide training aimed at improving and upgrading the existing and potential human resources needed for national development.

c. 

4. Admission Requirements
i. Postgraduate Diploma Programme: Provided the matriculation requirements are satisfied;

a. Five credits passes including English Language and Mathematics at the Ordinary level (O level).
b. Relevant Bachelor's Degrees not lower than Third Class Division from a recognized university.
c. Bachelor's Degrees with at least Second Class Lower Division in areas not related to Banking and Finance may be considered
d. Higher National Diploma at Upper Credit level.
e. Relevant professional qualifications.
ii. **Master's Degree**
Provided the university's matriculation requirements are satisfied;

a. Degree in relevant area from a recognized university with a minimum of Second Class Lower Division may be admitted provided the university's matriculation requirements are satisfied;

b. A postgraduate diploma at Upper Credit Level in relevant area from a recognized university.

iii. **Doctor of Philosophy (PhD) Degree**
Provided that university's Matriculation requirements are satisfied; Relevant Master's Degree with at least an average of B grade (60%) which includes: course work and research thesis from a recognized university.

5. **Duration**
The duration for the various programmes shall be as follows:

i. **Postgraduate Diploma Programme (PGD)**
   a. Full-time Diploma: Minimum of two (2) Semesters and a maximum of four (4) semesters.
   b. Part-time Diploma: minimum of four (4) semesters and a maximum of six (6) semesters.

ii. **Master's Degree Programme**
   a. Full-time: A minimum of four (4) semesters and a maximum of six (6) semesters.
   b. A minimum of six (6) semesters and a maximum of eight (8) semesters.

iii. **PhD Programme**
   a. Full-time: A minimum of six (6) semesters and a maximum of ten (10) semesters.
   b. Part-time: A minimum of ten (10) semesters and a maximum of twelve (12) semesters.
   c. For extension beyond the specified maximum period, a special permission of the Postgraduate Board shall be required.

6. **Master of Business Administration (MBA) in Banking and Finance**
   a. **Philosophy**
The philosophy of Master of Business Administration (MBA) Programme in Banking & Finance is designed to equip managers and directors of all organizations with necessary skills for enhanced performance.
b. **Objectives**
   The objectives of Master of Business Administration (MBA) in Banking and Finance are:
   i. To help develop students' skill of critical thinking and application to complex issues relating to banking and finance.
   ii. To equip students with necessary knowledge that will enable them assume dynamic responsibilities in the competitive business environment.

c. **Admission Requirements**
   The basic admission requirements into the MBA programme in Banking & Finance are as follows:
   I. Candidates must have five credits passes including English, Mathematics at the O, level.
   ii. Candidates with Bachelors’ Degree from an approved university must have a minimum of second class lower division
   iii. All candidates must have a minimum of one year managerial/administrative experience.
   iv. Candidates with Postgraduate Diploma from a recognized university and who have passed with a minimum of Upper Credit may be considered for admission provided the university's matriculation requirements are satisfied.
   v. Holders of HND and or/ professional qualifications are eligible for admission but must go through a mandatory nine months postgraduate diploma in the university provided they meet the basic University entry qualification

7. **Master of Science (M.Sc.) in Banking and Finance**
   a. **Philosophy**
      The Philosophy of the programme is to broaden and deepen the intellectual exposure of students in core banking and finance course so as to develop their capability to undertake indepth postgraduate research in any of the core areas of the discipline.
   
   b. **Objectives**
      The Master of Science (M.Sc.) programme is designed to train and develop prospective academics, researchers and specialists in financial institutions and markets by providing thorough grounding in the intellectual traditions of the discipline.
   
   c. **Entry Qualifications**
      a. A good honours degree (at least second class) in banking and/or finance from a recognized university.
b. A postgraduate Diploma in Banking and/or Finance at upper credit in relevant area from a recognized university.

8. **Doctor of Philosophy (Ph.D) in Banking and Finance**
   a. **Philosophy**
      To broaden and deepen the intellectual capacity of students and strengthen their research capability and by the same token prepare them for academic positions in universities and other tertiary institutions as well as management positions in both public and private sectors.

b. **Objective**
   To develop prospective academics, researchers and financial analysts by broadening the intellectual and research capabilities of the students.

c. **Admission Requirements**
   A good M.Sc. degree in Banking and/or Finance with at least an average of B grade (60%) which includes course work and thesis/dissertation.

9. **Requirement for Students' Supervision**
   The requirement for supervision of postgraduate students shall be as follows:

   i. A supervisory committee shall consist of a minimum of 1 and a maximum of 2 supervisors for each postgraduate student on the master programmes and a minimum of 2 and maximum of 3 for doctoral degree programmes. One of the supervisors shall be designated the main supervisor and chairman, supervisory committee; and others, co-supervisors.

   ii. All lecturers qualified to teach post graduate courses and who are not registered postgraduate students shall be eligible to supervise Master's Degree candidates. For the PhD, supervisors must be of a rank not lower than senior lecturer and must not be registered postgraduate students.

10. **Workload**
    Definition: A unit of workload consists of one hour lecture per week for 15 weeks (one semester)
    a. No course shall carry less than 2 credit units.

    b. A Postgraduate Diploma shall have a minimum of 28 Credit Units of work and broken into 24 credit units of course work and 4 credit units of project report.
c. A Master's degree programme shall have a minimum workload broken into 36 credit units of workload broken into 30 credit units of course work and 6 credit units of dissertation/thesis.

(i) A PhD degree programme shall have a minimum workload of 30 credit units of workload broken into 18 credit units of course work and 12 credit units of dissertation/thesis.

(ii) A PhD student from other recognized universities shall be allowed a credit transfer of not more than 18 credit units passed with a minimum of B grade at the Master's Degree Level.

11. Examinations
   Course work
   a. For all postgraduate course work, the minimum pass score shall be 50%; continuous assessment shall constitute 30% of the examination for each course.

b. To be in good standing, a student must in each semester have a cumulative Grade Point Average(CGPA) of not less than 3.00.

c. A student whose cumulative Grade Point Average is below 3.00 at the end of a particular year of study, shall be placed on probation for one academic session.

NOTE: Scoring and grading of courses shall be as as follows:

<table>
<thead>
<tr>
<th>Marks</th>
<th>Letter Grades</th>
<th>Grades Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>70 and above</td>
<td>A</td>
<td>5</td>
</tr>
<tr>
<td>60 – 69</td>
<td>B</td>
<td>4</td>
</tr>
<tr>
<td>50 – 59</td>
<td>C</td>
<td>3</td>
</tr>
<tr>
<td>Below 50</td>
<td>F</td>
<td>0</td>
</tr>
</tbody>
</table>

Evaluation of Project Report
1. Postgraduate Diploma Project should be subjected to moderation by external Examiner.
2. Master's Thesis/Dissertation shall be through the following:

Panel of Examiners
a. Head of Department (Chief Examiner)
b. External Examiner (Chairman, Panel of Examiners)
c. Supervisors

d. One other member who is not below the rank of a senior lecturer with Ph.D from a related Department within the University to be appointed by the Department subject to the approval of postgraduate School.

e. A representative of the postgraduate school board

12. Academic Regulations

i. Academic Session

An academic session consists of two semesters. Each semester normally comprises 15 weeks of teaching and two weeks of examinations.

ii. Course Unit System

a. All postgraduate programmes shall be run on a course unit system. Credit weights should be attached to each course.

iii. Definition of credit or unit

a. Credits are weights attached to a course. One credit is equivalent to one hour per week per semester of 15 weeks of lectures or tutorials or three hours per week of term paper work/laboratory work/practical's per semester of 15 weeks.

iv. Registration Procedure

Students shall normally complete registration for courses of the programme not later than two weeks after the start of the semester. A student cannot withdraw from a taught course after a third of it has been given without permission from the Head of Department. A student who withdraws after this time or who fails to sit for the final examination without reasons acceptable to the senate shall be deemed to have failed that course.

v. Attendance

In order to be eligible for examination in a particular taught course, a student shall have attended a minimum of 75% of the total period of formal instructions delivered for the course.

13. Academic Programmes

Post Graduate Diploma (PGD) In Banking and Finance

Course Structure

The programme is made up of 13 courses and a research project offered in two semesters. Six courses are offered during the first semester while six courses and a long essay are offered during the second semester. All courses are assigned 2 credit units while the research project carries 4 credits.
# Course Outline

## Post Graduate Diploma (PGD) In Banking and Finance

### First Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BAF 701</td>
<td>Principles of Finance</td>
<td>2</td>
</tr>
<tr>
<td>BAF 711</td>
<td>Quantitative Techniques for Financial Decisions</td>
<td>2</td>
</tr>
<tr>
<td>BAF 713</td>
<td>Research Methodology</td>
<td>2</td>
</tr>
<tr>
<td>ACC 701</td>
<td>Principles of Accounting</td>
<td>2</td>
</tr>
<tr>
<td>ACC 713</td>
<td>Auditing Principles and Practice</td>
<td>2</td>
</tr>
<tr>
<td>MAN 701</td>
<td>Principles of Management</td>
<td>2</td>
</tr>
<tr>
<td>MKT 701</td>
<td>Fundamentals of Marketing</td>
<td>2</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>14</strong></td>
</tr>
</tbody>
</table>

### Second Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BAF 724</td>
<td>Financial Institutions and Markets</td>
<td>2</td>
</tr>
<tr>
<td>BAF 726</td>
<td>Investment Analysis and Portfolio Management</td>
<td>2</td>
</tr>
<tr>
<td>BAF 730</td>
<td>Money and Banking</td>
<td>2</td>
</tr>
<tr>
<td>BAF 728</td>
<td>Micro and Small Business Financing</td>
<td>2</td>
</tr>
<tr>
<td>ECO 717</td>
<td>Principles of Micro Economics</td>
<td>2</td>
</tr>
<tr>
<td>ECO 722</td>
<td>Principles of Macro Economics</td>
<td>2</td>
</tr>
<tr>
<td><strong>Electives</strong></td>
<td><strong>(One to be chosen)</strong></td>
<td></td>
</tr>
<tr>
<td>BAF 732</td>
<td>Regulation of Financial Institutions</td>
<td>2</td>
</tr>
<tr>
<td>BAF 736</td>
<td>Business Finance</td>
<td>2</td>
</tr>
<tr>
<td>BAF 738</td>
<td>Research Project</td>
<td>4</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>16</strong></td>
</tr>
</tbody>
</table>

## MBA

### First Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC 801</td>
<td>ICT Management</td>
<td>3</td>
</tr>
<tr>
<td>MAN 813</td>
<td>Quantitative Methods for Management</td>
<td>3</td>
</tr>
<tr>
<td>BAF 811</td>
<td>Corporate Finance</td>
<td>3</td>
</tr>
<tr>
<td>MKT 817</td>
<td>Marketing Management &amp; Strategy</td>
<td>3</td>
</tr>
<tr>
<td>BAF 81</td>
<td>Research Methodology</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>15</strong></td>
</tr>
</tbody>
</table>
### Second Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC 822</td>
<td>The On – the Job Project</td>
<td>3</td>
</tr>
<tr>
<td>BAF 822</td>
<td>Environment of Business</td>
<td>3</td>
</tr>
<tr>
<td>MAN 824</td>
<td>Organizational Behaviour</td>
<td>3</td>
</tr>
<tr>
<td>MAN 826</td>
<td>Business Law</td>
<td>3</td>
</tr>
<tr>
<td>MAN 828</td>
<td>Operations Management</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>15</strong></td>
</tr>
</tbody>
</table>

### Third Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BAF 831</td>
<td>Managerial Economics</td>
<td>3</td>
</tr>
<tr>
<td>BAF 837</td>
<td>Graduate Seminar</td>
<td>3</td>
</tr>
<tr>
<td>MAN 831</td>
<td>Introduction to General Management</td>
<td>3</td>
</tr>
<tr>
<td>MAN 833</td>
<td>Corporate Strategy</td>
<td>3</td>
</tr>
<tr>
<td>MAN 839</td>
<td>Human Resource Management</td>
<td>3</td>
</tr>
<tr>
<td>MAN 835</td>
<td>Entrepreneurship</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>18</strong></td>
</tr>
</tbody>
</table>

### Fourth Semester

**Core Courses (Electives - Any six)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BAF 836</td>
<td>Advanced Corporate Finance</td>
<td>3</td>
</tr>
<tr>
<td>BAF 838</td>
<td>Investment Analyses</td>
<td>3</td>
</tr>
<tr>
<td>BAF 840</td>
<td>Management of Financial Institution</td>
<td>3</td>
</tr>
<tr>
<td>BAF 842</td>
<td>Portfolio Theory and Capital Market Analysis</td>
<td>3</td>
</tr>
<tr>
<td>BAF 846</td>
<td>International Business Finance</td>
<td>3</td>
</tr>
<tr>
<td>BAF 848</td>
<td>Case problems in Financial Management, Banking and Financial Institutions</td>
<td>3</td>
</tr>
<tr>
<td>BAF 854</td>
<td>Micro and Macro Business Finance</td>
<td>3</td>
</tr>
<tr>
<td>BAF 856</td>
<td>International Banking an Finance</td>
<td>3</td>
</tr>
<tr>
<td>BAF 852</td>
<td>Research Project</td>
<td>6</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>24</strong></td>
</tr>
</tbody>
</table>

### M.Sc.

**First Semester**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BAF 855</td>
<td>Corporate Finance</td>
<td>3</td>
</tr>
<tr>
<td>BAF 853</td>
<td>Theory of Financial Intermediation</td>
<td>2</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Units</td>
</tr>
<tr>
<td>-------------</td>
<td>---------------------------------------------</td>
<td>-------</td>
</tr>
<tr>
<td>BAF 859</td>
<td>Regulation of Financial Institutions</td>
<td>2</td>
</tr>
<tr>
<td>BAF 861</td>
<td>Management of Financial Institutions</td>
<td>2</td>
</tr>
<tr>
<td>BAF 863</td>
<td>Basic Econometrics</td>
<td>2</td>
</tr>
<tr>
<td>BAF 865</td>
<td>Microeconomic Theory</td>
<td>2</td>
</tr>
<tr>
<td>BAF 859</td>
<td>Research Methodology</td>
<td>2</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>15</strong></td>
</tr>
</tbody>
</table>

**Second Semester**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BAF 866</td>
<td>Quantitative Techniques for Financial Decision</td>
<td>2</td>
</tr>
<tr>
<td>BAF 868</td>
<td>Macroeconomic Theory</td>
<td>2</td>
</tr>
<tr>
<td>BAF 870</td>
<td>M.Sc Research Seminar</td>
<td>3</td>
</tr>
<tr>
<td>BAF 890</td>
<td>Thesis</td>
<td>6</td>
</tr>
</tbody>
</table>

**B1: Finance**

Electives (Any three Courses)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BAF 872</td>
<td>International Business Finance</td>
<td>2</td>
</tr>
<tr>
<td>BAF 874</td>
<td>Investment Analysis and Portfolio Management</td>
<td>2</td>
</tr>
<tr>
<td>BAF 876</td>
<td>Derivatives Securities and Markets</td>
<td>2</td>
</tr>
<tr>
<td>BAF 878</td>
<td>Micro and Small Business Finance</td>
<td>2</td>
</tr>
<tr>
<td>BAF 880</td>
<td>Public Sector Financial Management</td>
<td>2</td>
</tr>
</tbody>
</table>

**B2: Banking**

Electives (Any three Courses)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BAF 882</td>
<td>International Banking and Finance</td>
<td>2</td>
</tr>
<tr>
<td>BAF 884</td>
<td>Bank Lending and Credit Administration</td>
<td>2</td>
</tr>
<tr>
<td>BAF 886</td>
<td>Marketing of Financial Services</td>
<td>2</td>
</tr>
<tr>
<td>BAF 888</td>
<td>Financial Planning and Control</td>
<td>2</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>19</strong></td>
</tr>
</tbody>
</table>
The PhD programme requires a minimum of 36 credit units made up of 15 credit units of taught courses, 6 credits units of Seminar and 12 units for thesis. It is summarize thus:

- Five courses (3 credits each) \(15\) units
- One course and two seminars in the areas of specialization \(9\) units
- Thesis \(12\) units
- Total \(36\) units

### First Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BAF 911</td>
<td>Advanced Theory of Corporate Finance</td>
<td>3</td>
</tr>
<tr>
<td>BAF 913</td>
<td>Advanced Portfolio Theory and Management</td>
<td>3</td>
</tr>
<tr>
<td>BAF 915</td>
<td>Advanced Theory of Financial Intermediation</td>
<td>3</td>
</tr>
<tr>
<td>BAF 919</td>
<td>Advanced Quantitative Decision Techniques</td>
<td>3</td>
</tr>
<tr>
<td>BAF 917</td>
<td>Advanced Research Methodology</td>
<td>3</td>
</tr>
<tr>
<td>BAF 997</td>
<td>Teaching Seminar</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>18</strong></td>
</tr>
</tbody>
</table>

### Second Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BAF 986</td>
<td>Thesis</td>
<td>12</td>
</tr>
</tbody>
</table>

### Elective Courses

All candidates are required to take and pass the two PhD seminars and one course from one of the two areas of concentration: (B1) Finance and (B2) Banking

#### B1: Finance Option

**(One Course and Two Seminars)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BAF 920</td>
<td>Empirical Investigations in Finance</td>
<td>3</td>
</tr>
<tr>
<td>BAF 922</td>
<td>Contemporary Issues in Finance</td>
<td>3</td>
</tr>
<tr>
<td>BAF 924</td>
<td>PhD Seminar in Finance I</td>
<td>3</td>
</tr>
<tr>
<td>BAF 926</td>
<td>PhD Seminar in Finance II</td>
<td>3</td>
</tr>
</tbody>
</table>

#### B2: Banking Option

**(One Course and Two Seminars)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BAF 928</td>
<td>Empirical Investigations in Banking</td>
<td>3</td>
</tr>
<tr>
<td>BAF 930</td>
<td>Contemporary Issues in Banking</td>
<td>3</td>
</tr>
<tr>
<td>BAF 932</td>
<td>PhD Seminar in Banking I</td>
<td>3</td>
</tr>
<tr>
<td>BAF 936</td>
<td>PhD Seminar in Banking II</td>
<td>3</td>
</tr>
</tbody>
</table>
COURSE DESCRIPTION

BAF 701  Principles of Finance  2 Units
This is an introductory course that will help students deepen their understanding of some basic concepts in finance. Topics covered include: money creation, credit operations and monetary control, savings mobilization, interest rates and lending process, money and capital markets, the foreign exchange market and financial intermediation processes, sources of capital, short and long term capital, internal and external finance, corporate securities, debt and equity finance, the Nigerian banking system and the Central Bank of Nigeria traditional and development roles, bank capitalization and recent developments in the Nigerian and global financial systems.

BAF 711  Quantitative Techniques  2 Units
This course aims at giving the students quantitative skills necessary for banking and financial decision making. The focus of the course will be more of application rather than of the theory per se. It covers descriptive statistics, probability and expectations, discrete and continuous intervals, time series analysis, index number with applications in finance, multiple regression, including correlation analysis. It also includes inventory, forecasting, queuing models, analysis of variance, use of computer as a tool, with emphasis on application to finance.

BAF 713  Research Methodology  2 Units
The course is designed to train students in the skill of scientific information gathering, analysis and interpretation in dealing with problems in finance and related topics. Through reading, assignments and direct experience students are exposed to the art of problem identification and analysis, data gathering, analysis and report writing. Emphasis will be placed on the approach at every stage.

BAF 724  Financial Institutions and Markets  2 Units
The course covers: overview of the financial system, embracing banks, non-bank financial institutions, money and capital markets and the regulatory authorities- the Central Bank, the Securities and Exchange Commission, the Stock Exchange, survey of the structure and operation of the market for short, medium, and long term securities. Other topics include overview of the nature, types, sources and uses of term securities as well as the nature, objectives, structure, functions, and practices of institutions, such as the stock exchange, investment banking, insurance and pension institutions as well as international finance institutions. The other aspects include: economics and legal aspects of the capital market, analysis of interest rates, cost of capital, prices of securities, risk in securities operations and their implications for investment and
performance of the financial operators.

**BAF 726 Investment Analyses and Portfolio Management  2Units**
The study covers portfolio selection as a problem of constrained utility maximization under conditions of uncertainty; Discussion of the different markets, along empirical evidence for validity of the theory; activities involved in making selection among alternative financial assets from the viewpoints of individuals and institutional investors; implications of the efficient market theory for the profitability of alternative investment; valuation of financial statements and analysis. The empirical evidence for various mean variance models of assets for evaluating portfolio performance are emphasized.

**BAF 728 Micro and Small Business Financing  2Units**
The course covers the problem of provision of microcredit and the financial problems of small business in the economy. Topics covered include: sources, acquisition and use of capital by small businesses; financial analysis relating to income, repayment of capital and risk management, leasing and other finance alternatives, the role of small business in the economy, required government assistance, how microcredit can be effectively provided and the provision of finance by credit institutions as well as the non-financial components to make finance be productively employed.

**BAF 730 Money and Banking  2Units**
Brief history of money and banking; different types of monetary standards in the development of banking; theories of banking, capital adequacy, base money, theories of money, types of banks.

**BAF 732 Regulations of Financial Institutions  2Units**
An advanced treatment of fiscal and monetary policy issues; in respect of economic stabilization measures. The instruments and targets of fiscal and monetary policies and theory impacts on macroeconomic aggregates including unemployment, income levels, inflation etc. Regulatory institutions in domestic and international economic environment such as the CBN, NDIC/FDIC, IMF etc. as they affect national and international economic development.

**BAF 736 Business Finance  2 Units**
This course covers working capital financial management: Accounts, receivables management, inventory management, and cash management. It also covers capital budgeting decisions, and capital structure decisions.

**BAF 811 Corporate Finance  3 Units**
The principles and procedures underlying financial statements; financial transactions; alternative accounting statements; tools or analysis of ratios and other quantitative...
measures; accounting information useful for managerial action; application of information in decision situations. Project Appraisal analysis of investment projects, the impact of risk, tax and inflation, the term structure of interest rates, the cost of capital and target rates of return; capital markets – its efficiency, the role of intermediaries, sources of finance, the borrowing decision and company valuation and optimal portfolio allocation; Capital structure – optimal capital structure of firms, mergers and acquisitions and the market for corporate control, market efficiency, the principle of capital structure, gearing and the basics of hedging and international finance.

BAF 813 Research Methodology 3 Units
Introduction to research methodology; research in management sciences; research in social sciences; research in physical and natural sciences; problems of research in developing countries; common errors in research. Research in Practice: Problem identification; literature review; materials and procedures (methodology); results; discussions; summary, conclusions and recommendations. Report Writing.

BAF 821 Corporate Finance 3 Units
The nature of the firm and corporate objectives. Implementation of the firm's goal for choice among alternative investment projects (the capital budgeting problem), market evaluation of non-assets under uncertainty and implication for capital budgeting, analysis and illustration with problems of alternative investment criteria, alternative approaches to valuation of the firm and the cost of capital, discussion of corporate financial problems, e.g. leasing, mergers and acquisition and issuance of new securities.

BAF 822 Environment of Business 3 Units
The basic objective of the course is to examine the legal, social, political and economic framework which business organization must operate in the Nigerian environment. Because of the pervasive influence of globalization and reduction of distances between nations, there value systems, language etc. international business environments will be explored. Topic covered include: The concept, scope and nature of the business environment and environmental scanning, legislations related to business. Ethical theories of business decision, social and cultural issues in business; theoretical and practical issues of the Nigerian political economy which dictates the basis of fiscal and monetary policies, macroeconomics management and business practices.

BAF 823 Regulations of Financial Institutions 2 Units
An advanced treatment of fiscal and monetary policy issues; in respect of economic stabilization measures; the instruments and targets of fiscal and monetary policies and theory impacts on macroeconomic aggregates including unemployment, income levels, inflation etc. regulatory institutions in domestic and international economic environment such as the CBN, NDIC/FDIC, IMF etc. as they affect national and
international economic development.

**BAF 824 Management of Financial Institutions**  
2 Units  
The course is concerned with financial management of banks and other financial institutions. The management decision making problems in the course view, the financial firm as having goals of maximizing returns on assets subject to the constraints of the funds model, the maintenance of solvency, the capital adequacy problem and demands of the regulatory authorities. Also covered are the analysis of various issues and problems common to many financial intermediaries, such as corporate planning and control in financial institutions; competition for funds, assets and liability management, marketing of financial services, the measurement of performance, and the reconciliation of profit objectives with public relations and social obligations. Case studies are expected to be employed in illustrating typical real issues.

**BAF 825 Basic Econometrics**  
2 Units  
Topics covered include: the study of the specification of econometric models in economics and finance theory, stochastic disturbances, and the link between conceptual variables and observable economic data are combined. Other topics include; Estimation of single equation linear and non-linear models by ordinary least squares (OSL) and other methods, and estimation of time- series models and simultaneous equation models. Particular attention is given to specifications of problems and errors, and the application of the various tools to aid analysis in finance.

**BAF 829 M.Sc. Seminars in Finance**  
2 Units  
This seminar introduces students to the most recent research in the area of Finance and Investment, examining current issues and trends. Students have an opportunity to present and discuss their own research and actively engage in the analysis and discussion of the work of others. Each student is expected to make at least one presentation during the course, focusing on the formulation, design, execution, and results of his/her research.

**BAF 830 Theory of Financial Intermediation**  
2 Units  
The course analyses financial markets conceptually and theoretically, emphasizing the role, structure and activities of financial intermediaries. The dynamic pattern of financial flows is analyzed by flow of funds, and uses/sources of funds, modes of the process of financial intermediation and the theory of the banking firm. The crucial role of interest rates and structure of interest rates are analyzed as well as the regulatory framework and its impact on banking operations, market structure and performance of the financial intermediation functions of the institutions.

**BAF 831 Managerial Economics**  
3 Units  
Application of principles from various fields in economics and business to management decision making; Price mechanism, allocation of resources, profit drivers of the firm, revenue and cost drivers, interaction among the market players, firms' strategy, understanding market forces, the meaning of competition, pricing and profits,
market power – good or evil, playing games I – Competition versus Cooperation, playing games II – Entry and Exit, Firms versus Markets; Make or Buy, auctions and market design, economics of information.

BAF 833 Derivative Securities and Markets 2 Units
The rapid and extreme development in financial services industry demand that graduates in finance be exposed to financial innovations in recent years. The course in derivatives and markets fulfills these requirements. The course introduces the students to the concepts, types, operations and regulatory framework of financial derivatives markets. It covers traded options, futures/future contracts, forwards, swaps, derivatives exchanges and traded systems.

BAF 834 Micro and Small Business Finance 2 Units
The course covers the problem of provision of microcredit and the financial problems of small business in the economy. Topics covered include: sources, acquisition and use of capital by small businesses; financial analysis relating to income, repayment of capital and risk management, leasing and other finance alternatives, the role of small business in the economy, required government assistance, how microcredit can be effectively provided and the provision of finance by credit institutions as well as the non-financial components to make finance be productively employed.

BAF 836 Advanced Corporate Finance 3 Units
Asset pricing and management; financial and capital structure theories; cost of capital, dividend policy; advanced capital budgeting; mergers and acquisitions; financial performance measurement; financial planning and strategy; sources of finance; leasing; venture capital; working capital management.

BAF 838 Marketing of Financial Services 2 Units
The course covers the nature, characteristics and consequences of financial services, and consequently, the need for products to be marketed in a special way. It is to enable students to skilfully apply marketing concepts, functions, strategies and techniques, for efficient provision of banking financial services. It also requires background knowledge of banking theory and practice for effective application of marketing principles to enhance financial services delivery at profit.

BAF 837 Graduate Seminar 3 Units
Students are expected to present two seminar papers in any area of their interest in Banking and Finance.

BAF 838 Investment and Project Analysis 3 Units
Evaluation of securities; efficiency and technical analysis, ratio analysis, profit planning, definitions of capital projects, capital budgeting techniques, applications of Linear Programming in capital project; feasibility studies: Project conceptualization, design, market; technical economic analysis.
BAF 842 Portfolio Theory and Capital Market Analysis 3 Units
Money markets, Capital markets, Foreign Exchange market; financial institutions; bonds; treasury bills; commercial papers; bankers acceptances; theories of portfolio management, CAPM, OPT, options, portfolio performances; Nigerian capital market in a global economy.

BAF 846 International Business Finance 2 Units
This course covers overview of the international financial system; international banking and financial market, including the foreign exchange risks and management practices by international businesses; Euro-banks and Euro-financing; financing methods in international trade; international financial management, capital budgeting, project finance, and transfer pricing by multinational corporations, foreign direct investment, multilateral investment guarantee and investment codes; intentional business operations in the context of changing global financial developments.

BAF 854 Micro and Small Business Finance 3 Units
Small firm characteristics and trend; start-up situations and development of business plans; ventures and expansion capital; costs and benefits; sources of finance; problems and prospects of small business generally and of small scale industries in particular.

BAF 884 Bank Lending and Loan Administration 2 Units
The course is designed to expose students to the basic principles of lending and credit administration. It covers topics in bank credit organizations, the lending environment and financial statements analysis. Others are sectorial forms of lending such as commercial lending, consumer lending and credit administration. The course involves course work and case studies.

BAF 911 Advanced Theory of Corporate Finance 3 Units
The course treats at the theoretical level the conceptual foundations of funds allocation among assets and assets classes, and analyses the effects of various corporate financial policy decisions (e.g. capital structure and dividends policies) on the value of the firm. It also includes analysis of the effects of taxes, bankruptcy costs, and agency costs on these decisions. The analysis is conducted successively under the assumptions of perfect and imperfect markets, and certainty and uncertainty conditions. In addition it covers recent literature with emphasis on mathematical techniques which have been used to solve problems in portfolio theory, multi period asset pricing models and option pricing models. Financial leverage, market efficiency and information economics, term structure models, capital market equilibrium models, corporate finance issues. Readings are drawn almost exclusively from the theoretical literature of corporate finance.

BAF 913 Advanced Portfolio Theory and Management 3 Units
This course provides an advanced treatment of investment portfolio theories; computer enhanced models used to provide instruction in capital asset portfolio management and
technique. Advanced treatment of diversification theories and applications in asset selection, analysis, and management and risk management are extensively discussed.

**BAF 915 Advanced Theory of Financial Intermediation 3 Units**
This is a more advanced and theoretical treatment of selected topics covered at the master's degree levels. Issues are dealt with in more details, bringing in relevant empirical analysis and proffering future directions of research with seminar papers prepared and presented on specify topics.

**BAF 917 Advanced Research Methodology 3 Units**
The course utilizes advanced research techniques to explore problems in Banking and Finance. In addition, the course teaches students the use of advanced research techniques to investigate empirical issues in Banking and Finance. Some of the topics to be covered, among others include advanced research designs, qualitative and quantitative methods of research, advanced measurement scale, multidimensional scaling, complex sampling approaches, meta-analysis, structural equation modelling in Banking and Finance, conjoint analysis. Specifically, the course aims to expose students to contemporary, but not common, research methods that are relevant for understanding and solving general business management problems. Students are to be exposed to scholarly works in journals and textbooks utilizing relevant advanced research techniques.

**BAF 919 Advanced Quantitative Decision Techniques 3 Units**
This course designed to provide students the opportunity to explore more advanced quantitative techniques for decision-making in general and research in particular. Emphasis will be on: quantitative methodologies in business, export, commerce and international business, multivariate statistical methods, advance topics in optimizing techniques and stochastic models; application of time series, Inbox Number, other vital statistics to issues in business studies. In addition, it covers techniques of mathematical programming as applied in finance-the development of an intuitive appreciation of the techniques as opposed to rigorous mathematical derivation, illustration of the application in financial analysis-to be accomplished via a computer-assessed case, analysis and/or journal articles.

**BAF 920 Empirical Investigations in Finance 3 Units**
Market efficiency tests, term structure theory test, test of asset pricing models, test of divided policy and financial structure issues. Topics focus on statistical and methodological problems encountered in empirical research in related areas of economics and accounting.
BAF 922 Contemporary Issues in Finance 3 Units
This is a seminar to address emerging issues in theoretical and empirical literature in Finance.

BAF 924 PhD Seminar in Finance I 3 Units
Candidates will be required to make a seminar presentation. Each student will be required to produce a manuscript in the usual journal format on the topic under investigation. For these candidates, a sound literature review and development of relevant mathematical models or techniques of analysis related to their research topics will be acceptable.

BAF 926 PhD Seminar in Banking I 3 Units
Candidates will be required to make seminars presentation. Each student will be required to produce a manuscript in the usual journal format on the topic under investigation. For these candidates, a sound literature review and development of relevant mathematical models or techniques of analysis related to their research topics will be acceptable.

BAF 928 Empirical Investigations in Banking 3 Units
Market efficiency tests, term structure theory test, market structure, and financial structure issues. Topics focus on statistical and methodological problems encountered in empirical research in related areas of finance, economics and accounting.

BAF 930 Contemporary Issues in Banking 3 Units
This is a seminar to address emerging issues in theoretical and empirical literature in Banking.

BAF 932 PhD Seminar in Finance II 3 Units
Candidates will be required to make at least two seminars presentations. The first seminar presentation is the thesis proposal if the approved proposal is completed. The second seminar presentation will emphasize the actual results of the students research work.

BAF 934 PhD Seminar in Banking II 3 Units
Candidates will be required to make at least two seminar presentations. The first seminar presentation is the thesis proposal if the approved proposal is completed. The second seminar presentation will emphasize the actual results of the students research work.

BAF 936 Thesis 12 Units
An empirical based study and report on an acceptable Banking/Finance problem area.
BAF 997  Teaching Seminar  3 Units
Supervised university teaching including techniques, course and curriculum design, and evaluation. Students will prepare and present lectures with direct observations and videotaping for discussion.

LIST OF ACADEMIC STAFF IN BANKING AND FINANCE

<table>
<thead>
<tr>
<th>S/N</th>
<th>NAME</th>
<th>QUALIFICATION</th>
<th>DESIGNATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Prof. Eugene O. Nwadialor</td>
<td>PhD, MSc, MBA, FCA, ACTIN, Financial Economics &amp; International Accounting</td>
<td>Professor</td>
</tr>
<tr>
<td>3.</td>
<td>Prof. Festus C. Eze</td>
<td>PhD, M. A., BA, Human Resource &amp; Business Communication</td>
<td>Professor</td>
</tr>
<tr>
<td>4.</td>
<td>Dr. Simon N. Nwankwo</td>
<td>PhD, MBA, B.Sc, Banking Finance</td>
<td>Lecturer I</td>
</tr>
<tr>
<td>5.</td>
<td>Dr. Sergius N. Udeh</td>
<td>PhD, MBA, B.Sc, CNA, ACMA, HCIB Accounting</td>
<td>Senior Lecturer</td>
</tr>
<tr>
<td>6.</td>
<td>Dr. Michael C. Nwafor</td>
<td>PhD, MBA, B.Sc, FCAI, Insurance</td>
<td>Senior Lecturer</td>
</tr>
<tr>
<td>7.</td>
<td>Dr. Titus F.I Nwanne</td>
<td>PhD, MBA, PGD, B.Sc, HCIB, Banking and Finance</td>
<td>Assoc. Professor</td>
</tr>
<tr>
<td>8.</td>
<td>Dr. Oliver Inyiama</td>
<td>PhD, MBA, HND, FCA, Accounting</td>
<td>Lecturer I</td>
</tr>
<tr>
<td>9.</td>
<td>Dr. Ifeanyi Onwuka</td>
<td>PhD, M.Sc, ACIB, ACE, B.Sc, Banking and Finance</td>
<td>Lecturer I</td>
</tr>
</tbody>
</table>
DEPARTMENT OF BUSINESS MANAGEMENT
POSTGRADUATE PROGRAMMES IN MANAGEMENT

1. Philosophy
The general philosophy of programmes in Business Management is to provide graduate education and training in the various areas of Administration, in order to develop and deepen the spirit of enquiry and responsibility in the graduate students, to take on research, teaching and administrative responsibilities, in public and private sectors of the nation and global economies.

2. Objectives
Provide an in-depth understanding of the various programmes in the disciplines.

a. Provide training in research for those whose future careers will be in teaching and research at the university, other institutions and for those who may have to operate in research and development environments in the public and private sectors.

b. Provide training aimed at improving and upgrading the existing and potential human resources needed for national development.

3. Programmes in the Department
The department offers the following higher degrees:

i. PGD in Management
ii. M.Sc. in Management
iii. M.Sc. in Operations Management
iv. PhD in Management

4. Admission Requirements
I. Postgraduate Diploma Programme
Provided the matriculation requirements are satisfied;

a. Five credit passes including English Language and Mathematics at the 'O' level.

b. Relevant Bachelor's Degrees not lower than third class Division from recognized Universities.

c. Bachelor's Degree with at least second class Lower Division in areas not related to Management may be considered.

d. Higher National Diploma at Upper credit level.

e. Relevant professional qualifications.
ii. Master's Degree
Provided the University's matriculation requirements are satisfied;

a. Degree in relevant area from a recognized University with a minimum of second class lower division may be admitted.

b. A postgraduate diploma at Upper credit level in relevant area from a recognized university.

iii. PhD Programme
Candidates for the PhD programme should possess a M.Sc. degree in Business Administration/ Management/ Operations Management with a minimum CGPA of 3.50. Admission would be based on the availability of supervisors.

5. Duration
A common and uniform duration for the programme for all universities, making allowance for minor individual university variation shall be adopted as follows:

i. Postgraduate Diploma Programme (PGD)

a. Full-time Diploma: Minimum of two (2) semesters and a maximum of four (4) semesters.

b. Part-time Diploma: Minimum of four (4) semesters and a maximum of six (6) semesters.

iii. Master's Degree Programmes

a. Full-time: A minimum of four (4) semesters and a maximum of six (6) semesters.

b. Part-time: A minimum of six (6) semesters and a maximum of eight (8) semesters.

iv. PhD Programme
The course is offered on a full and part-time basis:

a. Full-time: A minimum of six (6) semesters, maximum of (10) semesters.

b. Part-time: A minimum of ten (10) semesters and a maximum of twelve (12) semesters.

For extension beyond the specified maximum period, a special permission from the Postgraduate Board shall be required.
6. Requirements for Students Supervision
The requirement for supervision of postgraduate students shall be as follows:

i. A Supervisory Committee shall consist of a minimum of 1 and a maximum of 2 supervisors for each postgraduate student on the master's programme and a minimum of 2 and maximum of 3 for doctoral degree programmes. One of the supervisors shall be designated the main supervisor and chairman, supervisory committee; and others; co-supervisors.

ii. All lecturers qualified to teach postgraduate courses and who are not registered postgraduate students shall be eligible to supervise Master's degree candidates. For the PhD, supervisors must be of a rank not lower than senior lecturer and must not be registered postgraduate students.

iii. A supervisor shall guide a student in his studies and keep a record of the candidate's progress and submit a regular progress report through the established channels to the Postgraduate School Board.

iv. A supervisor may be changed where and when necessary subject to the approval of the Postgraduate School Board.

7. Examinations

Course Work

a. For all postgraduate course work, the minimum pass score shall be 50%; continuous assessment shall constitute 30% of the examination for each course.

b. To be in good standing, a student must in each semester have a Cumulative Grade Point Average (CGPA) of not less than 3.00.

c. A student whose Cumulative Grade Point Average is below 3.00 at the end of a particular year of study, shall be placed on probation for one academic session.

Note: Scoring and grading of courses shall be as follows:

<table>
<thead>
<tr>
<th>Letter Grade</th>
<th>Grades</th>
<th>Grade Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>70 and above</td>
<td>A</td>
<td>5</td>
</tr>
<tr>
<td>60 – 69</td>
<td>B</td>
<td>4</td>
</tr>
<tr>
<td>50 – 59</td>
<td>C</td>
<td>3</td>
</tr>
<tr>
<td>Below 50</td>
<td>F</td>
<td>0</td>
</tr>
</tbody>
</table>
8. **Thesis/Dissertation**
A panel of examiners shall be constituted to assess a thesis or dissertation according to Godfrey Okoye University characteristics, but the examination shall at least, be guided by the following:

i. Postgraduate Diploma Project Report should be subject to moderation by an external examiner.

ii. Master's Thesis/Dissertation

**Panel of Examiners**

a. Head of Department (Chief Examiner)
b. External Examiner (Chairman, Panel of Examiners)
c. Supervisors
d. A Representative of Postgraduate School Board

iii. PhD Thesis

**Panel of Examiners**
a. Head of Department (Chief Examiner)
b. External Examiner (Chairman, Panel of Examiners) Supervisors
c. One other member who is not below the rank of a Senior Lecturer with PhD from a related Department within the university to be appointed by the Department subject to the approval of Postgraduate School.
d. A Representative of Postgraduate School Board.

9. **Academic Regulations**

i. **Academic Session**
An academic session consists of two semester. Each semester normally comprises 15 weeks of teaching and two weeks of examinations.

ii. **Course Unit System**
All Postgraduate programmes shall be run on a Course Unit System. Credit weights should be attached to each course

iii. **Definition of Credit or Unit**
Credits are weights attached to a Course. One credit is equivalent to one hour per week per semester of 15 weeks of lecturers or tutorials or three hours per week of term paper work/laboratory work/practical's per semesters of 15 weeks.

iv. **Registration Procedure**
Students shall normally complete registration for courses or the programme not later than two weeks after the start of the semester. A student cannot withdraw
from a taught course after a third of it has been given without permission from the Head of Department. A student who withdraws after this time or who fails to sit for the final examination without reasons acceptable to the Senate shall be deemed to have failed that course.

v. Attendance
In order to be eligible for examination in a particular taught course, a student shall have attended a minimum of 75% of the total period of formal instructions delivered for the course.

10. Workload for Postgraduate Programmes
Definition: A unit of workload consists of one hour lecture per week for 15 weeks (one semester).

a. No course shall carry less than 2 credit units.
b. A Postgraduate Diploma shall have a minimum of 28 credit units of workload broken into 24 credit units of course work and 4 credit units of project report.
c. A Master's Degree programme shall have a minimum of 36 credit units of workload, broken into 30 credit units of course work and 6 credit units of dissertation/thesis.
d. The Ph.D. programme requires a minimum of 36 credit units made up as follows:
   I) Six core courses (3 credit units each) - 18 credit units
   ii) Three elective courses (2 credit units each) - 6 credit units
   iii) Thesis (12 Units)

11. Domain of Programmes
All postgraduate programmes identified in this document shall be domiciled in the relevant units of the Departments of Business Management.

Postgraduate Diploma Programme (PGD)
I. Course Structure
The PGDM programme requires a minimum of 30 credit units made up as follows:
- Thirteen core courses (2 credits each) 26 units
- Research Project 4 units

Master's Degree Programmes
ii. Course Structure
The MSc Management programme requires a minimum of 36 credit units made up as follows:
The PhD Management programme requires a minimum of 36 credit units made up as follows:

- 5 core courses (3 credits each) 15 units
- Three electives (2 seminars and 1 course) 9 units
- Thesis 12 units

12 Doctoral Seminar
Three seminar papers will be required from every doctoral student before the completion of the programme. The three papers, which should be well researched will focus on policy issues (administration, agriculture, planning, public finance, local government, the environment, health etc.)

13 Doctoral Thesis
The heart of the doctoral programme is the doctoral dissertation, incorporating the result of an original research designed and implemented by the candidate. Preparation of the dissertation shall be in three stages:

a) The formulation and presentation of a research design in accordance with the approved format, to the faculty postgraduate committee.

b) The implementation of the research project through empirical study and analysis; and the preparation of research report i.e. the dissertation in the approved form under the close supervision of approved supervisors. The research should make a concrete contribution to knowledge.

The doctoral defence will be carried out before the Faculty postgraduate committee in the presence of the External Examiner.
## Course Outline

### PGD

#### First Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAN 701</td>
<td>Principles of Management</td>
<td>2</td>
</tr>
<tr>
<td>MAN 711</td>
<td>Quantitative Techniques</td>
<td>2</td>
</tr>
<tr>
<td>MAN 713</td>
<td>Research Methodology</td>
<td>2</td>
</tr>
<tr>
<td>MAN 715</td>
<td>Business Mathematics</td>
<td>2</td>
</tr>
<tr>
<td>ACC 701</td>
<td>Principles of Accounting</td>
<td>2</td>
</tr>
<tr>
<td>BAF 701</td>
<td>Principles of Finance</td>
<td>2</td>
</tr>
<tr>
<td>MKT 701</td>
<td>Fundamentals of Marketing</td>
<td>2</td>
</tr>
<tr>
<td>ECO 723</td>
<td>Principles of Micro Economics</td>
<td>2</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>16</strong></td>
</tr>
</tbody>
</table>

#### Second Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAN 702</td>
<td>Elements of Business Administration</td>
<td>2</td>
</tr>
<tr>
<td>MAN 722</td>
<td>Introduction to Public Administration</td>
<td>2</td>
</tr>
<tr>
<td>MAN 724</td>
<td>Human Resources Management</td>
<td>2</td>
</tr>
<tr>
<td>MAN 726</td>
<td>Computers in Organization</td>
<td>2</td>
</tr>
<tr>
<td>MAN 728</td>
<td>Business Statistics</td>
<td>2</td>
</tr>
<tr>
<td>MAN 738</td>
<td>Global Economic Environment</td>
<td>2</td>
</tr>
<tr>
<td>MAN 788</td>
<td>Research Project</td>
<td>4</td>
</tr>
<tr>
<td>ECO 722</td>
<td>Principles of Macro Economics</td>
<td>2</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>18</strong></td>
</tr>
</tbody>
</table>

### M.Sc.

#### First Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAN 821</td>
<td>Management Theory</td>
<td>2</td>
</tr>
<tr>
<td>MAN 825</td>
<td>Research Methodology</td>
<td>2</td>
</tr>
<tr>
<td>MAN 827</td>
<td>Global Economic Environment</td>
<td>2</td>
</tr>
<tr>
<td>MAN 829</td>
<td>Corporate Finance</td>
<td>2</td>
</tr>
<tr>
<td>MAN 833</td>
<td>Strategic Management</td>
<td>2</td>
</tr>
<tr>
<td>MAN 837</td>
<td>Quantitative Analysis</td>
<td>2</td>
</tr>
<tr>
<td>MAN 839</td>
<td>Management Information System</td>
<td>2</td>
</tr>
<tr>
<td>ECO 835</td>
<td>Management Economic Theory</td>
<td>2</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>16</strong></td>
</tr>
</tbody>
</table>
### Elective Courses (2)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAN 823</td>
<td>Organization Development I</td>
<td>2</td>
</tr>
<tr>
<td>MAN 835</td>
<td>Economy and Industry Analysis</td>
<td>2</td>
</tr>
<tr>
<td>MAN 851</td>
<td>Operations Management I</td>
<td>2</td>
</tr>
<tr>
<td>MAN 853</td>
<td>Project Management</td>
<td>2</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>18</strong></td>
</tr>
</tbody>
</table>

### Second Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAN 824</td>
<td>Human Resources Management</td>
<td>2</td>
</tr>
<tr>
<td>MAN 828</td>
<td>Strategy and Structure</td>
<td>2</td>
</tr>
<tr>
<td>MAN 834</td>
<td>Comparative Management</td>
<td>2</td>
</tr>
<tr>
<td>MAN 836</td>
<td>Organisation Behaviour</td>
<td>2</td>
</tr>
<tr>
<td>MAN 844</td>
<td>Diversity and Conflict Management</td>
<td>2</td>
</tr>
<tr>
<td>MAN 848</td>
<td>Rewards and Compensation Management</td>
<td>2</td>
</tr>
<tr>
<td>MAN 888</td>
<td>M. Sc. Research Seminar</td>
<td>2</td>
</tr>
<tr>
<td>MAN 898</td>
<td>Thesis</td>
<td>6</td>
</tr>
</tbody>
</table>

### Elective Courses (2)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAN 854</td>
<td>Operations Management II</td>
<td>2</td>
</tr>
<tr>
<td>MAN 858</td>
<td>Statistical Tools for Operations Managers in Organization</td>
<td>2</td>
</tr>
<tr>
<td>MAN 866</td>
<td>Organization Dev. II</td>
<td>2</td>
</tr>
<tr>
<td>MAN 868</td>
<td>International Business Management</td>
<td>2</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>22</strong></td>
</tr>
</tbody>
</table>

### Ph.D

#### First Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAN 911</td>
<td>Management Thought and Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>MAN 913</td>
<td>Imperatives of Globalization</td>
<td>3</td>
</tr>
<tr>
<td>MAN 915</td>
<td>Advanced Research Methodology</td>
<td>3</td>
</tr>
<tr>
<td>MAN 917</td>
<td>Seminar on Strategic Management and Entrepreneurship Development</td>
<td>3</td>
</tr>
<tr>
<td>MAN 919</td>
<td>Advanced Quantitative Techniques</td>
<td>3</td>
</tr>
<tr>
<td>MAN 997</td>
<td>Teaching Seminar</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>18</strong></td>
</tr>
</tbody>
</table>
### SECOND SEMESTER

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAN 998</td>
<td>Dissertation</td>
<td>12</td>
</tr>
</tbody>
</table>

**Electives (2 Seminar and 1 Course)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAN 918</td>
<td>Seminar on Human Resources Management</td>
<td>3</td>
</tr>
<tr>
<td>MAN 924</td>
<td>Management of Change</td>
<td>3</td>
</tr>
<tr>
<td>MAN 926</td>
<td>Government Business and Society</td>
<td>3</td>
</tr>
<tr>
<td>MAN 928</td>
<td>Advanced Management Theory</td>
<td>3</td>
</tr>
<tr>
<td>MAN 932</td>
<td>Organization Development</td>
<td>3</td>
</tr>
<tr>
<td>MAN 936</td>
<td>Seminar on Public Enterprises Management</td>
<td>3</td>
</tr>
<tr>
<td>MAN 938</td>
<td>Multinational Enterprises</td>
<td>3</td>
</tr>
<tr>
<td>MAN 942</td>
<td>Advanced Conflict Management</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total** 36
COURSE DESCRIPTION

MAN 701  Principles of Management  2 Units
The development of management thought; theories and models of management; the
manager and his environment; organisation structure and relationship; leadership and
motivation; organisation development; the management functions and procedures;
planning; organizing; directing; controlling etc.

MAN 702  Elements of Business Administration  2 Units
This is an introductory course which examines the nature and scope of business
activities. Topics include the concept of business administration and its distinction from
public administration; functional areas of business finance, production, marketing etc;
source of financing business activities; retail outlets and marketing channels; commercial
documents; bills of exchange and entrepreneurial development.

MAN 711  Quantitative Techniques  2 Units
The nature and objectives of statistics, frequency distributions, measures dispersion,
essentials of probability, statistical distribution; basic sampling techniques, decision
theory, index numbers, time series, correlation and regression analysis; introduction to
Linear Programming; practice in the use of Computer in problem solving.

MAN 713  Research Methodology  2 Units
The objective of this course is to introduce students to scientific enquiry through
gathering and analyzing relevant data.

MAN 722  Introduction to Public Administration  2 Units
The course focuses on the emergence of public administration; problems of organisation,
the bureaucratic phenomenon and social change. The basics of public policy formulation
and implementation processes by bureaucracies; accountability and efficiency in public
administration.

MAN 724  Human Resource Management  2 Units
Topics to be addressed in this course include Nature and scope of HRM; strategies and
management practices in human resource planning; staffing; human resource planning;
human resource training and development; performance measurement and management,
career planning and employee welfare; compensation designs and reward management.

MAN 726  Computers in Organisations  2 Units
This course explains the why and how of computers, the use of computers in Business
and other organisations; Data transmission, nature, speed and error detection. It also
examines systems analysis and design, the programming process; problem definition,
flow charting and decision table.
MAN 728    Business Statistics                2 Units
This course covers basic concepts in descriptive and inferential statistics and their uses in empirical research.

MAN 738    Global Economic Environment       2 Units
Topics to be treated include Nigeria and the global economy, the implications of the free market economy on business; government, consumers, and labour and public. Strategic aspects of international trade, globalization and international institutions; multilateral negotiations; lessons from the Asian tigers.

MAN 788    Research Project                4 Units
A research based study and report in an acceptable management problem area approved by the supervisor and the Head of Department.

MAN 821    Management Theory                2 Units
The course seeks to expose students to basic issues and theories with regards to the practice of management in contemporary organisations. It examines the introduction and integration of the evolution and the development of theories and concepts, and their application in the field of management. Students are expected to critically analyze the different perspectives within the field of management. Development of management models (Rational goals, internal process, human relations and open systems models): organisational effectiveness, environments, technology design and performance; images of organisations and implications for research and practice; organisational ecology; institutional theories; organisational culture and climate; organisational learning and globalization of organisation theory. The intent is to build a theoretical foundation for the understanding of Management issues, and provide guidance for research activities in the programme.

MAN 823    Organization Development        2 Units
Topics include meaning and nature or Organization Development (OD), its values, its features and interdisciplinary mix especially nexus with HRM. Evolution of OD, OD roles and competencies, OD careers, OD practitioners and challenges of making consulting effective. Power and politics in OD: Consulting Ethics for OD Consultants. Organizational Diagnosis: Meaning, nature and approaches. Organizational Development Interventions, types and choices, benefits of interventions, programme management, implementation and Evaluation.

MAN 824    Human Resource Management        2 Units
This course will familiarize students with the basic responsibilities of the human resources functions in organisations. The course covers topics such as strategic planning,
job analysis, recruitment, selection, training and development, career planning, performance appraisal, compensation and international HRM. Students will learn about the various tools and techniques available to human resources professionals (such as environmental scanning, Delphi methods and transition probability matrices, performance appraisal instruments, selection techniques, job evaluation methods, and some of the various applications of needs analysis) through lectures, case analyses, students presentations, and the text book with supplemental readings.

MAN 825  Research Methodology  2 Units
This course is designed to sharpen the students' skills and appreciation of organized enquiry. Topics to be covered include the following: Meaning and nature of research; comparison between research, common sense and science; Types of research; the research cycle; selecting research topics, problem and hypotheses formulation, Research design; research instruments and Data collection, Data Analysis and interpretation; research report, Research and the issue of relevance; ethical issues in research.

MAN 827  Global Economic Environment  2 Units
This situates the Nigerian economy within the broader global economy. It examines the implementation of the movement towards free market economy by stakeholders including business, government, consumers, labour and the public. The course takes a multidisciplinary approach drawing from international politics, economy, finance, cross-cultural and business management. Topics covered include strategic aspects of international trade, globalization/international institutions, industrialization strategies, determinants of economic growth and poverty reduction in Africa; global power and wealth distribution; lessons from Asian and Mexican financial crises; multilateral negotiations, global culture and information technology, exchange rates/inflation/interest rates.

MAN 828  Strategy and Structure  2 Units
The course will build on a base of the study of organisations and focus on the ways organisations are structured to suit the evolving strategies and the mutual impact of strategy and structure.

MAN 829  Business Policy  2 Units
The course deals with the corporate Management of the business enterprise. The first part focuses on the nature and dynamics of business policy, the strategy concept and objectives. The rest of the course will cover the strategic Planning process, stakeholders management, techniques for strategic appraisal, SWOT, industry and competitive portfolio analysis, development of strategic options, turn over and recovery strategy, mergers, acquisitions and divestment.
**MAN 833 Strategic Management** 2 Units
This course deals with theoretical and practical aspects of strategy formulation and implementation. Attention is placed on the art of strategic thinking leading to creativity and innovation as well as the rational strategic planning process. Among the topics covered are the following: analyzing industry structures and dynamics; assessing positions, actions and reactions of competitors; processes of strategic planning, technology strategy and e-business, process re-engineering and corporate turnaround. Case writing and analysis are fundamental to this course.

**MAN 835 Economy and Industry Analysis** 2 Units
The basis of formulating strategy is the assessment of the Economy in all its dimensions. The course will focus on the concepts and techniques used in economy and industry analysis and in identification of trends and changes in the environment. These will include, economic, social and technological forecasting, Delphi methods, Scenario.

**MAN 836 Organisational Behaviour** 2 Units
This course is designed to aid students in understanding organisations both at the Micro and Macro levels. Specifically, this course rigorously examines the structure, function and people in organizations and society. Topics include organisational dynamics- micro and macro perspectives; organisations and the systems concept, organisational entry, motivation and job satisfaction, bases of individual attitudes and behaviours in organisational settings, individual and their relationships in organisations; and group and inter group behaviours; organisational structures; Typology/Taxonomy of organisations; organisational efficiency and effectiveness; organisational politics; organisational change and development; technology and organisational structure; organisations and environment; organisational design.

**MAN 837 Quantitative Analysis** 2 Units
Analytical tool is very vital to the acquisition and development of managerial skill. Hence, there is the need to expose students to basic quantitative analysis and reasoning, and its application to management decision making. Topics to be covered include set theory; basic concepts in probability; probability distribution; decision theory; forecasting models and techniques, linear programming (graphic and simplex methods); introduction to operation research; network modes and simulation.

**MAN 839 Management Information System (MIS)** 2 Units
This course is designed to expose students to the practical application of computers to management information processing. The course provides the steps followed in the utilization of electronic data processing (EDP) system in producing financial and management information, in feasibility studies; system analysis, system design and
system implementation for computerized accounting system. Among other things, the course will examine the following issues: Elements of computing mechanical and electronic, types of computers and their applications, computer programming using either COBOL or FORTRAN, data processing manual and mechanized systems, system analysis and design, evaluation and administration of MIS with emphasis on computer based systems, meaning of information technology and its application in business finance and management.

MAN 841 Corporate Finance 2 Units
This course is designed to introduce students to an advanced treatment of theories and its three decision areas of financing, investment and dividend. The course therefore examines the effects of various corporate financial policy decisions (e.g. capital structure, working capital, and capital budgeting and dividend policies) on the values of the firm. Issues to be thus examined include:- Financial structure, capital structure, market valuation of risky assets under uncertainty, risk and uncertainty management strategies, capital budgeting, operation of capital market and money market, analysis for investment in securities, portfolio theories and the concept of diversification, efficient market theory, cost of capital, dividend policy, corporate financial problems e.g. leasing, mergers, and of new securities, the institution of Zakat, the insurance debate and the non-interest banking and financial system.

MAN 844 Diversity and Conflict Management 2 Units
This course deals with managing and resolving workplace conflicts and examines dispute resolution and conflict management in both various and non-various settings. The course covers two related topics: (1) third-party dispute resolution, including alternative dispute resolution (ADR). It focuses primarily on the use of mediation and arbitration, but also deals with other dispute resolution techniques, such as fact finding, facilitation, minitrials, early neutral evaluation peer review, and the ombudsman function; (2) conflict management in organisations, including the recent development of conflict management systems. The course reviews the factors that have caused the growth of ADR and conflict management systems, and it provides instruction on the design, implementation and evaluation of such systems.

MAN 851 Operations Management I 2 Units
This course seeks to introduce to the graduate students to operations and productivity, operations strategy in a global environment, Design of goods and services, Managing quality, Statistical Process control, Process Strategy, Capacity Planning, Location and layout strategies and Work measurements.
MAN 853  Project Management  2 Units
Meaning, impact and applications of project management on operations; Project management; critical success factors; project management in Nigeria; frame work for assessment of quality of project management practices; organizational project planning models – Gantt (CPM, and PERT): Monitoring and evaluation of project/ programme operations.

MAN 854  Operations Management II  2 Units
This course is designed to aid the graduate students in supply-chain management, E-commerce and operations management. It exposes them to the practical skills in inventory management, aggregate planning, Material Requirements Planning (MRP) and ERP. Other topics covered include operations scheduling, Just-in-Time and Lean Production System, maintenance and reliability.

MAN 858  Statistical Tools for Operations Managers 2 Units
This course seeks to deepen in the graduate students, understanding of quantitative analysis. These include acceptance sampling, the Simplex method of Linear Programming, the MODI and VAM methods of solving transportation problems, vehicle routing and scheduling. Case studies in these areas are examined as they affect the Nigerian business environment.

MAN 868  International Business Management  2 Units
The course focuses on the international dimension of business, including trade, financial and foreign investment patterns, problems and policies at the corporate and national levels. It covers theoretical, institutional and case analyses of major issues, including the impact of international codes and organisations on corporate policies in home and host countries, the effect of changing governmental policies on strategies for managing international operations. Using a wide range of data sources, cases, and other empirical studies, each student will prepare an individual study of a specific company and country.

MAN 898  Thesis  6 Units
Students are expected to carry out independent empirical investigations of selected management issues. Students are required to complete original research project.

MAN 911  Management Thought and Philosophy  3 Units
This course examines the idea and evolution of management as a field of endeavour.

MAN 913  Imperatives of Globalization  3 Units
Globalization Overview: why has the global economy grown so rapidly? How is it affecting the environment, local economics, and social and cultural customs throughout
the world? Questioning Free Trade: What are the positive and negative impacts of free trade? Economic globalization and technological changes: these processes are examined in relation to the national development or under-development. It also examines multinational companies, their histories, the reasons for these companies' special mobility and the impact on the developing world; Globalization and the environment; Social Equity: Is social equity relevant to trade issues? What is gained and lost through the gradual homogenization and distortion of cultures as a result of globalization?

**MAN 915  Advanced Research Methodology  3 Units**

The objective of this course is to deepen the students' understanding of the traditional scientific research methods. Topics to be discussed include research in social, physical and natural sciences; problems of research in developing countries; common errors in research; types of research; and research in practice: selecting a topic, problem and hypotheses formulation, research design, instruments and data collection, data analysis and interpretation, research report etc. Qualitative research methods and approaches will also be discussed. Topics to be discussed include: phenomenography, activity theory and ethnography, data collection methods such as interviews, field studies and rapid rural appraisal, and observations and evaluation of data collected through qualitative approaches.

**MAN 917  Seminar on Strategic Management and Entrepreneurship  4 Units**

Students will gain a proper understanding of business enterprises and the entrepreneurial and strategic thinking that drives them in a dynamic, competitive regional, national, and global economy. Students will learn to apply entrepreneurial and strategic management practices (e.g. using case analysis) to organisations of varying sizes. An integral component, failures studies, shall involve an introduction into thinking about the future, the foundation of the field, its methodologies, link to planning, decision-making, strategy and public policy. The relationship between core competencies (at the company level) and key success factors at the industry level shall be examined.

**MAN 918  Seminar on Human Resources Management  3 Units**

This seminar introduces students to the most recent research in the area of HRM, examining current issues and trends. Students have an opportunity to present and discuss their own research and actively engage in the analysis and discussion of the work of others. Each student is expected to make at least one presentation during the course, focusing on the formulation, design, execution, and results of his/her research.

**MAN 919  Advanced Quantitative Analysis  3 Units**

It is designed to provide students with the opportunity to explore more advanced quantitative techniques for decision-making in general and research in particular.
Emphasis will be on multivariate statistical methods, advanced topics in optimization techniques and stochastic models.

**MAN 924 Management of Change**  
3 Units  
Management of change is designed to acquaint participants with the issues, techniques, and strategies for the management of change. The first part of the course concentrates on developing expertise in predicting relevant changes in the organisation's task environment and making sure that change initiatives are in harmony with environment. Techniques for environmental scanning and task forecasting will be explored and useful models analyzed. Students will also discuss and make presentations on current issues such as employee ownership, team-based management, mergers and acquisition, and organisational renewal, etc. By the end of the course, participants will understand the techniques for creating a change, managing resistance, and applying change models to various industries and situations.

**MAN 928 Advanced Management Theory**  
3 Units  
The objective of this course is to provide students with knowledge of advanced management theory and research. Management is an applied discipline that is informed by professional scholarly research in management and related fields (e.g. psychology, economics). This course provides an in depth review of management theory and research, an advanced review of influential theories in the development of management thought, and an overview of contemporary theories and research in management. Reading materials shall largely be scholarly articles in refereed journals.

**MAN 932 Advanced Organisation Development**  
3 Units  
It is designed to provide students with the knowledge of Organisational Diagnosis, meaning and nature, approaches, inquiry, methods and types; Diagnostic models, feedback. Types of Interventions, Techno-structural Interventions: Job redesign; workplace redesign, Re-engineering and Organisational restructuring, Transformation and turnaround Planning and Training for Interventions, e.t.c. Future of OD, strength of OD Ethics for OD practitioners.

**MAN 938 Multinational Enterprises**  
3 Units  
This course covers World Trade Organisation (WTO) and multilateral trade agreements. The course will present an overview of the WTO and then focus on multilateral trade negotiations. Multilateral trade agreements shall be studied in four parts: trade in goods, trade in services, trade-related aspects of intellectual property rights and institutional issues. Agreements on trade in goods are further divided into three subcategories: market access, customs-related issues and trade rules. Lastly, this course will look at the future challenges facing the current multilateral trading system. Although this course deals with trade agreements, it will lay more emphasis on economic interpretation rather than the legal aspects. For this course, outside scholars
and experts from policy, academic, and private sectors may be invited as special guest lecturers.

**MAN 942  Advanced Conflict Management  3 Units**

This course is designed to provide an understanding of intercultural management useful for international management and trade negotiations. Participants are expected to study the different ways various cultures think, communicate and behave, particularly within business contexts, in order to develop a necessary level of cross-cultural competency. Today's global business implies co-operating, coordinating, negotiating and supervising, using management processes appropriate to the cultural context. The student will explore cultural implications in those management processes, as well as their impact on teambuilding, ethics, conflict resolution and creative problem-solving. Students will also study their own culturally-based perceptions, patterns of thinking and behaviour, communication styles, values and how they can be adapted to an intercultural context. Although the course will primarily deal with cultural differences in national culture context, it will also address cultural differences in gender and in organisational level to the extent that they affect the global business environment.

Foundations and theories of conflict: Theories of conflict resolution - An interdisciplinary approach to examination of conflict and conflict resolution theory; responses to conflict - An examination of the different approaches to conflict resolution represented by two party negotiation, facilitative processes such as mediation, the various evaluative processes, adjudicative processes such as litigation and binding arbitration, and the various hybrid processes; negotiation; mediation skills clinic - A basic introduction to mediation skills, theory and ethics; interpersonal and intergroup conflict; An in-depth study of the dynamics of interpersonal and intergroup conflict; organisational and community conflict - an exploration of the dynamics of conflict in organisations and the community; international and cross-cultural conflict - an examination of the practical negotiation skills central to the resolution of situation-specific international and intercultural conflict.

Methodology of Conflict Resolution Research - an introduction to a range of qualitative data collection methods with particular focus on techniques used in research on conflict and conflict resolution, including participant observation, content analysis, behavioural mapping, and non-intrusive measures, as well as a review of relevant research literature in the field.

**MAN 997  Teaching Seminar  3 Units**

Supervised university teaching including techniques, course and curriculum design, evaluation. Students will prepare and present lectures with direct observations and videotaping for discussion.
**MAN 998   Dissertation**  
An empirical-based research in management is required from all students.

**PhD Seminar**
This seminar introduces students to the most recent research in the area of Management and organisational analysis, examining current issues and trends. Students have an opportunity to present and discuss their own research and actively engage in the analysis and discussion of the work of others. Each student is expected to make at least one presentation during the course, focusing on the formulation, design, execution, and results of his or her research.

### ACADEMIC STAFF IN MANAGEMENT

<table>
<thead>
<tr>
<th>S/N</th>
<th>NAME</th>
<th>QUALIFICATION</th>
<th>SPECIALIZATION</th>
<th>DESIGNATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Prof. Festus C. Eze</td>
<td>B.A, M.A., PhD</td>
<td>Human Resources Management, Business Communication</td>
<td>Professor</td>
</tr>
<tr>
<td>2.</td>
<td>Prof. John A. Eze</td>
<td>M.A</td>
<td>Business Policy, Corporate Planning &amp; Small Business</td>
<td>Professor</td>
</tr>
<tr>
<td>3.</td>
<td>Prof. Johnny Eluka</td>
<td>B.Sc., MBA, PhD</td>
<td>Organisational Behaviour, Entrepreneurship Development</td>
<td>Professor (PT)</td>
</tr>
<tr>
<td>5.</td>
<td>Dr. Nick Obodo</td>
<td>LL.B (HONS), MBA, PGD, M.Sc., SEMP LL.M</td>
<td>Diversity &amp; Conflict Management, Global Economic Development</td>
<td>Assoc. Professor</td>
</tr>
<tr>
<td>6.</td>
<td>Dr. OgeMonanu</td>
<td>B.Sc., MBA, M.Sc., PhD</td>
<td>Entrepreneurship Development, Management Theory</td>
<td>Senior Lecturer</td>
</tr>
<tr>
<td>7.</td>
<td>Dr. Paschal Ohalehi</td>
<td>B.Sc., M.Sc., PhD</td>
<td>Forensic Accounting &amp; Management</td>
<td>Senior Lecturer (Visiting)</td>
</tr>
<tr>
<td>8.</td>
<td>Dr. Anthony Idede</td>
<td>B.Sc., MPA, M.Sc. PhD</td>
<td>Performance Measurement</td>
<td>Lecturer I</td>
</tr>
</tbody>
</table>
POSTGRADUATE PROGRAMMES IN PUBLIC ADMINISTRATION

1. Philosophy
The specific philosophy of the post-graduate Diploma programme is to provide remedial training in basic courses in Public Administration for persons who do not hold a first degree in Public Administration; and who desire to acquire administrative skills and knowledge to qualify for managerial positions in public or private sector organizations. The course is designed to provide understanding of the core courses in public administration, as well as provide knowledge of the basic skills and tools for decision making in the public and private sector. In addition, the Post-Graduate Diploma in Public Administration can qualify students for admission to pursue the M.Sc. degree in Public Administration in the department, where prospective candidates hold degrees outside mainstream social science and management fields.

M.Sc. Public Administration
The philosophy of the programme underscores the need to provide graduate education and training in public administration, which broadens the intellectual exposure of students in the discipline, develop their capacity to undertake rigorous and quality research in the core areas of the discipline, and apply theoretical understanding and research results to problem solving.

Objectives
PGD Public Administration (PGDPA)
The first major objective of the post-graduate programmes in the Department of Business management (Public Administration Programme) is to train a distinctive class of actors for the Nigerian civil and public services of the 21st century and beyond. This group of public officials would demonstrate expertise in the utilization of a wide range of analytical methods and management skills in solving emerging social and economic challenges facing the Nigerian Society. A second objective of the programmes is to prepare suitable candidates for academic careers in public administration. In the main, the programmes, are as follows:

M.Sc. Public Administration
The M.Sc. programme in Public Administration has three objectives. The first objective is to provide students in the programme with a good theoretical knowledge of public administration. The second is to adequately prepare candidates for academic careers in Public Administration. The third objective is to develop the students expertise in the
functional areas of Public Administration so that they may further push the frontiers of public administration theory and practice and enhance the contributions that Public Administration could make to nation building.

**Ph.D Public Administration Programme**

**Philosophy and Objectives:**
The doctoral programme in Public Administration, is designed to provide specialized knowledge to persons who wish to pursue academic and research careers in the university system. More specifically the programme will through its comprehensive course offerings assist students in developing needed competencies that will enhance their capacity for research, and taking on other research responsibilities in public and private institutions and organizations in the nation and elsewhere. Again, the programme will provide training aimed at improving and upgrading the existing and potential manpower needed for national development.

2. **Admission Requirements**

**PGD Public Administration**
In addition to satisfying all matriculation requirements, candidates must have five credit passes including English language and mathematics at the ordinary level (O'level). In addition candidates are required to have relevant Bachelor's Degree not lower than Third Class Division from recognized universities. Candidates with bachelor's degrees having at least second class lower division in areas not related to administration may be considered.

Others include:
a) Holders of the HND certificates at upper credit level.
b) Holders of relevant professional qualifications.

**M.Sc. Public Administration**
Prospective candidates for the M.Sc. degree must meet the following requirements:
i) Hold a second class honours degree in Public Administration or Political Science from Godfrey Okoye University or from any other recognized university.
ii) Hold a postgraduate diploma in Public Administration from Godfrey Okoye University or any other recognized university.

**Ph.D Public Administration Programme**
Candidates for the Ph.D. programme should possess the M.Sc. degree in Public Administration or Political Science with a minimum CGPA of 3.50. Admission would be based on the availability of supervisors.
3. Course Duration

PGD Public Administration (PGDPA)
The Post-Graduate Diploma in Public Administration will run for four (4) semesters and a maximum of six (6) semesters for all full time students. For part-time students, the programme will run for six (6) semesters and a maximum of eight (8) semesters.

M.Sc. Public Administration
  Full-time: A minimum of four (4) semesters and a maximum of six (6) semesters.
  Part-time: A minimum of six (6) semesters and a maximum of eight (8) semesters.

Ph.D Public Administration Programme
  The course is offered on a full and part-time basis:
  Full-time: A minimum of six (6) semesters and a maximum of ten (10) semesters.
  Part-time: A minimum of ten (10) semesters and a maximum of twelve (12) semesters.
  For extension beyond the specified maximum period, a special permission of the postgraduate Board shall be required.

4. Programme Requirement (Workload)

PGD Public Administration (PGDPA)
  A minimum of 28 credit units will be required to earn a Post-Graduate Diploma in Public Administration (i.e. 24 credit units of course work and 4 credit units of project report).

M.Sc. Public Administration
  A minimum of 36 credits will be required to earn the M.Sc. degree i.e.:
  I) Nine core courses – 26 credit units
  ii) Two elective courses – (2 credit units each) – 4 credit units
  iii) Thesis – 6 credit units

Ph.D Public Administration Programme
  The Ph.D. programme requires a minimum of 36 credit units made up as follows:
  I) Six core courses (3 credit units each) - 18 credit units
  ii) Three elective courses (2 credit units each) - 6 credit units
  iii) Thesis (12 Units)

5. Examination
A written examination will be required at the end of each semester. For all postgraduate course work, the minimum pass score shall be 50%; continuous assessment shall constitute 30% of the examination for each course. To be in good standing, in the
department, a student must in each semester have a Cumulative Grade Point Average (CGPA) of not less than 3.00. Any student whose Cumulative Grade Point (CGPA) falls below 3.00 at the end of a particular year of study shall be placed on probation for one academic session.

For all postgraduate course-work, the minimum pass score shall be 50% continuous assessment shall constitute 30% of the examination for each course.

Scoring and grading of courses shall be as follows:

6. **Scoring and Grading of Results:**
The Postgraduate diploma courses shall be scored and graded as follows:

<table>
<thead>
<tr>
<th>Marks</th>
<th>Letter Grades</th>
<th>Grade Point</th>
</tr>
</thead>
<tbody>
<tr>
<td>70 and above</td>
<td>A</td>
<td>5</td>
</tr>
<tr>
<td>60 – 69</td>
<td>B</td>
<td>4</td>
</tr>
<tr>
<td>50 – 59</td>
<td>C</td>
<td>3</td>
</tr>
<tr>
<td>Below 50</td>
<td>F</td>
<td>0</td>
</tr>
</tbody>
</table>

7. **Evaluation of Projects**
The Postgraduate Diploma Project Report will be subject to External Examiner's moderation.

**Mode of Study**
Study for the M.Sc. degree will be carried out through course work and research. The research component will be presented in a thesis. For the course work students will be required to sit for examinations lasting 3 hours for each of the courses taken.

**Doctoral Seminar**
Three seminar papers will be required from every doctoral student before the completion of the programme. The three papers, which should be well researched will focus on policy issues (administration, agriculture, planning, public finance, local government, the environment, health etc)

8. **Doctoral Dissertation**
The heart of the doctoral programme is the doctoral dissertation, incorporating the result of an original research designed and implemented by the candidate. Preparation of the dissertation shall be in three stages:

a) The formulation and presentation of a research design in accordance with the approved format, to the faculty postgraduate committee.
b) The implementation of the research project through empirical study and analysis; and the preparation of research report i.e. the dissertation in the approved form under the close supervision of approved supervisors. The research should make a concrete contribution to knowledge.

c) The doctoral defence will be carried out before the Faculty postgraduate committee in the presence of the External Examiner.

A panel of examiners shall be constituted to assess a thesis or dissertation. The examination shall be guided by the following:
i) Postgraduate Diploma Project Report should be subject to moderation by an external examiner.

Panel of Examiners
a) Head of Department (Chief Examiner)
b) External Examiner (Chairman, Panel of Examiners)
c) Supervisors
d) Representative of Postgraduate School
The MPA degree programme offered by the department shall be subject to external oral examination and moderation.

11. Ph.D. Dissertation
Panel of Examiners
a) Head of Department (Chief Examiner)
b) External Examiner (Chairman, Panel of Examiners)
c) Supervisors
d) One other member not below the rank of a senior lecturer with Ph.D. from a related department within the university to be appointed by the Department subject to the approval of the Postgraduate School Board.
## Course Outline

### PGD (Full Time)
#### First Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PUB 701</td>
<td>Introduction to Public Administration</td>
<td>2</td>
</tr>
<tr>
<td>PUB 703</td>
<td>Development Theory and Administration</td>
<td>2</td>
</tr>
<tr>
<td>PUB 705</td>
<td>Administrative Law</td>
<td>2</td>
</tr>
<tr>
<td>PUB 707</td>
<td>Local Government Administration</td>
<td>2</td>
</tr>
<tr>
<td>PUB 709</td>
<td>Public Finance</td>
<td>2</td>
</tr>
<tr>
<td>PUB 711</td>
<td>Comparative Public Administration</td>
<td>2</td>
</tr>
<tr>
<td>PUB 713</td>
<td>Administrative Theory</td>
<td>2</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>14 Units</strong></td>
</tr>
</tbody>
</table>

#### Second Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PUB 702</td>
<td>Public Enterprises Management</td>
<td>2</td>
</tr>
<tr>
<td>PUB 704</td>
<td>Public Policy Analysis</td>
<td>2</td>
</tr>
<tr>
<td>PUB 706</td>
<td>Project Analysis and Implementation</td>
<td>2</td>
</tr>
<tr>
<td>PUB 708</td>
<td>Organizational Behaviour</td>
<td>2</td>
</tr>
<tr>
<td>PUB 710</td>
<td>Public Personnel Administration</td>
<td>2</td>
</tr>
<tr>
<td>PUB 712</td>
<td>Research Methodology</td>
<td>2</td>
</tr>
<tr>
<td>PUB 714</td>
<td>Research Project</td>
<td>4</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>30</strong></td>
</tr>
</tbody>
</table>

### PGD (Part Time)
#### First Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PUB 701</td>
<td>Introduction to Public Administration</td>
<td>2</td>
</tr>
<tr>
<td>PUB 703</td>
<td>Development Theory and Administration</td>
<td>2</td>
</tr>
<tr>
<td>PUB 705</td>
<td>Administrative Law</td>
<td>2</td>
</tr>
<tr>
<td>PUB 707</td>
<td>Local Government Administration</td>
<td>2</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>8</strong></td>
</tr>
</tbody>
</table>

#### Second Semester

| Course Code | Course Title |
|-------------|--------------|-------------|
|             |              | Units       |
### PUB 774 Public Finance 2
### PUB 776 Comparative Public Administration 2
### PUB 778 Administrative Theory 2
### PUB 770 Public Enterprises Management 2
**Total** 8

### Third Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PUB 771</td>
<td>Public Policy Analysis</td>
<td>2</td>
</tr>
<tr>
<td>PUB 773</td>
<td>Project Analysis and Implementation</td>
<td>2</td>
</tr>
<tr>
<td>PUB 775</td>
<td>Organizational Behaviour</td>
<td>2</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>6</strong></td>
</tr>
</tbody>
</table>

### Fourth Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PUB 772</td>
<td>Public Personnel Administration</td>
<td>2</td>
</tr>
<tr>
<td>PUB 774</td>
<td>Research Methodology</td>
<td>2</td>
</tr>
<tr>
<td>PUB 776</td>
<td>Research Project</td>
<td>4</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>30</strong></td>
</tr>
</tbody>
</table>

### M.Sc. Public Administration

#### First Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PUB 801</td>
<td>Public Policy Analysis</td>
<td>3</td>
</tr>
<tr>
<td>PUB 803</td>
<td>Organizational Theory and Behaviour</td>
<td>3</td>
</tr>
<tr>
<td>PUB 805</td>
<td>Public Financial Management</td>
<td>3</td>
</tr>
<tr>
<td>PUB 807</td>
<td>Development Administration</td>
<td>3</td>
</tr>
<tr>
<td>PUB 809</td>
<td>Comparative Public Administration</td>
<td>3</td>
</tr>
<tr>
<td>PUB 811</td>
<td>Performance Management and Management</td>
<td>2</td>
</tr>
<tr>
<td>PUB 813</td>
<td>Public Personnel Management</td>
<td>2</td>
</tr>
<tr>
<td>PUB 815</td>
<td>International Administration</td>
<td>2</td>
</tr>
<tr>
<td>PUB 817</td>
<td>E-Governance in the Public Sector/Electronic Governance and Administration</td>
<td>2</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>23</strong></td>
</tr>
</tbody>
</table>

#### Second Semester
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PUB 802</td>
<td>Administrative Law</td>
<td>3</td>
</tr>
<tr>
<td>PUB 804</td>
<td>Local Government Administration</td>
<td>3</td>
</tr>
<tr>
<td>PUB 806</td>
<td>Research Methodology</td>
<td>3</td>
</tr>
<tr>
<td>PUB 808</td>
<td>Quantitative Methods</td>
<td>3</td>
</tr>
<tr>
<td>PUB 822</td>
<td>Intergovernmental Relations (IGR)</td>
<td>2</td>
</tr>
<tr>
<td>PUB 826</td>
<td>Development Planning, Project Planning and Implementation</td>
<td>2</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>16</strong></td>
</tr>
</tbody>
</table>

**Ph.D Public Administration Programme**

**First Semester**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PUB 901</td>
<td>Advanced Research Methodology</td>
<td>3</td>
</tr>
<tr>
<td>PUB 903</td>
<td>Ph.D. Seminar</td>
<td>3</td>
</tr>
<tr>
<td>PUB 905</td>
<td>Advanced Administrative Theory</td>
<td>3</td>
</tr>
<tr>
<td>PUB 907</td>
<td>Urban Administration</td>
<td>2</td>
</tr>
<tr>
<td>PUB 909</td>
<td>Seminar in Public Financial Management</td>
<td>2</td>
</tr>
<tr>
<td>PUB 911</td>
<td>International Administration</td>
<td>2</td>
</tr>
<tr>
<td>PUB 913</td>
<td>Advanced Local Government Administration</td>
<td>2</td>
</tr>
<tr>
<td>PUB 915</td>
<td>Advanced Administrative Law</td>
<td>2</td>
</tr>
<tr>
<td>PUB 997</td>
<td>Teaching Seminar</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>22</strong></td>
</tr>
</tbody>
</table>

**Second Semester**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PUB 902</td>
<td>Advanced Development Administration Theory</td>
<td>3</td>
</tr>
<tr>
<td>PUB 904</td>
<td>Intergovernmental Relations</td>
<td>3</td>
</tr>
<tr>
<td>PUB 906</td>
<td>Strategic Planning and Management</td>
<td>3</td>
</tr>
<tr>
<td>PUB 912</td>
<td>Seminar in Public Enterprises Management</td>
<td>2</td>
</tr>
<tr>
<td>PUB 914</td>
<td>Seminar in Public Personnel Management</td>
<td>2</td>
</tr>
<tr>
<td>PUB 916</td>
<td>Seminar in Comparative Public Administration</td>
<td>2</td>
</tr>
<tr>
<td>PUB 918</td>
<td>E-Governance in the Public Sector/Electronic Governance and Administration</td>
<td>2</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>20</strong></td>
</tr>
</tbody>
</table>
COURSE DESCRIPTION

PUB 701 Introduction to Public Administration  
2 Units  
The course examines the scope, nature and approaches to the study of public administration. Public and private administration are compared. Nigerian public administration will be examined.

PUB 702 Public Enterprises Management  
2 Units  
The rationale for public enterprises. The course also explores the problem of resource management in public enterprises responsible for producing private and public goods. The various types of public enterprises will be presented. Other topics to be covered include: planning in public enterprises, the dilemma of public enterprises, divestment, privatization and commercialization and the procedures for achieving these, examples will be drawn from successful cases in Africa and beyond.

PUB 703 Development Theory and Administration  
2 Units  
The course examines the concept of development. Development theories will be examined (economic growth and economic development, redistribution with growth basic needs etc). The World Bank and Marxist conceptions of development will be examined. So also will the ideas of decentralization and development and participatory development. The course will also examine approaches to rural development and the role of bureaucracy in third world development. Other issues to be covered include: constraints to effective development, population and development, the concept of human development and strategies for human development.

PUB 705 Administrative Law  
2 Units  
The course examines the concept of administrative law, its growth and characteristics; legal safeguards over administration, judicial review of administration, the Ombudsman. Case studies of legal adjustments of administrative authority, individual liberty, the distinction between public administration and private action, personal liberties of officers and the scope and limits of administrative power.

PUB 707 Local Government Administration  
2 Units  
The nature, scope, significance and development of local government, Evolution of local government system in Nigeria, Management problems in local government, intergovernmental relations, service delivery, local governments as agents of socio-economic and political development.
**PUB 709  Public Finance**  
2 Units
The course examines the distinctive characteristics of government and institutional accounting in federal, state and local governments. Financial management; special methods of accounting and auditing in public agencies and levels of government. The course considers macro/micro allocation of resources, types of budgeting, incrementalism, programme budgeting, zero-based budgeting, bulk budgeting, structural budget, intergovernmental budget control, coordination of taxation.

**PUB 711  Comparative Public Administration**  
2 Units
The course covers the concept of comparison in public administration and examines the context and system of administration in selected developed and developing countries. It examines the policy making roles of public bureaucracies, the relationship between organized interest groups and public agencies.

**PUB 713  Administrative Theory**  
2 Units
The course reviews major theories of administration: classical neo-classical and modern, the structure and organization of governmental administration, administrative communication, theories of decision-making, administrative leadership etc.

**PUB 771  Public Policy Analysis**  
2 Units
The course examines the theoretical framework for policy formulation; it covers the analysis of the processes of policy-making, types of public policy; tools, methods and framework of analysis. Other topics to be covered include: decision models, the nature of public problems; agenda-setting, policy implementation and evaluation.

**PUB 773  Project Analysis and Implementation**  
2 Units
Nature and meaning of project. The distinction between projects and programmes; the planning of projects and application of PERT, project implementation monitoring and evaluation.

**PUB 775  Organizational Behaviour**  
2 Units
The course examines the conceptual models for organizational behaviour, formal and informal organizations, group dynamics, the dynamics of conflict and basic motivational processes. Other topics to be covered include: the motivation to work, leadership and power, job design and appraisal, organizational development.

**PUB 772  Public Personnel Administration**  
2 Units
This course is designed to familiarize the student with the process of effective manpower management. The main focus of the course is recruitment, selection, training,
motivation and labour management relations. Examples will be drawn from both the public and private sectors.

**PUB 774  Research Methodology**  
2 Units  
The objective of the course is to introduce students to scientific inquiry through gathering and analysis of data.

**PUB 776  Research Project**  
4 Units  
The project presents a unique opportunity for the student to specialize in an aspect of administration through a supervised research on an approved topic in public management. The project should not be more than 15,000 words.

**PUB 801  Public Policy Analysis**  
3 Units  
The course is designed to provide the student with the techniques for policy analysis. The course covers also the theoretical framework for policy making, types of public policy, tools, methods and framework of analysis. The concepts of “issues” and “public problems” will be examined as the sources of public policy. Other items to be covered include: decision models, agenda setting and scenarios in policy formulation; the relationship between bureaucrats, technical experts, interest groups and the political executives in the policy process.

**PUB 802  Administrative Law**  
3 Units  
The course examines the growth and characteristics of administrative law; legal safeguard over administrative judicial review of administration, administrative procedure and the Ombudsman. Cases of legal adjustments of administrative authority and individual liberty, the distinction between public administration and private action, personal liability of officers and the scope and limits of administrative power.

**PUB 803  Organizational Theory and Behaviour**  
3 Units  
The course reviews the concept of 'theory' in the context of organizations. Classical, neoclassical and modern theories will be presented. Theories from behavioural science as they help in the understanding of the role of the individual as a member of organizations will be reviewed. Other topics to be covered include organizational socialization, organizational climate and effectiveness, power, authority and group decision making.

**PUB 804  Local Government Administration**  
3 Units  
The nature, scope, significances and development of local government. Evolution of local government system in Nigeria; management problems in local government, relationship between federal and state governments; service delivery, citizen
participation and mobilization.

**PUB 805 Public Financial Management 3 Units**

Issues of major concern in the course include the nature scope and purpose of public finance. The course exposes students to some of the practical ways through which governments strive to generate revenue for financing development expenditure. Other areas to be covered include: theories of state intervention in the economy, public good, allocative/distributive /stabilization functions, intergovernmental fiscal relations, borrowing, debt, taxation, contemporary public budgeting.

**PUB 806 Research Methodology 3 Units**

Consists of all aspects of research design. The course addresses qualitative and quantitative research methods; methods of data collection and analysis. Students will be introduced to the research process: research problem identification, research paper writing and analytical methods employed in the social sciences – multivariate techniques including sampling techniques, simple correlation and other measures of association, analysis of variance, multiple regression etc.

**PUB 807 Development Administration 3 Units**

The origins and meaning of development administration. The meaning of development, Marxist and World Bank conceptions of development, the role of agriculture in development, population and development, development planning, administrative reforms etc.

**PUB 808 Quantitative Methods 3 Units**

Basic tools for empirical analysis in the evaluation of public policy alternatives. Topics include: frequency distribution, descriptive statistics, elementary probability, binomial and normal distribution, analysis of variance, simple and multiple regression.

**PUB 809 Comparative Public Administration 3 Units**

The course covers the concept of comparison in public administration; and examines the context and system of administration in selected developed and developing countries. It examines the policy making roles of public bureaucracies, the relationship between organized interest groups and public agencies.

**PUB 811 Performance Management and Management 2 Units**

The course examines the concept of public sector performance, input per man hour and unit costs. It considers the planning, implementation and evaluation of performance. It presents the human, management and workload factors negating performance and the major catalysts to improvement. The course considers how to measure performance in federal, state and local authorities and their agencies.

**PUB 813 Public Personnel Management 2 Units**

This course is designed to familiarize the student with the process of effective
manpower management. The main focus of the course is recruitment, selection, training, motivation and labour management relations. Examples will be drawn from both public and private sectors.

**PUB 815 International Administration** 2 Units
An examination of the nature and functioning of international institutions, emphasis will be placed on the structure and management of these organizations. The concept of international civil service, administering international organizations, behavioural issues etc. the role of the international Civil Service Commission, decision making in international organizations.

**PUB 817 E-Governance in the Public Sector /Electronic Governance and Administration** 2 Units
This course is designed to familiarize students with the approaches to e-governance. It examines the threefold classification of e-governance; e-governance as government to government, government to business and government to citizens, on-lined service delivery, in health care, education, agriculture, judicial administration, business, rural and urban development and local government administration, state and federal administration and information communication management. Obstacles to e-governance and obstacles for overcoming the barriers will be examined.

**PUB 822 Intergovernmental Relations (IGR)** 2 Units
The principal objectives of the course are to acquaint students with various conceptual models of federalism which help to explain the nature and working of intergovernmental systems, to examine the forces of change and the factors which preserve federal systems, to understand the dynamics of non-governmental relations, types of conflict and cooperation between various levels of government, to explore the challenges of federal systems especially the problem of public finance, ethnicity, civil rights and urban governance.

**PUB 826 Development Planning, Project Planning and Implementation** 2 Units
This course examines the concept, models and types of plan; theories of planning, politics of planning, programme planning and objectives and plan implementation. It further considers development plan experience in Nigeria, the procedure for planning and its implementation, and the essence of planning.

**PUB 901 Advanced Research Methodology** 3 Units
Detailed discussion of methods and tools of social research and investigation. Application of these in the different dimensions of public administration. Discussion of the various stages of research and thesis writing, scientific inquiry and alternative modes of social investigation; strategies of investigation, research designs; models of data analysis, report organization and presentation; problems of utilization and application of research findings.
PUB 902  Advanced Development Administration Theory  3 Units
The course will examine the origins and meaning of development administration. Economic growth and development will be discussed. People and institutions in development. Marxist model of development, the World Bank and development, decentralization for development, application of development processes to rural areas, political and administrative constraints, population and development, environment and sustainable development.

PUB 903  Ph.D. Seminar  3 Units
The three seminar papers to be presented will focus on public policy issues.

PUB 904  Intergovernmental Relations  3 Units
Intergovernmental relations as a theme in public administration; federalism and intergovernmental relations; issues in the management of intergovernmental relations, constitutional, legal, political economic and personnel issues. Institutional mechanisms for managing intergovernmental relations, in a comparative perspective with special reference to the experience of countries like the USA, India, Brazil and Canada.

PUB 905  Advanced Administrative Theory  3 Units
Theoretical analysis and discussion of Fredrick W. Taylor's Scientific Management, Elton Mayo and his Harvard colleagues, Field Theory and Group membership, motivation in organizations towards synthesis and redirection. Theories of leadership, information processing and decision making in organizations; power and resource allocation in organizations.

PUB 906  Strategic Planning and Management  3 Units
Environmental turbulence and public sector organizations; strategic planning as a means for managing the turbulence. Meaning and benefits of strategic planning. The Brysonian model for public sector strategic planning, key steps in the model i.e. agreeing on a strategic planning process, identifying organizational mandates, clarifying organizational mission and values, assessing the external environment; assessing the internal environment, identifying the strategic issues facing the organization, formulating strategies to manage the issues, establishing organization vision for the future.

PUB 907  Urban Administration  2 Units
Examination of urban administration systems. Issues to be examined include: urban population problems, policy formulation and implementation in urban administration; environmental control; social services problems; housing, education, health care, water supply; relationship between urban government and other units of government.

PUB 909  Seminar in Public Financial Management  2 Units
This course treats the distinctive characteristics of government and institutional accounting; federal state and local organization of financial management. The course
considers macro/micro allocation of resources, types of budgeting; programme
budgeting, zero-based budgeting, bulk budgeting etc.

**PUB 911 International Administration**  
2 Units  
Nature and role of international organization and institutions. The concept of international civil service, administering international organizations; structures, recruitment, career patterns and behavioural issues. Decision making in international organizations, international administrative law: management of multilateral and bilateral cooperation, regional cooperation among developing countries, cases based on the administration of the United Nations.

**PUB 912 Seminar in Public Enterprises Management**  
2 Units  
The study of the nature of public enterprises; origins and classification; survey of the major issues in the management of public enterprises, financial management, staffing, control and accountability and relation with other public services; private enterprises and the public.

**PUB 913 Advanced Local Government Administration**  
2 Units  
The course will examine the philosophy, nature, scope, significance and development of local government. Evolution of local government in Nigeria, problems of local government service delivery, relationship with governments at other levels will also be examined as well as the issues of grassroots mobilization and participation.

**PUB 914 Seminar in Public Personnel Management**  
2 Units  
The personnel function; recruitment selection, promotion, motivation and discipline. Illustrations will be drawn from the public and private sectors in Nigeria and selected foreign countries. The course will deal with applied personnel management techniques and skills such as personnel grading, auditing, manpower planning, job analysis; training programmes; comparative personnel policies.

**PUB 915 Advanced Administrative Law**  
2 Units  
The course examines the growth and characteristics of administrative law, legal safeguard over administration, problems of executive power, judicial review of administrative action; administrative adjudication and individual liberty. The distinction between public and private action, personal liability of officers and scope and limit of administrative power.

**PUB 916 Seminar in Comparative Public Administration**  
2 Units  
Issues in comparison, administration in the developed nations; general characteristics of classical administrative systems, variations in administrative systems, administration in
the “Civic Culture”, Great Britain and the USA, administration in the developing nations.

**PUB 918 E-Governance in the Public Sector/Electronic Governance and Administration 2 Units**
Approaches to E-governance, the five stages of e-governance, application of internet facilities in the planning, implementation and evaluation of service delivery; classification of e-governance, e-governance as government to government, government to business and government to citizens. On-line service delivery in health care, education, agriculture judicial administration, business, rural and urban development and local government, federal and state administration and information communication management. Obstacles to e-governance and strategies for overcoming the barriers.

**PUB 997 Teaching Seminar 3 Units**
Supervised college teaching including techniques, course and curriculum design, evaluation. Students will prepare and present lectures with direct observations and videotaping for discussion.

**PUBLIC ADMINISTRATION PROGRAMME’S ACADEMIC STAFF**

<table>
<thead>
<tr>
<th>S/N</th>
<th>NAMES OF ACADEMIC STAFF</th>
<th>QUALIFICATION</th>
<th>DESIGNATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Prof. Festus.C. Nze</td>
<td>B.A, M.A</td>
<td>Professor</td>
</tr>
<tr>
<td>2.</td>
<td>Prof. Festus.C. Eze</td>
<td>B.A, M.A., Ph.D</td>
<td>Professor</td>
</tr>
<tr>
<td>3.</td>
<td>Prof. Johnny Eluka</td>
<td>B.Sc., MBA, Ph.D</td>
<td>Professor</td>
</tr>
<tr>
<td>4.</td>
<td>Assoc. Prof. R.C. Nwokedi</td>
<td>B.A., Ph.D</td>
<td>Assoc. Professor</td>
</tr>
<tr>
<td>5.</td>
<td>Dr. Nick A. Obodo</td>
<td>LL.B, PGD, M.Sc., Ph.D</td>
<td>Assoc. Professor</td>
</tr>
<tr>
<td>6.</td>
<td>Dr. Nick N. Igwe</td>
<td>B. Tech, PGD, MBA, M.Sc., Ph.D</td>
<td>Assoc. Professor HoD</td>
</tr>
<tr>
<td>7.</td>
<td>Dr. S.N. Udeh</td>
<td>B.Sc., MBA, M.Sc. Ph.D</td>
<td>Senior Lecturer</td>
</tr>
<tr>
<td>8.</td>
<td>Dr. Anthony Idede</td>
<td>B.Sc., MPA, M.Sc. Ph.D</td>
<td>Lecturer I</td>
</tr>
</tbody>
</table>
DEPARTMENT OF ECONOMICS
POSTGRADUATE PROGRAMMES IN ECONOMICS

PGD, M.Sc. and Ph.D PROGRAMMES

1. Introduction
In keeping with the goals of Godfrey Okoye University, the Postgraduate programmes of the department of Economics are designed to promote advanced training and research in Economics. The aim of the programme is to continuously produce professional economists that are well armed to play positive roles towards the social and economic advancement of Nigeria, Africa and the world at large. To satisfy national and international interests the postgraduate programmes of the department cover the following areas: Economic Theory, Economic Development & Planning, International Economics, Monetary Economics, Labour Economics, Industrial Organizations, Quantitative Economics, Resources and Energy Economics, Public Sector Economics etc.

2. Philosophy
The philosophy of the Post Graduate Programmes in Economics in Godfrey Okoye University is built on intellectual leadership and the preparedness to confront modern economic challenges. Hence each programme focuses on providing practical training geared towards the effective development of skills for applying economic principles and models in solving economic problems of Nigeria at national, state and local levels.

3. Objectives
The objectives of the Post Graduate programmes in Economics shall flow from the general objectives of the Faculty of Management and Social Sciences and award of qualifications of the programmes shall be governed by the University and Faculty postgraduate studies regulations. The main objectives of the programmes are to develop highly competent and versatile professional economists through the provision of relevant academic and professional courses which are required in order to meet the development challenges of Nigerian economy in the context of globalization. Specifically, the programmes are designed to rigorously train competent personnel for academic career and groom middle and top management personnel in the areas of energy and petroleum, industry, banking and finance.

4. Degree Nomenclature
The Post Graduate Diploma programme in Economics (PGD) is organized to give candidates that had less than 2:2, but not below 3rd class honours degree from an approved university opportunity to go for Master's degree programme in Economics.

The academic Master's degree programme which confers a degree of Masters of Science (M.Sc.) links directly to Doctor of Philosophy Degree (PhD) programmes and which provides the entry points for academic and research career in Economics.
Thus, the Masters of Science Degree Programme (M.Sc) and the Doctor of Philosophy Degree (Ph.D) Programmes constitute the core of postgraduate programmes in Economics.

5. **Admission Requirements**

5.1 **Postgraduate Diploma (PGD)**

The criteria for admission into any Post Graduate Diploma programme in Economics will be as follows:

- Candidates must have five credit passes including English and Mathematics at the 'O' level
- Candidates with Bachelors degree of not less than 3rd class honours degree from an approved University.
- Candidates with HND and/or professional qualifications cognate to Economics from a recognized institution with not less than upper credit.

**Duration of the programme**

A full-time PGD programme shall run for a minimum of two (2) semesters and a maximum of four (4) semesters. The part-time programme shall run for a minimum of four (4) and a maximum of six (6) semesters.

**Programme Evaluation Procedure and Requirements for Graduation**

A candidate must have fulfilled the following conditions to be awarded a Postgraduate Diploma in Economics.

i) Registered and passed a minimum of 30 credit units of both compulsory and elective courses as follows:

- Compulsory courses 15 units
- Electives 9 units
- Project 6 units
Total 30 Units

ii) Carry out and submit research project relevant to the area of specialization based on an approved topic by the Department and the Board of School of Postgraduate Studies within the stipulated period for graduation.

**Courses shall include:**

a. Advanced Principles of Economics 3 Units
b. Computer Application 3 Units
c. Mathematics for Economists 3 Units
d. 1 Core Course Reflecting the Orientation of the PGD 3 Units
e. Seminars 3 Units
f. Elective Courses reflecting students area of specialization 9 units
g. Project 6 Units
Total 30 Units

Grading and Pass Mark
The minimum pass mark in any course shall be 50%.

External Examiner System
The external examiner system shall be used at the end of the Postgraduate Diploma programme to assess the courses and projects.

5.2 Master of Science Degree Programme (Msc.)

Admission Requirements
i) Candidates must satisfy the matriculation requirements of the University including credit passes in English Language and Mathematics.
ii) Candidates with Bachelor's degree in Economics from an approved university whose Economics programme is accredited by the NUC.
iii) Candidates with a minimum of second class lower degree and a CGPA of 3.00 on a five point scale.
iv) Candidates with a Postgraduate Diploma degree from a cognate discipline awarded by a recognized institution with not less than an upper credit.

Duration of Programme
a) A full time Master's Programmes shall run for a minimum of four (4) semesters and a maximum of six (6) semesters.
b) Part-time master's programmes shall run for a minimum of six (6) semesters and maximum of eight (8) semesters.
c) For extension beyond the specified maximum period, permission of the School of postgraduate studies shall be required.

Programme Evaluation Procedure and Requirement for Graduation for M.Sc.
To be awarded a Master of Science Degree in Economics, a candidate must register and pass a minimum of 33 credit units.

<table>
<thead>
<tr>
<th>Stress Areas</th>
<th>Stress No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Advanced Economic Theory</td>
<td>0</td>
</tr>
<tr>
<td>Economic Development and Planning</td>
<td>1</td>
</tr>
<tr>
<td>Monetary Economics</td>
<td>2</td>
</tr>
<tr>
<td>International Economics</td>
<td>3</td>
</tr>
<tr>
<td>Public Sector Economics</td>
<td>4</td>
</tr>
<tr>
<td>Labour and Industrial Economics</td>
<td>5</td>
</tr>
<tr>
<td>Health Economics</td>
<td>6</td>
</tr>
<tr>
<td>Quantitative Economics - Econometrics</td>
<td>7</td>
</tr>
</tbody>
</table>
5.3 **Doctorate (PhD) Degree Programme in Economics**

The key objective of the PhD Programme is to train and develop highly professional economists, preparing and building up their independent intellectual capacity for sustainable and creative useful careers in teaching and research in higher institutions of learning, research and administration in research institutes, government, non-governmental/national and international organizations, business organizations and specialized consultancy services.

The PhD Programme shall consist of three components, namely; a course work, thesis and oral defense. The course work would be for one academic session, and shall be taken only on a full-time basis. No candidate shall be accepted as a part-time PhD student who has not successfully completed the course work. Where appropriate, all courses failed must be repeated and passed. The pass mark for each course taken shall be 50 per cent.

Each candidate shall submit appropriate number of bound copies of a supervised thesis as the final requirement for the award of the PhD degree. The supervised thesis must be based on original research, which must be orally defended successfully before an appropriate panel of examiners. The thesis must represent a specific original contribution to economic knowledge. Prior to submission, each PhD student must give at least two seminars.

**Programme Evaluation Procedure and Requirements for Graduation for Ph.D**

Doctorate (PhD) Programmes shall primarily be by course work, (12 units) seminars (6 units). A doctoral (PhD) Thesis of 12 credit units must be defended (before a panel of examiners of professional status. The external examiner must be a senior lecturer and above with a PhD in the discipline.

**Admission Requirements**

All candidates must:

I) Possess the university minimum requirement for a B.Sc. degree in Economics.

ii) Have obtained a Bachelor's degree from an approved university whose Economics programme is accredited by NUC.
iii) Have a minimum of a Second Class Lower degree in the discipline.
iv) Hold a Master's degree in Economics with a CGPA of at least 4.0 on a 5.0 point scale.
v) Submit a brief satisfactory statement of intended area of research.

**Duration of the Programme**
The duration of the PhD Programme shall be:
Full-time – A minimum of six (6) semesters and a maximum of twelve (12) semesters.
Part-time- A minimum of eight (8) semesters and a maximum of ten (10) semesters.

<table>
<thead>
<tr>
<th>Stress Areas</th>
<th>Stress</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Advanced Economic Theory</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>Economic Development and Planning</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Monetary Economics</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>International Economics</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Public Sector Economics</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>Labour and Industrial Economics</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>Health Economics</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Quantitative Economics - Econometrics</td>
<td>7</td>
<td></td>
</tr>
<tr>
<td>Energy and Petroleum Economics</td>
<td>8</td>
<td></td>
</tr>
<tr>
<td>Information Economics</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>Environmental and Resource Economics</td>
<td>10</td>
<td></td>
</tr>
</tbody>
</table>
## Course Outline

### Postgraduate Diploma

#### FIRST SEMESTER

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECO 701</td>
<td>Microeconomic Theory and Policy I</td>
<td>2</td>
</tr>
<tr>
<td>ECO 703</td>
<td>Macroeconomic Theory and Policy II</td>
<td>2</td>
</tr>
<tr>
<td>ECO 705</td>
<td>Research Methods I</td>
<td>2</td>
</tr>
<tr>
<td>ECO 707</td>
<td>Econometrics I</td>
<td>2</td>
</tr>
<tr>
<td>Elective</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>Elective</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>Elective</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>14</strong></td>
</tr>
</tbody>
</table>

#### SECOND SEMESTER

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECO 702</td>
<td>Microeconomic Theory and Policy II</td>
<td>2</td>
</tr>
<tr>
<td>ECO 704</td>
<td>Macroeconomic Theory and Policy II</td>
<td>2</td>
</tr>
<tr>
<td>ECO 706</td>
<td>Research Methods II</td>
<td>2</td>
</tr>
<tr>
<td>ECO 708</td>
<td>Econometrics II</td>
<td>2</td>
</tr>
<tr>
<td>ECO 782</td>
<td>Seminar</td>
<td>3</td>
</tr>
<tr>
<td>ECO 792</td>
<td>Project</td>
<td></td>
</tr>
<tr>
<td>Elective</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>Elective</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>21</strong></td>
</tr>
</tbody>
</table>

### ELECTIVES

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECO 711</td>
<td>Problems and Policies of Development</td>
<td>2</td>
</tr>
<tr>
<td>ECO 721</td>
<td>Money and Banking</td>
<td>2</td>
</tr>
<tr>
<td>ECO 732</td>
<td>International Economics</td>
<td>2</td>
</tr>
<tr>
<td>ECO 741</td>
<td>Taxation and Fiscal Policy</td>
<td>2</td>
</tr>
<tr>
<td>ECO 752</td>
<td>Industrial Relation and Personnel Management</td>
<td>2</td>
</tr>
<tr>
<td>ECO 754</td>
<td>Project Evaluation</td>
<td>2</td>
</tr>
<tr>
<td>ECO 761</td>
<td>Demography</td>
<td>2</td>
</tr>
<tr>
<td>ECO 771</td>
<td>Mathematical Economics I</td>
<td>2</td>
</tr>
<tr>
<td>ECO 772</td>
<td>Mathematical Economics II</td>
<td>2</td>
</tr>
</tbody>
</table>
### M.Sc.
#### FIRST SEMESTER

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECO 801</td>
<td>Microeconomics I</td>
<td>3</td>
</tr>
<tr>
<td>ECO 803</td>
<td>Macroeconomics I</td>
<td>3</td>
</tr>
<tr>
<td>ECO 805</td>
<td>Mathematical Economics</td>
<td>3</td>
</tr>
<tr>
<td>ECO 807</td>
<td>Qualitative Methods</td>
<td>3</td>
</tr>
<tr>
<td>ECO 891</td>
<td>Quantitative Research Methods</td>
<td>3</td>
</tr>
<tr>
<td>Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td>18</td>
</tr>
</tbody>
</table>

#### SECOND SEMESTER

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECO 802</td>
<td>Microeconomics II</td>
<td>3</td>
</tr>
<tr>
<td>ECO 804</td>
<td>Macroeconomics II</td>
<td>3</td>
</tr>
<tr>
<td>ECO 806</td>
<td>Advanced Econometrics</td>
<td>3</td>
</tr>
<tr>
<td>ECO 808</td>
<td>Issues in Entrepreneurship</td>
<td>3</td>
</tr>
<tr>
<td>ECO 892</td>
<td>Seminar</td>
<td>3</td>
</tr>
<tr>
<td>ECO 894</td>
<td>Thesis</td>
<td>6</td>
</tr>
<tr>
<td>Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td>24</td>
</tr>
</tbody>
</table>

#### ELECTIVES

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECO 809</td>
<td>Health Economics</td>
<td>3</td>
</tr>
<tr>
<td>ECO 811</td>
<td>Economic Development and Planning</td>
<td>3</td>
</tr>
<tr>
<td>ECO 821</td>
<td>Money and Banking</td>
<td>3</td>
</tr>
<tr>
<td>ECO 831</td>
<td>International Economics</td>
<td>3</td>
</tr>
<tr>
<td>ECO 841</td>
<td>Public Finance and Fiscal Policy</td>
<td>3</td>
</tr>
<tr>
<td>ECO 851</td>
<td>Labour Economics and Industrial Relations</td>
<td>3</td>
</tr>
<tr>
<td>ECO 852</td>
<td>Petroleum Economics</td>
<td>3</td>
</tr>
<tr>
<td>ECO 853</td>
<td>Project Evaluation</td>
<td>3</td>
</tr>
<tr>
<td>ECO 861</td>
<td>Demography</td>
<td>3</td>
</tr>
<tr>
<td>ECO 872</td>
<td>Environmental Economics</td>
<td>3</td>
</tr>
</tbody>
</table>

#### PhD

<table>
<thead>
<tr>
<th>Course No</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECO 901</td>
<td>Advanced Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>ECO 902</td>
<td>Advanced Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>ECO 911</td>
<td>Research Methodology</td>
<td>6</td>
</tr>
<tr>
<td>ECO 991</td>
<td>Seminars</td>
<td>6</td>
</tr>
<tr>
<td>ECO 992</td>
<td>Thesis</td>
<td>12</td>
</tr>
<tr>
<td>ECO 997</td>
<td>Teaching Seminar</td>
<td>3</td>
</tr>
</tbody>
</table>
COURSE DESCRIPTION

ECO 701  Microeconomics Theory and Policy I  2 Units
Fundamental quantitative relationship. General equilibrium; disequilibrium; dynamic equilibrium analysis. Production function: duopoly, bilateral monopoly and monopsony.

ECO 702  Microeconomic Theory and Policy II  2 Units
Theories of determination of wages, rent interest and profit. Optimization in theories of consumption and production. Economic efficiency, and equity, externalities; social and private costs. Pareto optimum; social welfare functions. Policy applications of microeconomic theories.

ECO 703  Macroeconomic Theory and Policy  2 Units
Revision of income determination from simple closed economy to four sector economy. Detailed theories of consumption and investment functions. The classical and Keynesian theories of employment and output. Capital theory of inflation. Business cycles and forecasting. The relation of these issues to leading problems in policy.

ECO 704  Macroeconomic Theory and Policy II  2 Units
The rationale for the existence of the public sector, formulation of national economic policy. Planning principles and analysis. Policy objectives, instruments and implementation. Balance of payments equilibrium and disequilibrium; balance of payment adjustment mechanism; devaluation, contemporary issues in public in Nigeria.

ECO 706  Research Methods I  2 Units
The objective of this course is to equip students with adequate knowledge and skill in the following aspects of Research methodology the philosophy of economics research; identification of researchable problems and development of hypotheses or research questions. The course will also involve a detailed treatment of the methods and problems of collecting relevant research data, the format for presenting research results (i.e. from designing the table of contents to footnoting; referencing bibliography). Also to be covered are the various methods of establishing relationships between economic variables; basic elements of model building in economics; application of multivariate analysis, correlation and discriminate analysis; tests of causality (e.g. Sims-Granger tests, (Chow tests and sensitivity and stability of economic models) as well as analysis of variance, Chi-square tests, etc. students will be required to write-seminar paper in this course.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECO 706</td>
<td>Research Methods II</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Sampling and sampling distributions; estimation; tests of hypothesis; extension of Regression (simple and multiple) and all the tests of significance; basic sampling and surveys; growth survey extension of the analysis of variance; chi-square etc.</td>
<td></td>
</tr>
<tr>
<td>ECO 707</td>
<td>Econometrics I</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Definition and scope of econometrics, stages of econometric researches. Regression analysis (simple and multiple) and the statistical tests of significance. Econometrics problems (heteroscedasticity, multi-collinearity): their causes, detection, consequences and correction. Basic ideas of the identification problems, dummy variables, and distributed lags. Simultaneous equation methods (2, SLS, 3 SLS, etc.).</td>
<td></td>
</tr>
<tr>
<td>ECO 708</td>
<td>Econometrics II</td>
<td>2</td>
</tr>
<tr>
<td>ECO 711</td>
<td>Problems and Policies of Development</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Capital formation: savings/capital accumulation. Various income hypothesis: implications for policy/saving; Institutional problems: tenure: structural rigidities. Leadership style: poverty and income distribution, inequalities of power, prestige, status, political and economic participation in decision-making: population problem: problems of food scarcity, housing health educational systems. Policy options to deal with these problems should be discussed.</td>
<td></td>
</tr>
<tr>
<td>ECO 721</td>
<td>Money and Banking</td>
<td>2</td>
</tr>
<tr>
<td>ECO 741</td>
<td>Taxation and Fiscal Policy</td>
<td>2</td>
</tr>
</tbody>
</table>
|             | Theories of taxation; incidence and burden of taxation, welfare costs of taxation, negative income tax, import duties, excise and sales taxes. Revenue and expenditures. Elements of fiscal policy, fiscal federalism, debt financing versus
tax financing. Public expenditures – determinants and consequences. Government budgets and the budget cycle, budgeting and control; bureaucracies, legislatures and the general public. Nigerian system of income tax administration; structure and procedure, collection with references to all necessary legislatures; distinction between the taxation of income and taxation of capital; personal incomes tax; the law and practice of income tax relating to individuals, exemptions, settlements. Company tax: the principles and scope of company tax, fiscal policy with reference to stabilization, social services, economics development and fiscal federalism; financing the Nigeria federalism.

ECO 761 Demography  2 Units
Definition of terms, resources of data. Fertility measures, trend; family planning. Mortality measures, trends, life; migration: measures, internal and international migration. Population composition, age, sex, and economic composition. Population growth and economic development, positive and negative effects.

ECO 771 Mathematical Economics I  2 Units
Linear Algebra: Detailed treatment of vectors and Matrices, and applications to economic problems. Basic treatment of linear programming: input-output analysis; game theory. Extension of the ideas of difference and differential equations and their application in economics (consumer behavior, demand and supply analysis, growth theory, etc.)

ECO 772 Mathematical Economics II  2 Units
Basic element of economic model building: various methods of establishing relationships between economic variables. Applications of multivariate analysis: canonical correlations, principal components, discriminate analysis. Other tools for establishing relationship: test of causality (Sims-Granger tests), chow test, sensitivity and stability of economic models. Applications of variance, chi-square, etc to research. Seminar paper.

ECO 752 Industrial Organization and Personnel Management  2 Units
Managerial functions: planning, organizing, leading, and controlling; theories of organization: the classical approach, the human relations and behavior science approaches, the system approach; and contingency theories. Organizational structure in relation to strategy, environment and technology. The design of organizations. Effectiveness and efficiency in the management of non-profit and public service institutions. The individual and the organization: quality of work life, motivation and performance. Personal Management: Human resources Utilization in Organization. Finance: Framework for corporate financial decision, evaluation of new capital investments, capital structure, impediments to financial management in...

ECO 754    Project Evaluation    2 Units
The project concept; project cycle; Financial analysis and investment criteria for industrial projects; economic analysis of projects (social cost-benefit studies) shadow pricing, distribution impacts; special topics e.g. risk and uncertainty, project management with particular emphasis on implementation, monitoring and evaluation.

ECO 772    Mathematical Economics II    2 Units
Difference and differential equations, stability prosperities of dynamics systems, optimization over time, the calculus of variation, dynamics programming, optimal control and maximum principles; the application of dynamics optimization techniques to models of capital accumulation and economic growth. Introduction to stochastic models.

ECO 801    Microeconomics I    3 Units
Consumption and production, choice theory structure, theory of the firm, linear programming and applications, theory of distribution, social welfare function, cost-benefit analysis, externalities, demand and supply of factors of production, capital theory.

ECO 802    Microeconomics II    3 Units
Continuation of Eco 801

ECO 803    Macroeconomics    3 Units
Concepts of income and output, macroeconomic aggregates, consumption and investment functions, critical analysis of Keynesian theory, monetarist and post-Keynesian theories, the demand for, and supply of money and their impact on effectiveness of monetary and fiscal policies, inflation, growth theory, new direction of macroeconomic research to suit Nigerian conditions.

ECO 804    Macro Economics    3 Units
Continuation of Eco 803

ECO 805    Mathematical Economics    3 Units
Concept of Mathematical Economics, economic models, components of mathematical models, types of functions of two or more independent variables, equilibrium analysis in economics, linear models, matrix algebra, concept of derivatives and economic application, optimization; equilibrium analysis, constrained optimization; Lagrange-multiplier method, Cobb-Douglas function as a special case of the CES function, integrals and some economic applications, differential equations, simultaneous equations, dynamic models, linear programming; simples method, input-output analysis and linear programming; non-linear programming, game theory.

**ECO 806 Advanced Econometrics 3 Units**
Microeconometrics: Introduction to Cross-sectional and panel data analysis; panel data models; first difference estimation; fixed effect and random effects models; limited dependent variable models: probit, logit, bivariate probit and multinomial logit models, poison; method of simulated maximum likelihood; model selection: two-step estimator and Heckman model selection. Introduction to survey data analysis. Time Series/Macroeconometrics: Time series econometrics: Testing for stationarity; multivariate and single equation cointegration analysis and the estimation of error correction models; Structural breaks; VAR Models; ARIMA and GARCH models; Introduction to macroeconometric model building; Introduction to forecasting and simulation.

**ECO 807 Qualitative Methods 3 Units**
This course provides a detailed understanding of the role and application of qualitative methods within social science research. It also focuses on the issues which arise in the analysis of qualitative data and introduce the students to computer-assisted methods of qualitative data analysis.

**ECO 808 Issues in Entrepreneurship 3 Units**
The entrepreneur as a factor of production; basic elements in entrepreneurship development; the role of the entrepreneurship in economic development (empirical evidence from journal papers will form examples). The factors militating against entrepreneurship development in Nigeria: regulation, infrastructure, access to credit, security, etc. government efforts to encourage entrepreneurship development in Nigeria: building capacity, training, startup capital, self-employment as a policy, etc. Developing entrepreneurial capacity in Nigeria: feasibility studies, market analysis, locational advantage, cost of doing business analysis, etc. Analysis of enterprise survey.

**ECO 809 Health Economics 3 Units**
Application of economic models of supply and demand to the health care sector. Problems of uncertainty, informational asymmetry and issues of market failure.

**ECO 811 Economic Development and Planning**  
3 Units  
Advanced theories of economic development, agents of and requirements for development and implications for policy, impact of industrial, commercial and agricultural policies on import substitution, export promotion, foreign aid, demonstration effects, the choice of planning techniques in national development plans; consideration and analysis of a number of planning models used in particular in Nigeria and other Less-Developed countries; planning problems involving human resources demand and supply, regional development, foreign trade, monetary and fiscal policies; the Harrod-Domar model, the input-output technique and other aggregate models. The planning problem. The planning process. Quantitative planning techniques, investment choice, strategies and consistency test. Balance in sectoral policies. Efficiency in resource allocation, resource mobilization, human resources planning. Plan implementation. Planning experience in Nigeria. Planning experience in selected developing countries.

**ECO 821 Money and Banking**  
3 Units  
Role of money in the economy, money and net wealth, the demand for and supply of money under equilibrium and disequilibrium conditions, the monetary approach to the balance of payments, high powered money, monetary policy, international monetary police and standards.

**ECO 831 International Economics**  
3 Units  
Trade theory; advanced treatment of the theories relating to factor proportions and comparative advantage, statics of trade with respect to changes in tastes, factors endowments; technology, etc. alternative theories of trade and growth in developing countries; commercial policy, the free trade doctrine and arguments for restricted trade, theories of tariffs, quota and other trade restrictive devices, price discrimination and cartels, regional economic integration, international trade institutions, and international economic co-operations.

**ECO 841 Public Finance and Fiscal Policy**  
3 Units  
Theory of public finance; the nature of public sector. Theory of public revenue and expenditure; determinants and consequences of public expenditure; instruments of
taxation and fiscal policy; public debt. Federation and fiscal policy; a general discussion of fiscal policy in a federal structure, comparing the situation in Nigeria with that of some Federal Governments, Australia, Canada etc; current procedure and exercise in revenue allocation in Nigeria; the politics of collective choice; incidence of market failure in the classical sense; government subsidy.

**ECO 851 Labour Economics and Industrial Relations** 3 Units
Review of basic labour market theory; theories of individual and household labour supply; human capital theory; wages and wage structure information in the labour market; the economics of unemployment; efficiency, segmentation and flexibility, the relationship between labour market/processes and economic development; theories of trade unionism; theory of industrial relations, institutional aspects of the labour market, the enterprise, management and employers' associations; aims, objectives and government of trade unions, industrial conflicts; collective bargaining, current issues in industrial relations, industrial relations in Nigeria and other countries.

**ECO 852 Petroleum Economics** 3 Units
Inter-locking problems of ownership, transition from concession to contact system; changed ownership and its implications; production and marketing of oil products, demand and distribution of petroleum products in Nigeria; rationale of uniform pricing and retailing of petroleum products; contribution of petroleum to Nigeria's economy and its impact on agricultural policy; oil crisis and inflation, oil money flows and international financial system; international oil companies and the future of the OPEC.

**ECO 853 Project Evaluation** 3 Units
The project concepts; cycle; financial analysis and investment criteria for industrial projects; economic analysis of projects (social cost-benefit studies), shadow pricing, distribution impacts, special topics e.g. risk and uncertainty, project analysis and national economic planning, project management with particular emphasis on implementation, monitoring and evaluation.

**ECO 861 Demography** 3 Units
Definition of terms, resources of data. Fertility measures, trend; family planning. Mortality measures, trends, life; migration: measures, internal and international migration. Population composition, age, sex, and economic composition. Population growth and economic development, positive and negative effects.

**ECO 872 Environmental Economics** 3 Units
Definition, the economy and the environment. Analytical tools- Benefits and Costs, supply and demand, Economic efficiency and markets and the economics of

ECO 891   Quantitative Research Methods      3 Units
The design of economic research project: statement of the research problem; research thesis; essence and techniques of literature review; methodology; survey method, historical method, econometric method, experimental designs, etc; estimation, diagnostic tests, and evaluation of hypothesis; inferences and conclusions. Basic issues in interpreting micro and microeconomic data; the base year, scaling of data, summary indicators, nominal and real magnitudes; implication of missing observations, small samples, poor quality of data, and inconsistencies of data for economic analysis and inference; procedures for managing data; interpolations, sampling and sampling designs (design and validation of research instrument): sample selection procedure and techniques of questionnaire design/ administration; procedure for data collation (scoring and coding for computer analysis), Random variables and probability distributions.

ECO 894       Thesis                          6 Units
Students are required to complete a major research thesis in their area of specialization.

ECO 901   Advanced Microeconomics      3 Units
Some selected advanced topics in Microeconomics.

ECO 902   Advanced Macroeconomics      3 Units
Some selected advanced topics in Macroeconomics.

ECO 911   Research Methodology        6 Units
Research Methodology covering both primary data econometric research and secondary data econometric research.

ECO 992   Dissertation               6 Units
Students are required to complete a major research work in their area of specialization.

ECO 997   Teaching Seminar          3 Units
Supervised university teaching including techniques, course and curriculum design, and evaluation. Students will prepare and present lectures with direct observations and videotaping for discussion.
## LIST OF ACADEMIC STAFF

<table>
<thead>
<tr>
<th>S/N</th>
<th>STAFF</th>
<th>QUALIFICATION</th>
<th>SPECIALIZATION</th>
<th>DESIGNATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Prof. Ferdinand Nwafor</td>
<td>PhD, MBA, B.Sc.</td>
<td>Macro Economics, Financial Economics</td>
<td>Professor HoD</td>
</tr>
<tr>
<td>2.</td>
<td>Prof. Felix E. Onah</td>
<td>PhD, MA, B.Sc.</td>
<td>International Economics</td>
<td>Professor (PT)</td>
</tr>
<tr>
<td>3.</td>
<td>Prof. C. J. C. Akubuilo</td>
<td>PhD, M.Sc., M.Ed., B.Sc.</td>
<td>Agriculture Economics</td>
<td>Professor (PT)</td>
</tr>
<tr>
<td>5.</td>
<td>Dr. Pius Chukwukelu Eze</td>
<td>PhD, M.Sc., BSEE</td>
<td>Public Sector Economics</td>
<td>Senior Lecturer</td>
</tr>
<tr>
<td>6.</td>
<td>Dr. Ndidiamaaka Ozofor</td>
<td>PhD, M.Ed. M.Sc.</td>
<td>Mathematics</td>
<td>Senior Lecturer</td>
</tr>
<tr>
<td>7.</td>
<td>Dr. Romanus Ukwueze E.</td>
<td>PhD, M.Sc., B.Sc.</td>
<td>Development Economics</td>
<td>Senior Lecturer (PT)</td>
</tr>
<tr>
<td>8.</td>
<td>Dr. Idenyi Stephen Odo</td>
<td>PhD, M.Sc., B.Sc.</td>
<td>Monetary Economics</td>
<td>Lecturer I</td>
</tr>
</tbody>
</table>
DEPARTMENT OF POLITICAL SCIENCE AND INTERNATIONAL RELATIONS POSTGRADUATE PROGRAMMES IN INTERNATIONAL RELATIONS

Introduction
The postgraduate programmes in International Relations is to turn out human resources with sufficient skills and knowledge in International Relations so as to be able to investigate and analyse international problems with the aim of enhancing international peace and security and contributing to the development of national human resources.

Philosophy
The Philosophy of Postgraduate Programme of Godfrey Okoye University in International Relations is pivoted on the need to produce high level human resources in the field of International Relations for the dynamic global society. This programme strives to ensure that adequate training is given to graduate students in a way that meets the demand of foreign relations and international affairs in contemporary era. The programme stresses efficient and effective external relations through dialogue and peaceful means of resolution of conflicts.

Objectives
The aims and objectives of this programme are to:
(i) Stimulate in students an appreciation of International Relations theories and other tools of analysis, and application in different contexts at the national and international levels.
(ii) Provide students with a broad and balanced knowledge and practical skills in International Relations.
(iii) Develop in students the ability to apply their International Relations theories, analytical tools, knowledge and skills to the solution of international problems
(iv) Develop in students a range of skills that are relevant to both governmental and non-governmental agencies at home and abroad.
(v) Generate in students the appreciation of the importance of International Relations in a national- political, economic, and social development on the one hand and in the maintenance of global peace and security on the other.

Nomenclature
The following 4 (four) postgraduate diploma and degrees may be offered in Nigerian universities.
- Postgraduate Diploma in International Relations (PGD)
- Master in International Relations (MIR)
- Master of Science in International Relations (M.Sc.)
- Doctor of Philosophy in International Relation (PhD)
Admission Requirements
Postgraduate Diploma (PGD)
(i) Candidates must satisfy the matriculation requirements of the University including English Language.
(ii) Graduates of any approved University with a Minimum of 3rd Class Bachelor's Degree in relevant Social Sciences Disciplines or History.
(iii) A person who held an approved qualification adjudged to be equivalent to a first degree.

Master's Programmes
The criteria for admission into M.Sc. Programmes will be as follows:
(i) Five O'level credits including English and Maths.
(ii) Candidates with a least a 2nd class Lower Division Bachelor's degree from an accredited University with a CGPA of not lower than 3.0 on a 5.0 point scale.

Areas of Specialization
1. Diplomacy/foreign Service
2. International Public Administration
3. International Development

Master in International Relations (MIR)
The course is primarily designed for practitioners or those who want to pursue a career in the Foreign Service or other related agencies.

Requirements for Graduation
Candidate must obtain a minimum of 33 credit units made up of
- Core courses of 15 credit units
- Elective courses 9 credit units
- Seminar 3 credit units
- Research project 6 credit units.
Total 33 credit units

PhD in International Relations
Doctorate (PhD) programmes will be made up of course work of twelve (12) units, seminars 6 (six) units and Thesis (Twelve) 12 units.
## Course Outline

### PGD

<table>
<thead>
<tr>
<th>Course No</th>
<th>Title of Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>IRE 701</td>
<td>International Politics</td>
<td>2</td>
</tr>
<tr>
<td>IRE 702</td>
<td>International Law</td>
<td>2</td>
</tr>
<tr>
<td>IRE 703</td>
<td>Contemporary Strategic Studies</td>
<td>2</td>
</tr>
<tr>
<td>IRE 704</td>
<td>Diplomacy</td>
<td>2</td>
</tr>
<tr>
<td>IRE 705</td>
<td>Comparative Foreign Policy</td>
<td>2</td>
</tr>
<tr>
<td>IRE 706</td>
<td>Nigerian Foreign Policy</td>
<td>2</td>
</tr>
<tr>
<td>IRE 707</td>
<td>International Economic Relations</td>
<td>2</td>
</tr>
<tr>
<td>IRE 712</td>
<td>Foreign Policies of the Francophone States of West Africa</td>
<td>1</td>
</tr>
<tr>
<td>IRE 718</td>
<td>Research Methods &amp; Statistics</td>
<td>2</td>
</tr>
<tr>
<td>IRE 728</td>
<td>Research Project</td>
<td>4</td>
</tr>
</tbody>
</table>

**Elective Courses (Choose two electives for each semester)**

<table>
<thead>
<tr>
<th>Course No</th>
<th>Title of Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>IRE 708</td>
<td>Asia and World Politics</td>
<td>2</td>
</tr>
<tr>
<td>IRE 709</td>
<td>Foreign Policies of the Great Powers</td>
<td>2</td>
</tr>
<tr>
<td>IRE 710</td>
<td>European Union and the World</td>
<td>2</td>
</tr>
<tr>
<td>IRE 711</td>
<td>New States in World Politics</td>
<td>2</td>
</tr>
<tr>
<td>IRE 713</td>
<td>Foreign Policy Analysis</td>
<td>2</td>
</tr>
</tbody>
</table>

### M.Sc.

#### 1st Semester

<table>
<thead>
<tr>
<th>Course No</th>
<th>Title of Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>IRE 801</td>
<td>International Politics</td>
<td>2</td>
</tr>
<tr>
<td>IRE 803</td>
<td>Theories of International Relations</td>
<td>2</td>
</tr>
<tr>
<td>IRE 805</td>
<td>Diplomacy</td>
<td>2</td>
</tr>
<tr>
<td>IRE 807</td>
<td>International Economic Relations</td>
<td>2</td>
</tr>
</tbody>
</table>

#### 2nd Semester

<table>
<thead>
<tr>
<th>Course No</th>
<th>Title of Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>IRE 802</td>
<td>Foreign Policy Analysis</td>
<td>2</td>
</tr>
<tr>
<td>IRE 804</td>
<td>Research Methodology</td>
<td>2</td>
</tr>
<tr>
<td>IRE 806</td>
<td>Nigerian Foreign Policy</td>
<td>2</td>
</tr>
<tr>
<td>IRE 808</td>
<td>Foreign Policies of the Francophone States of West Africa</td>
<td>2</td>
</tr>
<tr>
<td>IRE 818</td>
<td>Seminar</td>
<td>3</td>
</tr>
<tr>
<td>IRE 898</td>
<td>Thesis</td>
<td>6</td>
</tr>
</tbody>
</table>

**Elective Courses (Choose one elective for each semester)**

<table>
<thead>
<tr>
<th>Course No</th>
<th>Title of Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>IRE 809</td>
<td>Ecological and environmental issues in contemporary international Relations</td>
<td>2</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
</tr>
<tr>
<td>------------</td>
<td>------------------------------------------------------------</td>
<td>---------</td>
</tr>
<tr>
<td>IRE 810</td>
<td>Foreign Policy of failed state</td>
<td>2</td>
</tr>
<tr>
<td>IRE 811</td>
<td>Great Powers in Management of International Terrorism</td>
<td>2</td>
</tr>
<tr>
<td>IRE 812</td>
<td>New States in World Politics</td>
<td>2</td>
</tr>
<tr>
<td>IRE 813</td>
<td>European Union and the World</td>
<td>2</td>
</tr>
<tr>
<td>IRE 814</td>
<td>Dynamism of Foreign Policy in Contemporary Era</td>
<td>2</td>
</tr>
<tr>
<td>IRE 815</td>
<td>Asia and the World</td>
<td>2</td>
</tr>
<tr>
<td>IRE 816</td>
<td>Human Rights</td>
<td>2</td>
</tr>
</tbody>
</table>

**PhD**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>IRE 911</td>
<td>Political Economy of International Relations</td>
<td>3</td>
</tr>
<tr>
<td>IRE 913</td>
<td>Contemporary Dynamics of International Relations</td>
<td>3</td>
</tr>
<tr>
<td>IRE 915</td>
<td>Seminar in International Political Economy</td>
<td>2</td>
</tr>
<tr>
<td>IRE 917</td>
<td>Advanced Seminar in International Relations</td>
<td>2</td>
</tr>
<tr>
<td>IRE 919</td>
<td>Political Psychology of International Relations</td>
<td>2</td>
</tr>
<tr>
<td>IRE 922</td>
<td>Environment and Security</td>
<td>2</td>
</tr>
<tr>
<td>IRE 961</td>
<td>Internship in International Relations</td>
<td>2</td>
</tr>
<tr>
<td>IRE 963</td>
<td>Quantitative Methods in International Relations</td>
<td>2</td>
</tr>
<tr>
<td>IRE 964</td>
<td>Qualitative Methods in International Relations</td>
<td>2</td>
</tr>
<tr>
<td>IRE 967</td>
<td>Seminar on Advanced Research Design</td>
<td>1</td>
</tr>
<tr>
<td>IRE 968</td>
<td>Dissertation</td>
<td>12</td>
</tr>
</tbody>
</table>
COURSE DESCRIPTION

IRE 701  International Politics 2 Units
A broad introduction to the study of international politics, significant themes and debates in the arena of contemporary international affairs; origins of the contemporary international system; Political processes in the International Community and contemporary thoughts on inter-state activities; Introduction to problems, dilemmas and puzzles in international politics; Theories of international relations; Actors in international politics; Mechanisms for maintaining international order; Development and underdevelopment in historical and comparative perspective.

IRE 702  International Law 2 Units
Sources and evidence of International Law; International personality of states non-self-governing territories; Rules and principles of general application of International law; Role of Law in International Relationship between domestic and international law, subjects of international law; International rules guiding the conduct of states and that of international organizations, as well as with some of their relations with persons, whether natural or juridical; Jurisdiction in general; Jurisdiction over territorial seas, international waters and space, international treaties, formalities, validity, termination etc.; International law and human rights in theory and practice; Non-state actors and their role in the international system.

IRE 703  Contemporary Strategic Studies 2 Units
Analysis of contemporary strategic concepts - brinkmanship, containment, massive retaliation, flexible and gradual response, mutual assured destruction, compellence saturation, escalation etc; The evolution of strategic thought; Focuses on the traditional and contemporary uses of organized force for political ends; The theory and practice of strategy; Relevance of traditional and new thinking about strategy for understanding the complex issues of war and peace at the beginning of the twenty-first century; The historical and continuing role of military power in support of political ends; Adapted theories about peace and security which were developed during the Cold War and developments in strategic thinking and practice which have taken place since the end of the Cold War, including Revolution in Military Affairs, Information (Cyber) Warfare, and Space Warfare.

IRE 704  Diplomacy 2 Units
Background and the role of diplomacy in international relations, and the nature and origins of the modern diplomatic system; Practical problems in the conduct of diplomacy; The tasks that are encountered in diplomatic negotiation; Perennial issues that arise in the study of diplomacy and negotiation; Origins of Modern Diplomacy; diplomacy and intelligence, propaganda, negotiation, mediation,
conciliation and good offices; Issues in diplomatic negotiation; Transition to Twentieth Century Diplomacy; Analyze issues on the impacts of technological changes on modern diplomacy.

**IRE705 Comparative Foreign Policy**

**2 Units**

Origins and evolution of American, British, French, Russia, China and Canadian foreign policy in the 19th and 20th centuries; The domestic determinants of foreign policy, as well as the study of the national historical backgrounds of Britain, French, Russia, Canada, China and the United States; Analysis of case studies, including the Suez crisis, the war in Vietnam, and other major international events; Development as nations and actors in a multi-national system, their political cultures, and their decision-making processes; The national histories of Great Powers; Comparative analysis of foreign policy of the Great Powers in a national context;

**IRE706 Nigerian Foreign Policy**

**2 Units**

Basic principle underlying Nigeria's Foreign Policy, determinants of policy (domestic and external); The Constitutional Framework and governmental structure, official agencies that formulate policy; Control and coordination of policy; Mechanisms for implementation; Nigeria in international institutions; The making of Nigerian foreign Policy- the role of political parties, the press, parliament, public opinion in the formulation of policy; The role of foreign service and the Federal Executive Council in the process; Foreign Policy and National defense; Relations with major powers; Impact of the changing international environment perceptions and attitudes to the challenges of the post-cold war Order.

**IRE707 International Economic Relations**

**2 Units**

International Financial Institutions and their role in International Economic Governance; The basics of international trade and the World Trade Organization (WTO); Development controversies in focus – International Monetary Fund (IMF) policies, structural adjustment; Economic globalization in historical and contemporary perspective; Current debates about economic globalization; The acceleration of international economic integration after the end of the Cold War; The politics of global trade, money, and finance; examines the connections between power and wealth, states and markets, and economics and politics in the global system; The political underpinnings of the global economy as well as the influences that international economics has on national and international politics.

**IRE 708 Asia in World Politics**

**2 Units**

International Politics in Asia from Second World War to the present; analysing the decline of the European colonial order in South and South East Asia, China, Korea and Japan after World War II; The Cold War alliance; Non alignment and the role of the Association of Southeast Asian Nations (ASEAN); Developments in Indo-
Chine and the impact of changing economic trends in the region; The new strategic configuration in South and East Asia.

IRE 709  Foreign Policy of the Great Powers  2 Units
This course is an examination of the foreign policies of the following countries, Britain, USA, France, Western Germany, China, Japan and Russia; Post 1945 period foreign policies of these nations would be examined alteration would however be focused on the dynamics of their foreign policies in the newly emerging international order; Machinery for foreign policy formulation, diplomatic formulation, diplomatic services and techniques; The politics of members of the EU nations, the expansion of NATO to the former Eastern European countries, the collapse of the former USSR etc. will be analyzed; Following countries will be considered US, USSR now Russia, China, United Kingdom (UK), France, West Germany and Japan.

IRE 710  European Union and the World  2 Units
Analyze the role of the European Union (EU) in wider European and international arenas; Discuss European foreign policy – the creation of EPC in the 1970, culminating in the EU’s the Common Foreign and Security Policy (CFSP) as laid down in the Treaty on EU; EU relations with other major powers outside Europe; Europe relations with the developing countries of the world; International migrations and political refugees with specific focuses on European immigration policies.

IRE 711  New States in World Politics  2 Units
Basic concepts in the analysis of changing relations between state e.g. perception and communications, dependence and independence, dynamics of binding ties etc; examination of the cause and consequences of the collapse of imperial power; international class stratification (1st 2nd 3rd and 4th worlds) policy making in the context of underdevelopment, perception and orientation towards the external world; values, inequality, exploitation and justice in the international system; The Third World in evolution e.g. challenges of the Asian Newly Industrialized Countries (NICS); Prospects for a new International Political, Economic legal and information order.

IRE 713  Foreign Policy Analysis  2 Units
Focus on the frameworks of analysis in the study of foreign policy; introducing the most common model for understanding foreign policy; the basic tools observers can use to understand foreign affairs; empirical evidence increasingly questioned the rationality assumptions of classical security and foreign policy analysis; Theoretical discussions we focus on the sources of foreign policy rather than its content, on policy inputs and the decision-making process rather than on policy outputs; decision-making models and the psychological patterns in human behavior that might systematically influence decision-making; explain foreign
policy behavior in some of the leading crises of the 20th century foreign policy
decisions and rational response to the constraints and opportunities existing in their
external environments.

IRE 717 Foreign Policies of the Francophone States of West Africa
Comprehensive, cross-national study of foreign policies of the Francophone states in West Africa; Major developments in the foreign policies of the Francophone states in West Africa after the end of the Cold War; Foreign policy adaptation of the Francophone states in West Africa; Relations between France and Francophone states of West Africa; Political process of the Francophone states in West Africa; focus on the strategies devised by France to adapt to the rapidly changing landscape of the post-Cold War era vis-à-vis the Francophone states in West Africa New Challenges; The shifting landscape in policies of the Francophone states of West Africa; Contemporary foreign policies of Francophone states of West Africa

IRE 718 Research Methods and Statistics
Basic concepts in research method; Research sources and materials i.e. primary sources, such as official publications, speeches memoirs - secondary sources, such as books, articles, periodicals, newspaper; Emphasis on social research methodologies such as survey and field research, questionnaire design, content and textual analyses, analysis of existing data, focus group, individual and group observation (including participatory observation) etc.; Data collection and data analysis and reporting; Ethical issues in social research, covering such topics as voluntary participation, anonymity and confidentiality and the need to adhere to professional code of ethics; Basics of analyzing research data.

IRE 728 Research Project
Students are expected to choose a topic on any social issue/problem for a field or library research.

IRE 801 International Politics
A broad introduction to the study of international politics, significant themes and debates in the arena of contemporary international affairs; origins of the contemporary international system; Political processes in the International Community and contemporary thoughts on inter-state activities; Introduction to problems, dilemmas and puzzles in international politics; Theories of international relations; Actors in international politics; Mechanisms for maintaining international order; Development and underdevelopment in historical and comparative perspective.

IRE 802 Foreign Policy Analysis
Focus on the frameworks of analysis in the study of foreign policy; introducing the most common model for understanding foreign policy; the basic tools observers can use to understand foreign affairs; empirical evidence increasingly questioned
the rationality assumptions of classical security and foreign policy analysis; Theoretical discussions we focus on the sources of foreign policy rather than its content, on policy inputs and the decision-making process rather than on policy outputs; decision-making models and the psychological patterns in human behavior that might systematically influence decision-making; explain foreign policy behavior in some of the leading crises of the 20th century foreign policy decisions and rational response to the constraints and opportunities existing in their external environments. Comparative examination of theories of foreign policy making, emphasizing the international, domestic, and organizational contexts in which national policies are formulated and enacted.

IRE 803 Theories of International Relations 2 Units
Origins of theoretical study of International Relations; The traditional scientific and post behavioral schools in International Relations; Various theories of International relations; systems theory, functional theory decision making theory, simulation and games theory etc.; Assessment of application and utility of these theories; From utopianism to neoliberal/institutionalist theory; Postmodernist and post-behavioralist international relations theory; International relations theory and the end of the Cold War; Globalization and other paradigms for the 21st century.

IRE 804 Research Methodology 2 Units
Basic concepts in research method; Research sources and materials i.e. primary sources, such as official publications, speeches memoirs - secondary sources, such as books, articles, periodicals, newspaper; Emphasis on social research methodologies such as survey and field research, questionnaire design, content and textual analyses, analysis of existing data, focus group, individual and group observation (including participatory observation) etc.; Data collection and data analysis and reporting; Ethical issues in social research, covering such topics as voluntary participation, anonymity and confidentiality and the need to adhere to professional code of ethics; Basics of analyzing research data.

IRE 805 Diplomacy 2 Units
Background and the role of diplomacy in international relations, and the nature and origins of the modern diplomatic system; Practical problems in the conduct of diplomacy; The tasks that are encountered in diplomatic negotiation; Perennial issues that arise in the study of diplomacy and negotiation; Origins of Modern Diplomacy; diplomacy and intelligence, propaganda, negotiation, mediation, conciliation and good offices; Issues in diplomatic negotiation; Transition to Twentieth Century Diplomacy; Analyze issues on the impacts of technological changes on modern diplomacy.

IRE 806 Nigerian Foreign Policy 2 Units
Basic principle underlying Nigeria's Foreign Policy, determinants of policy (domestic and external); The Constitutional Framework and governmental structure, official agencies that formulate policy; Control and coordination of
policy; Mechanisms for implementation; Nigeria in international institutions; The making of Nigerian foreign Policy- the role of political parties, the press, parliament, public opinion in the formulation of policy; The role of foreign service and the Federal Executive Council in the process; Foreign policy and national defense; Relations with major powers; Impact of the changing international environment perceptions and attitudes to the challenges of the post-cold war Order.

**IRE 807 International Economic Relations**  
2 Units  
International Financial Institutions and their role in International Economic Governance; The basics of international trade and the World Trade Organization (WTO); Development controversies in focus – International Monetary Fund (IMF) policies, structural adjustment; Economic globalization in historical and contemporary perspective; Current debates about economic globalization; The acceleration of international economic integration after the end of the Cold War; The politics of global trade, money, and finance; examines the connections between power and wealth, states and markets, and economics and politics in the global system; The political underpinnings of the global economy as well as the influences that international economics has on national and international politics.

**IRE 808 Foreign Policy of the Francophone States of West Africa**  
2 Units  
Comprehensive, cross-national study of foreign policies of the Francophone states in West Africa; Major developments in the foreign policies of the Francophone states in West Africa after the end of the Cold War; Foreign policy adaptation of the Francophone states in West Africa; Relations between France and Francophone states of West Africa; Political process of the Francophone states in West Africa; focus on the strategies devised by France to adapt to the rapidly changing landscape of the post-Cold War era vis-à-vis the Francophone states in West Africa; new challenges; The shifting landscape in policies of the Francophone states of West Africa; Contemporary foreign policies of Francophone states of West Africa.

**IRE 809 Ecological and Environmental Issues in Contemporary International Relations**  
2 Units  
Issues on ecological and environmental as they affect contemporary politics; Detailed study on environmental pollution, ecological damages, acid rain, depletion of rain forest, depletion of the ozone layer, green house and effect etc.; Environmental issues with considerable controversy, uncertainty, or immediacy will be examined in detail (climate change, pandemic flu virus, major natural disaster, etc.); Plausible changes scientific knowledge, economic and environmental conditions, technology, and international power relationships; Content knowledge on the environmental topics; Existing laws, treaties, and agreements i.e. variety of international efforts, policies and legislation to save the environment.
IRE 812  New States in World Politics  2 Units
Basic concepts in the analysis of changing relations between state e.g. perception and communications, dependence and independence, dynamics of binding ties etc; examination of the cause and consequences of the collapse of imperial power; international class stratification (1st 2nd 3rd and 4th worlds) policy making in the context of underdevelopment, perception and orientation towards the external world; values, inequality, exploitation and justice in the international system; The Third World in evolution e.g. challenges of the Asian Newly Industrialized Countries (NICS); Prospects for a new International Political, Economic legal and information order.

IRE 813  European Union and the World  2 Units
Analyze the role of the European Union (EU) in wider European and international arenas; Discuss European foreign policy – the creation of EPC in the 1970, culminating in the EU’s the Common Foreign and Security Policy (CFSP) as laid down in the Treaty on EU; EU relations with other major powers outside Europe; Europe relations with the developing countries of the world; International migrations and political refugees with specific focuses on European immigration policies.

IRE 815  Asia in World Politics  2 Units
International politics in Asia from Second World War to the present; analyzing the decline of the European colonial order in South and South East Asia, China, Korea and Japan after World War II; The Cold War alliance; non alignment and the role of the Association of Southeast Asian Nations (ASEAN); Developments in Indo-China and the impact of changing economic trends in the region; The new strategic configuration in South and East Asia.

IRE 816  Human Rights  2 Units
The course focuses on different strategies of development and their relationship with democracy and human rights; the global protection of human rights; the different categories of human rights; the current state of the world in terms of development, democracy, and human rights; the current status of the international human rights system; the evolution of the international and regional human rights systems and considers ways in which the international human rights regime place limits on state behaviour; the international and regional systems for human rights protection; the universe of actors that work for and against realizing effective human rights protection; role of non-governmental organizations (NGOs) and other groups from civil society in the process of development and the promotion of human rights.

IRE 818  Seminar in International Relations  2 Units
Students are expected to make two seminar presentations.
IRE898  Thesis  6 Units
Students are expected to choose a topic on any social issue/problem for a field or library research. A thesis of a minimum of 60 or a maximum of 150 pages would be written on such topic and presented. Students are expected to display a good knowledge in the formulation of a research problem and research questions, the setting of research objectives, formulation of basic assumptions or hypothesis, a wealth of exposure to literature, selection of a research methodology/instrument, and a good knowledge of data analysis, interpretation and recommendation.

IRE 911  Political Economy of International Relations  3 Units
Examines contemporary theoretical and policy debates in the area of international political economy; reviews key concepts, theories and approaches used in the study of international political economy.

IRE 913  Contemporary Dynamics of International Relations  3 Units
Surveys the 20th century’s large events and important tendencies decade by decade, as registered by intellectual and policy elites at the time.

IRE 915  Seminar in International Political Economy  2 Units
Theories of economic cooperation and conflict among nation-states. Liberal, economic nationalists and Marxist theoretical paradigms are explored in an examination of the internationalization of capital, trade and investment and the role of the State in the global economy.

IRE 917  Advanced Seminar in International Relations  2 Units
This course provides an in-depth introduction to the main sub-fields in international relations including security, political economy, foreign policy, and international organizations. Usually offered every spring.

IRE 919  Political Psychology of International Relations  2 Units
Study of psychological explanations for political behavior in international relations. Topics include: cognitive, motivational, and bureaucratic decision theories; leadership; and public opinion.

IRE 922  Environment and Security  2 Units
Examines the relationship between environmental issues and international security; Surveys such topics as resource scarcity, environmental degradation, and deforestation and their implications for national and regional security. Considers such topics as international environmental law, and international environmental regimes.

IRE 961  Internship in International Relations  2 Units
Opportunity to gain practical experience in analysis and conduct of international relations by working at a consulate, governmental agency, non-governmental organization, or non-profit organization.
IRE 963  **Quantitative Methods in International Relations**  2 Units
This course is an epistemological and methodological survey of quantitative social scientific inquiry. It examines concept construction and measurement in statistical and other research techniques. Emphasis is placed on the analysis of data and substantive interpretation of results.

IRE 964  **Qualitative Methods in International Relations**  2 Units
This course covers the history and practice of qualitative methodology. Students learn about the history of qualitative methodology and the ethics of conducting research on human subjects. Students also learn how to do specific qualitative methods, including ethnography, interviewing, discourse analysis, participatory action research, and case study analysis. Each method is learned through a hands-on application. Interdisciplinary in nature, the course also engages students with qualitative research in international studies, geography, anthropology, and sociology, as well as cross-disciplinary work.

IRE 967  **Seminar on Advanced Research Design**  1 Unit
An overview of social science research methodology issues guiding students in the design of their own research projects.

IRE 968  **Dissertation**  12 Units
Supervised research on an original research project to be submitted in partial fulfillment of doctoral degree requirements.
<table>
<thead>
<tr>
<th>S/N</th>
<th>NAMES OF LECTURER</th>
<th>QUALIFICATION</th>
<th>SPECIALIZATION</th>
<th>DESIGNATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.</td>
<td>Prof. Obiora Ike</td>
<td>PhD, Dl.Theo, M.Phil, B.Phil, B.Theol, Dipl</td>
<td>Human Rights &amp; Ethics</td>
<td>Professor</td>
</tr>
<tr>
<td>3.</td>
<td>Dr. Jide Chime</td>
<td>PhD, PGDE, M.Sc, MPA, ILD, B.Sc.</td>
<td>International Relations &amp; Diplomacy</td>
<td>Senior Lecturer</td>
</tr>
<tr>
<td>4.</td>
<td>Dr. Nick Obodo</td>
<td>PhD, LL.B (HONS), MBA, PGD, M.Sc., SEMP LL.M</td>
<td>Comparative Public Administration &amp; Administration Law</td>
<td>Senior Lecturer (Adj.)</td>
</tr>
<tr>
<td>5.</td>
<td>Dr. Francisca Obiageli Ifedi</td>
<td>PhD, M.Sc., B.Sc.</td>
<td>Conflict Resolution, Foreign Policy &amp; Economic Diplomacy</td>
<td>Lecturer II</td>
</tr>
<tr>
<td>6.</td>
<td>Rev. Fr. Dr. Ikenna Ogbuka</td>
<td>PhD, M.Sc., PGD, MATH, B.A, B. PHIL,</td>
<td>Peace Studies and Conflict Resolution</td>
<td>Lecturer II</td>
</tr>
<tr>
<td>7.</td>
<td>Rev. Fr. Reginald Chima Anyaeze</td>
<td>PhD, M.Sc., Dip</td>
<td>International Relations</td>
<td>Lecturer II</td>
</tr>
</tbody>
</table>
POSTGRADUATE PROGRAMMES IN POLITICAL SCIENCE

Introduction
The Department of Political Science offers a Postgraduate programme leading to the award of Postgraduate Diploma (PGD), Master of Science (M.Sc.) in six areas of specialization in Political Science.

Philosophy
The Postgraduate Programme is based on the premise that the state is a positive organization not only for the transformation of society, and also for the progressive development of man as a responsible citizen. Hence the philosophy of the programme is knowledge for development, and aimed at preparing researchers for high level employment in teaching and research and further studies. It provides opportunity for candidates, especially practitioners, to broaden their knowledge in areas of the process involved in socio-economic and political relations and the capacity to suggest, initiate and supervise the implementation of policies intended to ensure their practical attainment.

The programmes are also designed to respond to the needs of the Nigerian society for skilled human resource in diverse areas of public life including public administration, diplomacy, rural development and governance and to produce graduates who have the ability to drive the public and private sectors with specialized skills.

Objectives
The main objectives of the Postgraduate Programmes in political science are to:

a. Introduce students to the concepts, theories, and the practical values of political science in the contemporary Nigerian society.

b. Acquaint the students with the philosophy and methods of political inquiry, analysis and applications.

c. Enable graduates acquire advanced skills and competences in diverse areas of political research.

d. Train skilled human resources for the educational institution, public bureaucracy, private sector and international agencies.

e. Produce graduates who are equipped with relevant ICT knowledge and skills that will assist them in future work in academia, public bureaucracy, private enterprises and international organizations. Through the programme therefore emphasis is placed on training in research techniques and the development of analytical skills that can be applied to solving socio-political problems.

Scope
The curriculum for the postgraduate programmes shall cover the core courses in the following areas: political theory, public administration, comparative government, political economy, terrorism and counter terrorism studies and public policy analysis, Peace and Conflict Studies and government.
Admission Requirement
The basic entry requirement for the Postgraduate Diploma (PGD) Programme in political science shall be:

a. Higher National Diploma (HND) and/or professional qualifications cognate to political science from a recognized institution with at least upper credit with a CGPA of 3.5 on a 5-Point Scale.
b. A third (3rd) class Bachelor's Degree in political science or a related discipline awarded by an approved and accredited university. In addition, the candidate must satisfy the departmental O'level and/or Direct Entry general entry requirements for Degree Programme.

Master of Science Degree (M.Sc)

a. Candidate must satisfy the O'level requirement of the department.
b. Candidate with a Bachelor's Degree in Political Science from an approved university with its political science accredited by the NUC.
c. Candidate with a minimum of second class lower degree and a CGPA of 3.5 on a 5 Point scale.
d. Candidates with a Postgraduate Diploma in Political Science or a cognate discipline awarded by a recognized institution with not less than upper credit.

Doctor of Philosophy Degree Programme (PhD)

a. All candidates must have the university minimum requirement for a B.Sc. degree in Political Science.
b. Candidates with a master's degree with a CGPA of at least 3.5 on a 5.0 point scale.
c. Candidates with Bachelor's degree from an approved university must obtain a minimum of a second class lower degree in the relevant discipline.
d. A brief satisfactory statement of intended area of research.

Areas of Specialization
1. Political Theory
2. Comparative Government
3. Comparative Policy Analysis
4. Public Administration
5. Political Economy
6. Terrorism and Counter Terrorism Studies

SCHEDULE OF COURSES
All candidates admitted for the Postgraduate Diploma in Political Science should register all the courses as listed below, making a total of 36 units:
# Course Outline

## PGD

### First Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>POL 701</td>
<td>Elements of Politics</td>
<td>2</td>
</tr>
<tr>
<td>POL 703</td>
<td>Research Methods &amp; Statistical Process</td>
<td>3</td>
</tr>
<tr>
<td>POL 707</td>
<td>Contemporary Political Analysis</td>
<td>3</td>
</tr>
<tr>
<td>POL 711</td>
<td>Development of Political Thought</td>
<td>2</td>
</tr>
<tr>
<td>POL 713</td>
<td>Nigerian Government and Politics</td>
<td>2</td>
</tr>
<tr>
<td>POL 715</td>
<td>Politics of African States</td>
<td>2</td>
</tr>
<tr>
<td>POL 717</td>
<td>Political Behaviour</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>17 Units</strong></td>
</tr>
</tbody>
</table>

### Second Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>POL 702</td>
<td>Fundamentals of Public Administration</td>
<td>2</td>
</tr>
<tr>
<td>POL 704</td>
<td>Comparative Politics</td>
<td>2</td>
</tr>
<tr>
<td>POL 706</td>
<td>Conflict, Peace &amp; Strategic Studies</td>
<td>2</td>
</tr>
<tr>
<td>POL 708</td>
<td>International Relations</td>
<td>2</td>
</tr>
<tr>
<td>POL 710</td>
<td>Foundations of Political Economy</td>
<td>2</td>
</tr>
<tr>
<td>POL 712</td>
<td>Human Security and Counter-Terrorism</td>
<td>2</td>
</tr>
<tr>
<td>POL 714</td>
<td>Cross-border Cooperation and National Development</td>
<td>2</td>
</tr>
<tr>
<td>POL 716</td>
<td>PGD Project</td>
<td>6</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>20 Units</strong></td>
</tr>
</tbody>
</table>

## Master's Degree Programme

### Compulsory General Courses

All candidates admitted for the degree of Master of Science in Political Science should register 20 units of compulsory courses, 16 units from their areas of specializations, and 2 units as electives, making a total of 38 units. The programme is for a minimum of 2 semesters.

### First Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>POL 801</td>
<td>Methods and Techniques of Political Inquiry</td>
<td>3</td>
</tr>
<tr>
<td>POL 803</td>
<td>Statistical and Mathematical Models</td>
<td>2</td>
</tr>
<tr>
<td>POL 805</td>
<td>Computer and Political Science Research</td>
<td>2</td>
</tr>
<tr>
<td>POL 807</td>
<td>Master's Seminar on Contemporary Issues in Political Science (in specializations)</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>10</strong></td>
</tr>
</tbody>
</table>

### Second Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>POL 802</td>
<td>Issues in Entrepreneurship</td>
<td>2</td>
</tr>
<tr>
<td>POL 804</td>
<td>Cross-border Cooperation and National Development</td>
<td>2</td>
</tr>
</tbody>
</table>
### M.SC. AREAS OF SPECIALIZATION
Candidates should register all the core courses in their areas of specialization as well as any 2 units elective in the Second Semester from the list supplied below:

#### Political Theory
**First Semester**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>POL 811</td>
<td>Classical and Modern Political Theory</td>
<td>2</td>
</tr>
<tr>
<td>POL 813</td>
<td>African Politics and Political Thought</td>
<td>2</td>
</tr>
<tr>
<td>POL 815</td>
<td>Human Security, Development and Social Change</td>
<td>2</td>
</tr>
<tr>
<td>POL 817</td>
<td>Comparative Democracy and Development</td>
<td>2</td>
</tr>
</tbody>
</table>

#### Second Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>POL 808</td>
<td>Contemporary Political Theory and Analysis</td>
<td>2</td>
</tr>
<tr>
<td>POL 810</td>
<td>Democratic Theory in a Changing World</td>
<td>2</td>
</tr>
<tr>
<td>POL 812</td>
<td>Political Behaviour</td>
<td>2</td>
</tr>
<tr>
<td>IRE 814</td>
<td>Politics of International Negotiation and Legislative Process</td>
<td>2</td>
</tr>
</tbody>
</table>

#### Electives

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>POL 816</td>
<td>Epistemology</td>
<td>2</td>
</tr>
<tr>
<td>POL 818</td>
<td>Disaster, Environmental and Health Policy Management</td>
<td>2</td>
</tr>
</tbody>
</table>

#### Public Administration
**First Semester**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>POL 815</td>
<td>Human Security, Development and Social Change</td>
<td>2</td>
</tr>
<tr>
<td>POL 821</td>
<td>Administrative and Management Theories</td>
<td>2</td>
</tr>
<tr>
<td>POL 823</td>
<td>Comparative Public Administration</td>
<td>2</td>
</tr>
<tr>
<td>POL 825</td>
<td>Public Policy and Development Administration</td>
<td>2</td>
</tr>
</tbody>
</table>

#### Second Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>POL 812</td>
<td>Political Behaviour</td>
<td>2</td>
</tr>
<tr>
<td>POL 820</td>
<td>Local Government Administration</td>
<td>2</td>
</tr>
<tr>
<td>POL 822</td>
<td>Public Financial Administration</td>
<td>2</td>
</tr>
<tr>
<td>POL 824</td>
<td>Personnel Administration</td>
<td>2</td>
</tr>
</tbody>
</table>
### Electives
- IRE 814: Politics of International Negotiation and Legislative Process 2
- POL 818: Disaster, Environmental and Health Policy Management 2
- POL 826: E-Governance and National Development 2

### Comparative Politics, Development and Social Change

#### First Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>IRE 814</td>
<td>Politics of International Negotiation and Legislative Process</td>
<td>2</td>
</tr>
<tr>
<td>POL 815</td>
<td>Human Security, Development and Social Change</td>
<td>2</td>
</tr>
<tr>
<td>POL 827</td>
<td>Theory and Methodology of Comparative Politics</td>
<td>2</td>
</tr>
<tr>
<td>IRE 831</td>
<td>American Foreign Policy and Human Security</td>
<td>2</td>
</tr>
</tbody>
</table>

#### Second Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>POL 812</td>
<td>Political Behaviour</td>
<td>2</td>
</tr>
<tr>
<td>POL 817</td>
<td>Comparative Democracy and Development</td>
<td>2</td>
</tr>
<tr>
<td>POL 828</td>
<td>Comparative Political Systems</td>
<td>2</td>
</tr>
<tr>
<td>POL 830</td>
<td>Politics of Regionalism and Area Studies</td>
<td>2</td>
</tr>
</tbody>
</table>

### International Relations and Foreign Policy

#### First Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>POL 815</td>
<td>Human Security, Development and Social Change</td>
<td>2</td>
</tr>
<tr>
<td>IRE 833</td>
<td>Theories of International Relations</td>
<td>2</td>
</tr>
<tr>
<td>IRE 835</td>
<td>Strategic and Peace Studies</td>
<td>2</td>
</tr>
<tr>
<td>IRE 837</td>
<td>International Law and Diplomacy</td>
<td>2</td>
</tr>
</tbody>
</table>

#### Second Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>POL 812</td>
<td>Political Behaviour</td>
<td>2</td>
</tr>
<tr>
<td>IRE 831</td>
<td>American Foreign Policy and Human Security</td>
<td>2</td>
</tr>
<tr>
<td>IRE 834</td>
<td>Foreign Policy Analysis and Nigeria's External Relations</td>
<td>2</td>
</tr>
<tr>
<td>IRE 836</td>
<td>International Politics and Institutions</td>
<td>2</td>
</tr>
</tbody>
</table>
### Electives

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>IRE 814</td>
<td>Politics of International Negotiation and Legislative Process</td>
<td>2</td>
</tr>
<tr>
<td>IRE 832</td>
<td>United States-Africa Relations</td>
<td>2</td>
</tr>
<tr>
<td>IRE 838</td>
<td>Politics of Oil and Middle East Studies</td>
<td>2</td>
</tr>
</tbody>
</table>

### Political Economy

#### First Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>POL 815</td>
<td>Human Security, Development and Social Change</td>
<td>2</td>
</tr>
<tr>
<td>POL 837</td>
<td>International Law and Diplomacy</td>
<td>2</td>
</tr>
<tr>
<td>POL 841</td>
<td>Theories of Political Economy</td>
<td>2</td>
</tr>
<tr>
<td>POL 843</td>
<td>Political Economy of Africa</td>
<td>2</td>
</tr>
</tbody>
</table>

#### Second Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>POL 812</td>
<td>Political Behaviour</td>
<td>2</td>
</tr>
<tr>
<td>POL 830</td>
<td>Politics of Regionalism and Area Studies</td>
<td>2</td>
</tr>
<tr>
<td>IRE 838</td>
<td>Politics of Oil and Middle East Studies</td>
<td>2</td>
</tr>
<tr>
<td>POL 840</td>
<td>Politics of the Global Economy</td>
<td>2</td>
</tr>
</tbody>
</table>

### Electives

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>POL 834</td>
<td>Foreign Policy Analysis and Nigeria's External Relations</td>
<td>2</td>
</tr>
<tr>
<td>IRE 836</td>
<td>International Politics and Institutions</td>
<td>2</td>
</tr>
<tr>
<td>POL 842</td>
<td>Political Economy of Imperialism and Development</td>
<td>2</td>
</tr>
</tbody>
</table>

### Electoral Studies

#### First Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>POL 815</td>
<td>Human Security, Development and Social Change</td>
<td>2</td>
</tr>
<tr>
<td>POL 845</td>
<td>Theory and History of Elections</td>
<td>2</td>
</tr>
<tr>
<td>POL 847</td>
<td>Electoral Commissions and Electoral Management</td>
<td>2</td>
</tr>
<tr>
<td>POL 851</td>
<td>Party Financing and Election Planning</td>
<td>2</td>
</tr>
</tbody>
</table>

#### Second Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>POL 812</td>
<td>Political Behaviour</td>
<td>2</td>
</tr>
<tr>
<td>POL 844</td>
<td>Law Enforcement Agencies and the Electoral Process</td>
<td>2</td>
</tr>
<tr>
<td>POL 846</td>
<td>Electoral System, Adjudication and Reforms</td>
<td>2</td>
</tr>
<tr>
<td>POL 848</td>
<td>Politics of Election Monitoring and Observer Missions</td>
<td>2</td>
</tr>
</tbody>
</table>

### Electives
### Comparative Political Systems

**POL 828** Comparative Political Systems  
**POL 850** Civil Society, Elections and Political Violence  

### Conflict, Peace and Strategic Studies

#### First Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>POL 815</td>
<td>Human Security, Development and Social Change</td>
<td>2</td>
</tr>
<tr>
<td>IRE 837</td>
<td>International Law and Diplomacy</td>
<td>2</td>
</tr>
<tr>
<td>POL 853</td>
<td>Theories of Conflict, Peace and Strategic Studies</td>
<td>2</td>
</tr>
<tr>
<td>POL 855</td>
<td>Strategic Analysis and Defence Policies</td>
<td>2</td>
</tr>
</tbody>
</table>

#### Second Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>POL 812</td>
<td>Political Behaviour</td>
<td>2</td>
</tr>
<tr>
<td>POL 831</td>
<td>American Foreign Policy and Human Security</td>
<td>2</td>
</tr>
<tr>
<td>POL 852</td>
<td>Politics of Intervention, Conflict Resolution and Management</td>
<td>2</td>
</tr>
<tr>
<td>POL 854</td>
<td>Identity Politics in National and International Conflicts</td>
<td>2</td>
</tr>
</tbody>
</table>

#### Electives

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>POL 856</td>
<td>Environmental Politics and Natural Resources Conflict</td>
<td>2</td>
</tr>
<tr>
<td>POL 858</td>
<td>Gender, Human Rights and Armed Conflicts</td>
<td>2</td>
</tr>
<tr>
<td>POL 860</td>
<td>Terrorism and National Security</td>
<td>2</td>
</tr>
</tbody>
</table>

### Human Security and Counter-Terrorism Studies

#### First Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>POL 815</td>
<td>Human Security, Development and Social Change</td>
<td>2</td>
</tr>
<tr>
<td>POL 837</td>
<td>International Law and Diplomacy</td>
<td>2</td>
</tr>
<tr>
<td>POL 857</td>
<td>Theories of Human Security and Counter-Terrorism Diplomacy</td>
<td>2</td>
</tr>
<tr>
<td>POL 861</td>
<td>Intelligence and Global Security Governance since 1939</td>
<td>2</td>
</tr>
</tbody>
</table>

#### Second Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>POL 812</td>
<td>Political Behaviour</td>
<td>2</td>
</tr>
<tr>
<td>POL 831</td>
<td>American Foreign Policy and Human Security</td>
<td>2</td>
</tr>
<tr>
<td>POL 862</td>
<td>Terrorism and National Security</td>
<td>2</td>
</tr>
<tr>
<td>POL 864</td>
<td>Intelligence and Counter-Insurgency</td>
<td>2</td>
</tr>
</tbody>
</table>

#### Electives

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>POL 838</td>
<td>Politics of Oil and Middle East Studies</td>
<td>2</td>
</tr>
<tr>
<td>POL 855</td>
<td>Strategic Analysis and Defence Policies</td>
<td>2</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Units</td>
</tr>
<tr>
<td>-------------</td>
<td>--------------------------------------------------</td>
<td>-------</td>
</tr>
<tr>
<td>POL 856</td>
<td>Environmental Politics and Natural Resources Conflict</td>
<td>2</td>
</tr>
<tr>
<td>POL 866</td>
<td>Cyber-Politics and Trans-border Crimes</td>
<td>2</td>
</tr>
</tbody>
</table>

**PhD**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>IRE 911</td>
<td>Political Economy of International Relations</td>
<td>3</td>
</tr>
<tr>
<td>POL 915</td>
<td>Seminar in International Political Economy</td>
<td>3</td>
</tr>
<tr>
<td>POL 916</td>
<td>Seminar in Political Science</td>
<td>3</td>
</tr>
<tr>
<td>POL 917</td>
<td>Advanced Seminar in Political Science</td>
<td>3</td>
</tr>
<tr>
<td>POL 919</td>
<td>Political Psychology</td>
<td>2</td>
</tr>
<tr>
<td>POL 963</td>
<td>Quantitative Methods in Political Science</td>
<td>2</td>
</tr>
<tr>
<td>POL 964</td>
<td>Qualitative Methods in Political Science</td>
<td>2</td>
</tr>
<tr>
<td>POL 967</td>
<td>Seminar on Advanced Research Design</td>
<td>1</td>
</tr>
<tr>
<td>POL 968</td>
<td>Dissertation</td>
<td>12</td>
</tr>
<tr>
<td>POL 997</td>
<td>Teaching Seminar</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total** 34 Units
COURSE DESCRIPTIONS

**POL 701 Elements of Politics 2 Units**
The nature and scope of politics; basic concepts and language of political discourse, with particular emphasis on theories of the state, power, sovereignty, law, citizenship and political obligation.

**POL 702 Fundamentals of Public Administration 2 Units**
Nature, scope and theories of Public Administration; administrative organization, decision-making processes, politics and efficiency; information technology and its application to public administration; personnel management and development; problems of rewards, accountability, corruption; changes in governmental structure and implications for public administration.

**POL 703 Research Methods and Statistical Process 3 Units**
Theories and methods in political research. The logic and problems of measurement. Relevance of statistics; nature of causation and causal interpretations; formation and testing of hypothesis; fundamentals of research design in political science.

**POL 704 Comparative Politics 2 Units**
Theory and method of comparative politics; classification and basis of political systems; structure of government; analysis of national political development and the politics of development; pluralism and the structure of social conflicts; the military, political change and problems of leadership; democracy, democratic societies and democratization.

**POL 706 Conflict, Peace and Strategic Studies 2 Units**
The evolution of modern strategic thinking – major criticisms of the subject and assessment of their validity; use of force in the nuclear age; theories of deterrence; the requirements of creditability, capability and deterrence; theories of crisis management and limited war, crisis management, brinkmanship and escalation; concepts and threats analysis relevant to strategic theory of Africa; revolutionary warfare; alliances; the history of political, tactical and strategic developments and concepts regarding geopolitical concerns about political and military planning and execution from the mid-20th Century through the modern era.

**POL 707 Contemporary Political Analysis 3 Units**
Classical and scientific traditions in politics; contending orientations in contemporary political analysis; nature of power and influence in politics; characteristics of political systems, with reference to structure, stratification, property, strategies of decision-making, and transformation.
POL 708  International Relations  2 Units
Study of the nature and analysis of international relations: the structure of international society; the nature of the international system, and foreign policy; basic concepts and major theories of international relations and the behaviour of states; international law and international institutions.

POL 710  Foundations of Political Economy  2 Units
The subject matter of politics and economics; discussion of the major doctrines of economic policy with particular emphasis on Classical, Marxian, Neo-classical, and Keynesian theories; the state, class and modes of production welfare and distribution, class struggle, collectivism; politics, division of labour, and international economic relations. This course explores how economic factors affect political institutions and how political action affects economic behaviour in various regions of the world. Particular attention is given to relations between business and labour, economic policy choices, and the impact of international trade.

POL 711  Development of Political Thought  2 Units
Study of Masters of Western political thought from Plato and Aristotle to Rousseau and Marx; critical examination of the doctrinal postulates of the major thinkers and their implications for public policy and social change.

POL 712  Human Security and Counter-Terrorism  2 Units
Theories of human security; theories of terrorism. Assessing the past to forecast the future; consequence management; preparations for and response to terrorism; assassination history: theory and practice; studies on future war; inter-agency operations; joint warfare theory and practice, planning and implementation; covert action and national security; national security and diplomacy; counter-intelligence operations; counter-intelligence; espionage and counterespionage; counter-terrorism and counter-insurgency; security governance approach.

POL 713  Nigerian Government and Politics  2 Units
Examination of pre-colonial and colonial Nigeria society, economy and political system, as background to post-colonial experiments in the capitalist-type federalism, parliamentarianism and presidentialism; ethnic and class relations; military intervention in politics and analysis of military rule, policies and strategies for socio-economic transformation; basic issues in politics, and the social framework into which Nigerian politics and governmental institutions develop and function; forms of political systems such as unitarism, federalism, confederalism; meaning and nature of political parties; types and functions of parties; organization and selection of candidates; colonialism, Indirect rule, nationalism; ethnic politics, census, elections, and military in politics; civil rule and good governance.
POL 714 Cross-border Cooperation and National Development 2 Units
Theories of cross-border cooperation and national development, boundary-making, delimitation and demarcation; cross-border management in ECOWAS, Gulf of Guinea and regional citizenship; the concept of Joint Development Zone, Joint Free Zone, Exclusive Economic Zone, Unitization; the role of the National Boundary Commission in boundary and cross-border management; use of Geographic Information System (GIS) in border management; cross-border cooperation in West Africa, Africa, Asia, Latin America and Europe; the challenges and prospects of cross-border cooperation and cross-border management in Nigeria's international and internal boundaries.

POL 715 Politics of African States 2 Units
Political background of African states, problems of national-building and national integration, as well as the search for continental unity; politics of dependence and development, the state and society, political economy, ethnicity and the national questions, internal peace and security, pan-Africanism economic integration, and Africa in world politics.

POL 716 PGD Project 6 Units
The students shall be required to write a research project on their areas of specialization of not less than 70 pages.

POL 717 Political Behaviour 3 Units
Meaning of Political Behaviour; Scope and Delineation of Political Behaviour; Personality and Attitude; Political Culture; Socialization and Participation; Theories of Social Order; Voting and Voting System; Ethics, Accountability and Transparency in Elections; Gender and Politics; Peace and Conflict Studies; Mass Media and the Democratic Process.

POL 801 Methods and Techniques of Political Inquiry 3 Units
Concepts, variables and relationship of variables. Operationalisation of concepts and empirical referents. Conventional research format and research process. Theorizing, hypotheses and problem formulation. Research design. Development of a logical data framework; Qualitative and quantitative test of hypotheses; Research techniques. Observation, self-report techniques such as survey, interviewing and questionnaire. Issues of reliability and validity. Nature of causation and causal interpretations. Qualitative and quantitative measurements; paradigms and science in political enquiry; types of data, sources of data; qualitative and quantitative data.

POL 802 Issues in Entrepreneurship 2 Units
Theories of Entrepreneurship – origin, concepts and definition; developing entrepreneurship in an organization; sources of political profits; the State and
budgetary allocations; the State and the market relationship; political stability and political entrepreneurship; entrepreneurial opportunities in politics; gender issues in entrepreneurship; political factors in the successes and failures of entrepreneurship; the role of the social media in enhancing entrepreneurship; barriers to entrepreneurship culture; management practice, book keeping and development of a business plan; writing business proposals.

POL 803 Statistical and Mathematical Models 2 Units
The logic and problems of measurement; relevance of statistics; inferential and descriptive statistics. Introduction to the logic of inference in social science and to quantitative analysis in political science and public policy including research design, data collection, data description and computer graphics, and the logic of statistical inference (including linear regression). This course demonstrates how to construct mathematical models of phenomena of interest to political science. Specific applications examined may include models for the distributions of state size, war magnitude, and democracy over time and space; qualitative and quantitative measurements and data analysis.

POL 804 Cross-border Cooperation and National Development 2 Units
Theories of cross-border cooperation and national development, boundary-making, delimitation and demarcation; cross-border management in ECOWAS, Gulf of Guinea and regional citizenship; the concept of Joint Development Zone, Joint Free Zone, Exclusive Economic Zone, Unitization; the role of the National Boundary Commission in boundary and cross-border management; use of Geographic Information System (GIS) in border management; cross-border cooperation in West Africa, Africa, Asia, Latin America and Europe; the challenges and prospects of cross-border cooperation and cross-border management in Nigeria's international and internal boundaries.

POL 805 Computer and Political Science Research 2 Units
Computer applications are emphasized in the introduction to the use of quantitative techniques in political science and public policy; descriptive statistics and principles of statistical inference and probability through analysis of variance and ordinary least-squares regression. Multivariate and time-series analysis of political data; time-series regression; structural equation models; factor analysis; the Statistical Package for the Social Sciences (SPSS).

POL 806 Master's Thesis 6 Units
An independent research investigation to be carried out by the student as subsidiary complement to his course work under the supervision of an academic staff assigned for this purpose. The project report should be a comprehensive study of a problem, an intellectual exposition and explanation of chosen and approved topic selected from the student's areas of specialization.
POL 807 Master’s Seminar on Contemporary Issues in Political Science 3 Units
The seminar will provide an intensive examination of a major issue in any candidate’s area of specialization. This is to ensure that the candidate is able to rigorously follow the research process and also produce a paper that has relevance to his area.

POL 808 Contemporary Political Theory and Analysis 2 Units
Focus on the key 19th century and 20th century political theories covering Marx, Nietzsche, Lenin, Dewey, Niebuhr, Bosanquet, Laski, Mannheim and Rawls. Critical examination of the relations between political theory and the science of politics, knowledge and ideology, revolution, imperialism, nationalism and war. The course critically examines the concept of political analysis, tools of analysis, variables to analyze, theories and models, and the analysis of contemporary political issues such as globalization, international terrorism, economic reforms, ethnicity, authoritarianism, political instability.

POL 810 Democratic Theory in a Changing World 2 Units
Democracy in the industrialised and non-industrialised political systems; politics of democratization and democratization of politics. American contribution to modern democracy; democracy in the socialist states; democratic challenge; analytical survey of the mainstream theory of liberal and totalitarian democracy, including realism versus normativism, elitism and pluralism, secularism and religious messianism, the general will, popular sovereignty and revolutionary purpose; property, economic restrictionism and individualism, democratic transitions and democratization.

POL 811 Classical and Modern Political Theory 2 Units
Ancient and medieval political thought from the Greek-Roman period to the 16th century, with emphasis on the works of Plato, Aristotle, the Stoics, Augustine, Aquinas, Machiavelli and Bodin. Major writers and doctrines in Western political theory from the 17th century to the late 19th century, especially Hobbes, Locke, Montesquieu, Rousseau, Hume, Berkeley, Bentham, Hegel and Marx. Contending schools of thought on the nature of the state, power, authority and legitimacy, law and justice, freedom, equality, liberty and rights. Relations between politics and philosophy, ethics and politics, politics and theology, rationalism and empiricism.

POL 812 Political Behaviour 2 Units
Meaning of political behaviour; Scope and delineation of political behaviour; Personality and attitude; Political culture; Socialization and participation;
Theories of social order; Voting and voting system; Ethics, accountability and transparency in elections; Gender and politics; Peace and conflict studies; Mass media and the democratic process. Collective action, leadership, bargaining, negotiation. Theoretical and empirical perspectives on voting and other forms of political participation, parties, interest groups, public opinion, propaganda, etc.

**POL 813 African Politics and Political Thought**  
2 Units  
General historical survey from its origins to the present, followed by detailed study of the political theories of contemporary African leaders, ideologies of liberation, pan-Africanism, nationalism, socialism, humanism, freedom, democracy, revolution, as reflected in the writings of Blyden, Hartford, Azikiwe, Nkrumah, Senghor, Nyerere, Kaunda, Toure, Fanon, Cabral and Mandela. Comparative study of African politics in particular and of the political systems of developing countries in general; of political parties and structure of government especially federalism. Impacts specifically of colonialism and the structure of post-colonial social conflict, ethnicity and the national question, the military, national security and democracy as well as the character of intra-African functionalism. Foreign policy and diplomacy. The course explores debates over ideals, institutions, and identities in African political thought, conflicts, democratic challenge and imposed development models.

**IRE 814 Politics of International Negotiation and Legislative Process**  
2 Units  
Study of legal aspects of public administration and management; administrative versus constitutional law; legal implications of administrative reforms; bureaucracies; state control and public enterprises, decision-making and decision implementation, recruitment; merit versus spoils system, socialization versus privatization, military versus civilian administration. The negotiation process in the international system and among states. A survey of the academic literature on parliamentary studies, comparing the research on legislative elections, behaviour, and organization in American, European, Asian and African democracies. Compares various approaches to studying legislative activity. Examination of the interactions between individual incentives and political institutions in shaping policy. Examines how re-election-minded legislators organize to solve collective dilemmas, and focuses on the effects of these political institutions on policy choice.

**POL 815 Human Security, Development and Social Change**  
2 Units  
This course deals with the concept of Human security, National security, development and social change. States role in human security. Development and social change. The role of the UN, multilateral actors, the United States, EU, China and Russia. Governance, elections and political change, instability and national

POL 816 Epistemology 2 Units
Examination of the conditions and scope of knowledge, skeptical, rationalist, post-rationalist and empiricist orientations from ancient Greeks to modern time; diversities of contemporary epistemological theory perception memory, knowledge and belief. Conceptual thinking. Logic and fallacies of various perspectives such as conservatism, liberalism and radicalism and formal representations of making and testing them. Language and theories of meaning, evaluation, psychological quality of ideological argument, causality, types of social decision analysis.

POL 818 Disaster, Environmental and Health Policy Management 2 Units
This course deals with the idea of environmental protection and the role of local communities in conservation efforts. Types of communities? Challenges they face in governing their own resources? This course uses both theory and case studies to explore the political economy of community-based conservations. Contemporary environmental issues such as global warming, endangered species, and land use. Problems of the international environment and power relations for national administration. Disaster management processes, early warning systems. Health care delivery and management.

POL 820 Local Government Administration 2 Units
Structures and patterns of local governments and administration in India, Nigeria, South Africa, USA, France and Great Britain. Issues of autonomy, control, finance, staff and functions in comparative perspectives. Problems of inter-governmental relations, with particular reference to Nigeria.

POL 821 Administrative and Management Theories 2 Units
Authority, Discipline, Unity of command, Unity of direction, Subordination of individual interest, Remuneration, Centralization, Scalar chain, Order, Equity, Stability of tenure, Initiative, and Esprit de corps. Functions of managers: planning, organizing, commanding, coordinating, and controlling.

POL 822 Public Financial Administration 2 Units

POL 823 Comparative Public Administration 2 Units
An examination of various paths of European, Asian, American and African political administration and development through consideration of the conflicts that shaped these political systems: the commercialization of agriculture; religion and the role of the church; the army and the state bureaucracy; and industrialization. Stress will be on alternative paradigms and on theorists.

POL 824 Personnel Administration 2 Units
Principles and methods of effective and efficient use of human resources in organizations; recruitment, training and deployment. Motivation, incentives, conditions of work, rights and obligations of employees and employers, trade unionism, especially in Nigeria and selected African countries and international organizations.

POL 825 Public Policy and Development Administration 2 Units
Politics of the administrative state in the world's democracies; political institutions' influence of governance across different types of democratic institutional environments; process by which the preferences of individuals are converted into public policy. Also included will be an examination of the complexity of policy problems, methods for designing better policies, and a review of tools used by analysts and policy makers. The use of real data to assess policy alternatives. Introduction to benefit/cost analysis, decision theory, and the valuation of public goods. Applications to health, environmental, and regulatory economic policy making.

POL 826 E-Governance and National Development 2 Units
This course is concerned with the role of ICT in the governance process and national development. The importance of the computer in the administration processes in government and in the state. The invention of the telegraph, telephone, radio, and
computer in the integration of capabilities. The internet as a worldwide broadcasting capability, a mechanism for information dissemination, and a medium for collaboration and interaction between individuals and their computers without regard for geographic location. The use of the World Wide Web to communicate, share documents, and store information, and engage in commercial transactions with millions of other users throughout the world. The internet as a platform where people all over the world exchange ideas, put an agenda and influence foreign policy anywhere in the world. This course is concerned with how the internet can be effectively employed in governance to evolve, harness and mobilize material and human resources for national development.

**POL 827 Theory and Methodology of Comparative Politics 2 Units**
Critical analysis of the leading theories and methods of comparative politics; structure-functionalism, the political system, modernization, political development, comparative history, political economy. A survey of theories explaining the processes of democratization and democratic stability.

**POL 828 Comparative Political Systems 2 Units**
This course looks at elections in consolidating democracies with an eye to evaluating existing theories of elections with new data. Explores and compares new empirical patterns in countries in Africa, North America, Latin America, Eastern Europe, and the Soviet successor states. Comparative electoral systems and governance. Analysis of the bases of political systems in the context of the experience of industrialized countries. Patterns of government, power, parties, interests, and policy of Great Britain, France, USA, Russia and China. Relationship between ideology and politics especially in French, American, Russian and Chinese revolutions and outlooks. The course examines the similarities and differences in imperial governance, comparing the internal and external political dynamics of traditional (Roman, Ottoman), modernizing (Habsburg), and modern (British) empires. Comparative analysis of attempts by the United States and other industrialized countries to initiate, regulate and reduce immigration from Third World countries. Social and economic factors shaping outcomes of immigration policies, public opinion toward immigrants, anti-immigration movements, and immigration policy reform options in industrialized countries.

**POL 830 Politics of Regionalism and Area Studies 2 Units**
This course reviews the origins and development of regions – North American Free Trade Area (NAFTA), ECOWAS, SADC, the European Union, the African Union and their institutions; theories of integration and the challenges inherent in the creation of a supranational political regime in different regions of the world. Critical examination of central concepts and theories of development, and assessment of their
utility in understanding political, economic, and social change in three regions of the developing world: Latin American, sub-Saharan Africa, and Southeast Asia, North and South America, Europe and Asia. Globalization and regionalism.

**POL 840  Politics of the Global Economy  2 Units**
Dynamics of political aspects of international economics. Analysis of the international political and economic factors involved in international trade, international monetary system and institutions, investment, foreign aid, multinational corporations and North-South relations. Incidence and impact of customs unions and economic blocs. Agricultural and bio-politics. National security. Globalization of the world economy.

**POL 841  Theories of Political Economy  2 Units**
Review of major doctrines and theories of economic policy from mercantilism of Keynesianism. Emphasis on classical, Marxian, and neo-classical political economy, with emphasis on the major works of the leading protagonists and critics. Globalization of the world economy.

**POL 842  Political Economy of Imperialism and Development  2 Units**
Analysis of contending theories of imperialism and the manner in which they impinge on political ideologies and politics of war, colonialism, capitalism and world economic crisis. Detailed study of pre-capitalist and capitalist modes of production, neo-colonialism, center-periphery relations, and the structure of contemporary division of labour. Study of the major theories of development and underdevelopment, with particular reference to developing states – Africa, Asia, Latin America, and the Middle East. Comparative case studies drawn from selected countries in these regions are contrasted with cultural, ecological, scientific and technological aspects of industrialized countries. Globalization of the world economy.

**POL 843  Political Economy of Africa  2 Units**
Contending theories of African underdevelopment and dependency, the state economy and society. Major issues of policy debate; colonialism, neo-colonialism strategy of industrialization and rural transformation, structural adjustment programmes, multinational corporations and relationships of production discussed in the context of contemporary African social structure, nationalism and the search for self-reliance in domestic and foreign policy.

**POL 844  Law Enforcement Agencies and the Electoral Process  2 Units**
This course exposes the student to the contending explanations for electoral violence and the need for law enforcement in the electoral process. Special attention will be paid to the relationship between political parties and electoral violence, and the continued importance or otherwise, of law enforcement agencies in the electoral
process. It also draws attention to godfatherism in the electoral process and its implications, the inaction by electorates to electoral violence and fraud in underdeveloped countries and what account for this.

**POL 845 Theory and History of Elections**  
2 Units  
Meaning of elections; Existing theories on electoral processes; History of elections in Nigeria; Politicization of ethnicity in Nigerian elections; Democratization and transition programmes in Nigeria; Civilian to civilian elections. Meaning and essential features of Democracy; The various theories of democracy, e.g. Classical theory, Modern theory of democracy, Liberal democracy, state structures and democracy; Development models and problems of democratization in Nigeria; Concept of planning and administration; Planning and administration of elections, e.g. Delimitation of constituencies; Registration of voters; Screening and clearing of candidates; Printing of voters' cards; Training of support staff, etc.

**POL 846 Electoral System, Adjudication and Reforms**  
2 Units  
Nigerian Electoral Law; Comparative Electoral Laws. Meaning and Types of Electoral Systems; Comparative Analysis of Electoral Systems and Reforms (e.g. Nigeria, USA, Ghana, Kenya, South Africa, Britain and France); Proposals for Electoral Reforms in Nigeria; Types and Nature of Electoral Disputes; Appointment of Election Tribunals; Powers of Election Tribunals; Conditions or Grounds for Election Petitions; Types of Petition; Execution of Judgment; Problems of Election Tribunals in Nigeria.

**POL 847 Electoral Commissions and Electoral Management**  
2 Units  
Electoral commissions and election management; History and philosophy of electoral commissions; Types of electoral commission, appointment and composition and membership, Organizational structure, powers and functions of the commission; Limitations and strategies for improving the electoral system.

**POL 848 Politics of Election Monitoring and Observer Missions**  
2 Units  
The History and Politics of Election Monitoring; The Role of the State in enhancing Election Monitoring; The Role of the Mass Media. The Political and Legal status of Observer Missions and bodies, both local and international, and the diverse ways by which they might assist both in the conduct of elections and in the credibility of the announced results. Law enforcement agencies and election monitoring. The electorate and election monitoring and observation.

**POL 850 Civil Society, Elections and Political Violence**  
2 Units  
Meaning, history and transformation of civil society in Nigeria; Role of civil society and pressure groups in the conduct of elections in Nigeria; Role and types of civil society; meaning of pressure groups; Functions, dysfunctions and role of civil society
in enhancing democracy; Meaning and dimensions of political violence; Incidence of political violence in Nigerian elections; State, youths and electoral violence; Law enforcement agencies; Political class and political thuggery and electoral violence; Strategies for curbing electoral violence in Nigeria.

**POL 851 Party Financing and Election Planning**  
2 Units  
Models of party finance; Sources of party funding; Rationale for party finance, and the impact of private sponsorship and government funding on party efficiency and responsiveness; Comparative party finance. Concept of administration and planning. Election planning, administration and logistics. Organizing elections and associated problems. Choice of election models, their advantages and disadvantages. The history and politics of election monitoring; The role of the State in enhancing election monitoring; The role of the mass media.

**POL 852 Politics of Intervention, Conflict Resolution and Management**  
2 Units  
This course caters to some of the most current concerns on the global post-Cold War research and policy agenda, including the issues of humanitarian intervention in complex emergencies (including natural disasters); peace building, peacekeeping, peace enforcement. Problems of commitments and burden-sharing across Africa’s major sub-regions; transition from war to peace, from conflict to the post-conflict phase, from authoritarian breakdown to democratic opening; disarmament, demobilization and reintegration of ex-soldiers in post-conflict settings; refugee problems and security; proliferation and trafficking in illegal small arms within and across state borders; reforming institutions of state power, including the military and police forces, for post-conflict peace building and democratic consolidation. Area studies. Collective security. Pacific settlement of disputes. The value of monitoring in conflict and peace; Identify the most appropriate information sources for conflict analysis; Review different approaches and systems for monitoring. Anticipate outcomes to monitor and warn against; Values of early warning; Approaches and information sources; Engendering early warning. Root causes or systemic conditions; Proximate factors: accelerators; Conflict carrying capacity; Peace generating factors; Armed conflict. Working knowledge on the concept and application of conflict monitoring and warning; Understanding of the framework for conflict monitoring and warning; Review models for conflict monitoring and early warning; Address safety issues in monitoring and warning. Overview of Monitoring and Warning of Conflict; Framework for Conflict Monitoring and Warning; Basic Conflict Analysis Framework; Safety Issues.
POL 853 Theories of Conflict, Peace and Strategic Studies 2 Units
Theories of conflict: human needs, relational, political and transformative. Mapping political conflict. Challenges and paralyses of conflict analysis; Conflict analysis framework; Context mapping and analysis; Problem definition and analysis; Conflict tree model, Peace flower model, Conflict Phases. Definitions, assumptions and causes of conflict; Conflict analysis, tools and techniques; Early warning and monitoring; Response design and mobilization. Examines the evolution of modern strategic thinking – major criticisms of the subject and assessment of their validity. Use of force in the nuclear age; theories of deterrence – concept; the requirements of creditability, capability and deterrence. Theories of crisis management and limited war, concept of crisis management, brinkmanship and escalation; concepts and threats analysis relevant to strategic theory; revolutionary warfare; alliances. The history of political, tactical and strategic developments and concepts regarding geopolitical concerns, political and military planning and execution from the mid-20th century through the modern era. Survey of strategies for national defense - deterrence, coercive diplomacy, limited war, and unconventional warfare. An examination of how the interrelationships among military technology, strategy, foreign policy, and the cultural ethos have shaped warfare from the introduction of gunpowder to the present; special attention to selected cases from World Wars I and II and the development of US strategy for nuclear weapons.

POL 854 Identity Politics in National and International Conflicts 2 Units
This course is devoted to researching into and solving conflicts organized around competing identities, economic activities and resource control. Sub-themes include: forms of social identities, their clusters of symbols and interests, and implications for conflict resolution; analysis of structural background, factors of differences making for potential conflicts; accelerators or precipitants of conflict; conflict and trigger mechanisms; conflict prevention and early warning systems; elites and conflict mobilization; ethnic conflict management and resolution; federalism and ethnicity; group versus individual rights; the minority question; the state/society interaction in the accommodation of multi-religious groups; management of diversity. The course is structured around three questions: What are ethnic (racial, national etc) groups and why might they matter for political behaviour? What explains variation in the structure of ethnic demographies? And what are the consequences of variation in ethnic demographies on political outcomes? Citizenship.

POL 855 Strategic Analysis and Defence Policies 2 Units
Concepts and theories of strategies and defence studies. Strategic doctrines of the superpowers; the defence politics of the nuclear powers; NATO and Warsaw Pact. Foreign military intervention in Africa. Hypotheses and prosotions concerning
collective security systems in Africa. Strengths and weaknesses of the South African threat. France and Nigerian neighbours. Introduction to defence economics, Theories of defence expenditure, Budgeting for defence, Theory of collective or public goods; Military alliances. Politics of armament and disarmament, Nuclear Proliferation and Star Wars.

**POL 856 Environmental Politics and Natural Resources Conflicts  2 Units**
This course examines the sources of conflicts specifically traced to the pressures of environmental scarcity, ecological disasters, human and demographic insecurity, and the mechanisms for coping with or transcending them. Sub-themes to include: migration and conflicts; conflicts between nomadic and sedentary occupations or life-styles under centralized state jurisdiction and rule; the land question and rule; the land question and population pressures; epidemics, famine and wars within and between states; refugees flows as source of conflict with the local population; interrelationship between environmental degradation, the incidence of armed conflicts, and political and economic factors; urban poverty, crime and violence, globalization and environmental security; management of humanitarian and refugee studies.

**POL 857 Theories of Human Security and Counter-Terrorism  2Units**
Theories of human security and terrorism. Theories of leadership, governance, conflict and poverty. Definitions, history, and internationalization of terrorism; the interrelation of religion, politics, and terror; and the representation of terrorism in the media. Classical and modern counter-insurgency. Assessing the past to forecast the future; consequence management; preparations for and response to terrorism; assassination history: theory and practice; studies on future war; inter-agency operations; joint warfare theory and practice, planning and implementation; covert action and national security; national security and diplomacy; counter-intelligence operations; counter-intelligence; espionage and counterespionage; counter-terrorism and counter-insurgency. Security governance approach

**POL 858 Gender, Human Rights and Armed Conflicts  2 Units**
The course deals primarily with the gender question in the context of peace and conflict. A key goal of the course aims at engendering peace and conflict and conflict studies, by deconstructing the issues linking gender roles, sexuality, and militarianism as well as the stereotypes about them. Sub-themes include: patriarchal social relations and norms in the construction and deconstruction of men's/women's role in the military and political spheres; role of women in war and peace; impact of women on decision-making and peace; violence against women
and children; child labour; phenomenon of child soldiers; children refugees; gendered war crimes; trauma management and rehabilitation counseling. Our understanding of politics, power, conflict, and quality continue to be challenged and transformed by considering gender as it intersects with nationality, race, class, and ethnicity. The importance of gender in each of the subfields of political science will be discussed. This course examines human rights abuse and redress over time, and across different regions of the world. From this empirically grounded perspective, we critically evaluate contemporary human rights debates.

**POL 861 Intelligence and Global Security Governance since 1939 2 Units**

This course introduces the study of intelligence and security issues in both historical and policy-oriented context and provides a critical introduction to the impact of intelligence and security agencies on major international and national events since 1939. How and why these agencies developed, the security threats with which they had to contend and their use by, and effect upon, their consumers in defence and policy-making. Provides academic 'intelligence studies' skills for practitioners 'practice-oriented' skills for historical analysis. Criminal intelligence analysis; intelligence profiling; deception, propaganda and; counter-intelligence analysis. Methods and techniques of criminal intelligence analysis and strategic organized crime. Multinational analysis and transnational organized crime, corporate drug trafficking organizations, and the impact of crime on national and international policy. How to use criminal intelligence analysis to predict trends, weaknesses, capabilities, intentions, changes, and warnings needed to dismantle criminal organizations. Provides knowledge needed by law enforcement professionals, criminal intelligence analysts working in private industry, and military intelligence personnel making a transition from a military to a law enforcement career; background of the use of intelligence to dismantle criminal organizations and businesses;

**POL 862 Terrorism and National Security 2 Units**

Introduction to terrorism; terrorist tactics; political psychology of terrorists; chemical and biological weapons defence; internal security and defence; threat analysis; institutions of national security; concepts of national security; national security and globalization; study and analysis of international threats to security; foreign threat analysis and action, including the evolution of responses to threats, perspectives on threat action since World War II; principles of threat analysis and response, and assessments of successes and failures of such actions; comprehensive knowledge of threat analysis, how intelligence agencies assess and counter international threats in order to guard states' global interests and protection of their national security from adversaries, and how various threats affect national security policy and decision-making. Employs historical and philosophical
materials to understand which actions are defined as “terrorist,” who uses them, why, and when, as well as the determinants of their effectiveness. Middle East politics and security.

**POL 864 Intelligence and Counter-Insurgency 2 Units**
This course examines the security challenges of terrorism and insurgency; strengths, weaknesses, potential offsetting effects of modern counterterrorism and counterinsurgency strategies; the concept of intelligence and counter-insurgency; evolution of counter-terrorism; Hard and soft power in counterterrorism; Counterinsurgency theory; counterterrorism and counterinsurgency; Counterinsurgency intelligence, surveillance, and reconnaissance operations; the role of intelligence in counterinsurgency. Capacity building and equipment.

**POL 866 Cyber-Politics and Trans-border Crimes 2 Units**
This course focuses on cyberspace and its implications for private and public, sub-national, national, and international actors and entities. The legacy of the 20th century creation of cyberspace, changes to the international system structure, and new modes of conflict and cooperation. Examines international relations theory and accommodates cyberspace as a new venue of politics, and how cyber politics alters traditional international politics. Cyber-politics and democracies; social media and national security. Examines the domestic and international aspects of the drug trade. Investigates the drug issues from the perspectives of consumers, producers, traffickers, money launderers, and law enforcement. Multi-level governance approaches.

**POL 915 Seminar in International Political Economy 3 Units**
Theories of economic cooperation and conflict among nation-states. Liberal, economic nationalists and Marxist theoretical paradigms are explored in an examination of the internationalization of capital, trade and investment and the role of the State in the global economy.

**POL 916 Seminar in Political Science 3 Units**
Theories of economic cooperation and conflict among nation-states. Liberal, economic nationalists and Marxist theoretical paradigms are explored in an examination of the internationalization of capital, trade and investment and the role of the State in the global economy.

**POL 917 Advanced Seminar in Political Science 3 Units**
This course provides an in-depth introduction to the main sub-fields in international relations including security, political economy, foreign policy, and international organizations Usually offered every spring.
POL 919  Political Psychology  2 Units
Study of psychological explanations for political behaviour. Topics include: cognitive, motivational, and bureaucratic decision theories; leadership; and public opinion.

POL 963  Quantitative Methods in Political Science  2 Units
This course is an epistemological and methodological survey of quantitative social scientific inquiry. It examines concept construction and measurement in statistical and other research techniques. Emphasis is placed on the analysis of data and substantive interpretation of results.

POL 964  Qualitative Methods in Political Science  2 Units
This course covers the history and practice of qualitative methodology. Students learn about the history of qualitative methodology and the ethics of conducting research on human subjects. Students also learn how to do specific qualitative methods, including ethnography, interviewing, discourse analysis, participatory action research, and case study analysis. Each method is learned through a hands-on application. Interdisciplinary in nature, the course also engages students with qualitative research in international studies, geography, anthropology, and sociology, as well as cross-disciplinary work.

POL 967  Seminar on Advanced Research Design  1 Unit
An overview of social science research methodology issues guiding students in the design of their own research projects.

POL 968  Dissertation  12 Units
Supervised research on an original research project to be submitted in partial fulfillment of doctoral degree requirements.

POL 997  Teaching Seminar  3 Units
Supervised university teaching including techniques, course and curriculum design, evaluation. Students will prepare and present lectures with direct observations and videotaping for discussion.
## LIST OF ACADEMIC STAFF IN POLITICAL SCIENCE

<table>
<thead>
<tr>
<th>S/N</th>
<th>NAMES OF LECTURERS</th>
<th>QUALIFICATION</th>
<th>SPECIALIZATION</th>
<th>DESIGNATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.</td>
<td>Prof. Dr. Dr. H.C. Christoph Stuckelberger</td>
<td>PhD</td>
<td>Ethics</td>
<td>Professor</td>
</tr>
<tr>
<td>3.</td>
<td>Dr. Desmond O. Onwo</td>
<td>PhD, M.Sc., B.Sc.</td>
<td>Government</td>
<td>Senior Lecturer</td>
</tr>
<tr>
<td>4.</td>
<td>Dr. Jide Chime</td>
<td>PhD, PGDE, M.Sc, MPA, ILD, B.Sc.</td>
<td>International Relations &amp; Diplomacy</td>
<td>Senior Lecturer</td>
</tr>
<tr>
<td>5.</td>
<td>Dr. Francisca Obiageli Ifedi</td>
<td>PhD, M.Sc., B.Sc.</td>
<td>Conflict Resolution, Foreign Policy &amp; economic Diplomacy</td>
<td>Lecturer II</td>
</tr>
<tr>
<td>6.</td>
<td>Dr. Samuel Ugwuozor</td>
<td>PhD, M.Sc., BL, LLB, B.Sc.</td>
<td>Political Philosophy &amp; Theory</td>
<td>Lecturer I</td>
</tr>
<tr>
<td>7.</td>
<td>Dr. Ikenna Ogbuka</td>
<td>PhD, M.Sc., PGD, MATH, B.A, B. PHIL, PhD</td>
<td>Peace Studies and Conflict Resolution</td>
<td>Lecturer II</td>
</tr>
</tbody>
</table>
DEPARTMENT OF SOCIOLOGY AND PSYCHOLOGY
POSTGRADUATE PROGRAMMES IN PSYCHOLOGY

Philosophy

As a science, Psychology seeks to discover patterns, using facts, principles and
generalizations, in order to increase our knowledge, understanding and control of
behaviour in various social and cultural settings, groups, institutions and
organizations.

The philosophy of the psychology curriculum of Godfrey Okoye University is
therefore to equip students with skills, concepts, competencies, theories, models
and abilities which can help them to analyze, understand, predict, condition,
control and modify behaviour for the overall social, economic, political and
national development of Nigeria. Our university's mission and philosophy of
dialogue forms the background of research and teaching in this programme. The
concept of knowledge economy with its associated 21st century skills shall guide
the direction of this postgraduate psychology programme. Entrepreneurship,
motivation, productivity, performance and problem solving shall be core
components of this programme. This programme shall focus on areas of
specialization that shall complement existing psychology postgraduate
programmes in other Nigerian universities.

Aims and Objectives

The aims and objectives of the programme in Psychology are:
(i) To inspire and generate in Postgraduate students an appreciation of the
importance of Psychology in a developing society like Nigeria with regard to
issues of industrialization, economy, environmental and social-cultural
transformations and change and how they affect Nigerians, in relation to their
responses, adjustments, defenses, survival strategies, and values, beliefs,
attitudes and behaviour.

(ii) To develop in Postgraduate Students of Psychology a range of transferable
and utilizable skills and abilities of creative social engineering using the
principles of cognition, learning, motivation, emotion, adjustment, conflicts,
attitudes, beliefs, values, intelligence, personality, leadership and inter
personal skills, etc.).

(iii) To develop in students the ability to apply their psychological knowledge
and skills (such as analysis of behavioural etiology, patterns, prevalence
and epidemiology; using the principles of cognition, learning motivation,
emotion, adjustment, conflicts, attitudes, beliefs, values, intelligence,
personality, leadership and interpersonal skills) in proffering solutions to
theoretical and practical problems of psychology and society.
Learning Outcomes

a) Subject Knowledge
The skills, abilities, psychological terminologies, jargons, principal concepts, schools, models, issues, paradigms, histories, theories and controversies in theoretical and applied psychology, shall be covered for all areas of specialization. Special treatment shall be given to such issues as measurement and diagnosis, psychological testing; test construction, computer applications; artificial intelligence; creativity imagination, and strategic thinking as they relate to development, entrepreneurship; innovation, psychotherapy; stress; conflict and crisis management; social perception; prejudice and stereotypes; problem solving, leadership, organizational and political behaviour, corporate governance; normal and abnormal behaviour.

b) Competencies, Abilities and Skills
Upon graduation, the students shall develop and manifest a range of perspectives, paradigms, world views, approaches to problem solving; abilities, skills, competencies and a very high level of confidence in skills that are relevant to their specific areas of specialization.

Specifically these shall include the following:

i) Research and Applied Skills, Ability to recognize and analyze novel, creative and challenging problems and plan research strategies for their solution.

ii) Skills in the evaluation, interpretation and synthesis of psychological information and data.

iii) ICT and other related skills and competencies.

c) Behavioural Attributes
Graduates of this Psychology programme are expected to manifest certain distinctive behavioural skills, attributes, qualities, personalities and understanding in the society and in their areas of specialization. All graduates are expected to

i) Be professionally, ethically and morally honest, upright and effective, independent minded and creative.

ii) Work in the research domain - be able to generate data and extract same for the classification, categorization and analysis of behaviour.

iii) Transfer skills especially problem solving skills in relevant contexts.

iv) Develop into world class Psychologists of repute; in their chosen areas of specialization through continuous development, research and the application of new knowledge to the solution of the problems of society.

Basic Admission Requirements and Course Duration
a) Candidates for admission into M.Sc./ PhD Programme should possess at least a Second Class Lower (2.2) Honours Degree in Psychology from recognized universities with at least a CGPA of 3.00 on a 5 point scale.
b) For the programmes in Economic Psychology, Engineering Psychology, Media Psychology and Psychology of Religions, the degree could be in psychology or the related course, Economics, Engineering, Mass Communication or Journalism and Theology or Religious Studies respectively.

c) M.Sc./PhD programme shall last for a minimum of eight (8) semesters and a maximum of twelve (12) semesters.

Teaching and Supervision
The teaching of courses in specialization areas that are innovative and new shall follow co-teaching methods. GO University lecturers shall co-teach courses with lecturers from our partner universities (Europe and United States of America). All other courses shall be taught as approved by the postgraduate school. Thesis and dissertation supervision shall include at least one international professor.

Programme Assessment Procedures
All M.Sc./PhD programme in Psychology shall be assessed through course work, seminars, internship and Research projects (thesis and dissertation) which shall be defended. At the Master's level, students shall offer and pass a minimum of 40 course credit units. A minimum of additional 36 credits is required for the PhD. All candidates must register as M.Sc./PhD students.

Postgraduate Certificate in Psychology:
The Postgraduate Certificate programme of Godfrey Okoye University is designed for candidates desiring to get specific skills in Psychology. It is not an entry pathway into the M.Sc./PhD programme. It shall last for 2 semesters.

Academic Mentorship
Every student admitted into the postgraduate Psychology programme is assigned to an academic mentor, who counsels the student on academic matters and supports the student's development in the programme.

Award of Degree
To qualify for the award of the postgraduate degree in Psychology, a candidate must have:

i) Satisfactorily completed a course of instruction and seminar presentations specified by the department.

ii) Submit and defend a thesis for the Master's and a dissertation for the PhD.

iii) Pass the comprehensive examination in psychology or write and publish a seminal paper in a major psychology journal.

iv) Meet all the requirements as stipulated in the Regulations of the School of Postgraduate Studies.

v) File a formal application for graduation.
Areas of Specialization
Godfrey Okoye University offers the following specializations in Psychology.

a) M.Sc./PhD Applied Social Psychology
b) M.Sc./PhD Clinical Psychology (Community or Medical Track)
c) M.Sc./PhD Economic Psychology
d) M.Sc./PhD Engineering Psychology
e) M.Sc./PhD Forensic Psychology
f) M.Sc./PhD Media Psychology
g) M.Sc./PhD Psychology of Religion (Pastoral or Religion Track)
# Course Outlines

## Postgraduate Certificate in Psychology

**Courses**

<table>
<thead>
<tr>
<th>Courses</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>(a) Core courses:</td>
<td></td>
</tr>
<tr>
<td>PSY 701 Basic Concepts and Theories in Psychology</td>
<td>3 units</td>
</tr>
<tr>
<td>PSY 702 Research Methods in Psychology</td>
<td>3 Units</td>
</tr>
<tr>
<td>PSY 704 Computer Applications in Psychology</td>
<td>3 Units</td>
</tr>
<tr>
<td>PSY 711 Psychology of Entrepreneurship and Internship</td>
<td>3 Units</td>
</tr>
<tr>
<td>(b) Electives courses reflecting student's area of specialization</td>
<td>9 Units</td>
</tr>
<tr>
<td>(c) PSY 705 Seminar</td>
<td>3 Units</td>
</tr>
<tr>
<td>(d) PSY 706 Research Project</td>
<td>4 Units</td>
</tr>
<tr>
<td>(e) PSY 712 Professional Ethics in Psychology</td>
<td>2 Unit</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>30 Units</td>
</tr>
</tbody>
</table>

## Optional Courses (Specialisation Areas)

- PSY 707 Systems in Psychotherapies: 6 Units
- PSY 708 Forensic Psychology: 6 Units
- PSY 796 Practicum in Psychotherapy or Forensic Psychology: 3 Units

## M.Sc. in Psychology

**Courses**

<table>
<thead>
<tr>
<th>Courses</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>(a) Core courses</td>
<td></td>
</tr>
<tr>
<td>PSY 801 Advanced Statistics I</td>
<td>3 Units</td>
</tr>
<tr>
<td>PSY 802 Advanced Statistics II</td>
<td>3 Units</td>
</tr>
<tr>
<td>PSY 803 Professional Ethics in Psychology</td>
<td>1 Unit</td>
</tr>
<tr>
<td>PSY 804 Theories, Controversies and Paradigms in the School of Psychology</td>
<td>3 units</td>
</tr>
<tr>
<td>PSY 806 Computer Applications in Psychology</td>
<td>3 Units</td>
</tr>
<tr>
<td>PSY 807 Advanced Research Methods in Psychology</td>
<td>3 Units</td>
</tr>
<tr>
<td>PSY 809 Psychology of Entrepreneurship and Internship</td>
<td>3 Units</td>
</tr>
<tr>
<td>(b) Electives courses reflecting student's area of specialization</td>
<td>9 Units</td>
</tr>
<tr>
<td>(c) PSY 805 Seminar</td>
<td>3 Units</td>
</tr>
<tr>
<td>(d) PSY 812 Contemporary Issues in Entrepreneurship</td>
<td>3 Units</td>
</tr>
<tr>
<td>(e) PSY 895 Practicum I &amp; II</td>
<td>0 Unit</td>
</tr>
<tr>
<td>(f) PSY 899 Thesis</td>
<td>6 Units</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>40 Units</td>
</tr>
</tbody>
</table>

## PhD in Psychology

<table>
<thead>
<tr>
<th>Courses</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>(a) Electives courses reflecting student's area of specialization</td>
<td>24 Units</td>
</tr>
<tr>
<td>(b) PSY 996 Practicum III, IV, V &amp; VI</td>
<td>0 Unit</td>
</tr>
</tbody>
</table>
(c) PSY 997  Teaching Seminar  
(d) PSY 998  One year Pre-doctoral Internship  
(e) PSY 999  Dissertation  
Total 36 Units  

**Optional Courses**

All students, at the Master's level, in addition to the 31 units of core courses shall offer and pass 9 other units to be selected from the following courses. Students are expected to select courses to complete the 24 units required for the PhD.

**Applied Social Psychology**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSY 833</td>
<td>Developmental Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSY 834</td>
<td>Advanced Physiological Psychology (Biopsychology)</td>
<td>3</td>
</tr>
<tr>
<td>PSY 863</td>
<td>Equation Modeling</td>
<td>3</td>
</tr>
<tr>
<td>PSY 864</td>
<td>Analysis of Behaviour</td>
<td>3</td>
</tr>
<tr>
<td>PSY 911</td>
<td>Advanced Psychopharmacology</td>
<td>3</td>
</tr>
<tr>
<td>PSY 915</td>
<td>Cognitive Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSY 922</td>
<td>Personality Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSY 923</td>
<td>Consultation and Supervision</td>
<td>3</td>
</tr>
<tr>
<td>PSY 935</td>
<td>Advanced Social Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSY 942</td>
<td>Psychology of Social Change</td>
<td>3</td>
</tr>
<tr>
<td>PSY 943</td>
<td>Advanced Theories &amp; Systems in Sensation and Perception</td>
<td>3</td>
</tr>
<tr>
<td>PSY 945</td>
<td>Advanced Theoretical and Applied Psychometrics</td>
<td>3</td>
</tr>
<tr>
<td>PSY 956</td>
<td>Theories of Learning and Conditioning</td>
<td>3</td>
</tr>
<tr>
<td>PSY 957</td>
<td>Positive Psychology and Social Entrepreneur</td>
<td>3</td>
</tr>
<tr>
<td>PSY 958</td>
<td>Theory and Practice of Organizational Development</td>
<td>3</td>
</tr>
</tbody>
</table>

**Clinical Psychology (Community and Medical Track)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSY 821</td>
<td>Advanced Cognitive Assessment</td>
<td>3</td>
</tr>
<tr>
<td>PSY 822</td>
<td>Personality Assessment</td>
<td>3</td>
</tr>
<tr>
<td>PSY 823</td>
<td>Advanced Psychological Testing</td>
<td>3</td>
</tr>
<tr>
<td>PSY 831</td>
<td>Psychotherapy Theory and Methods</td>
<td>3</td>
</tr>
<tr>
<td>PSY 833</td>
<td>Developmental Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSY 834</td>
<td>Advanced Physiological Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSY 910</td>
<td>Introduction to Epidemiology</td>
<td>3</td>
</tr>
<tr>
<td>PSY 911</td>
<td>Advanced Psychopharmacology</td>
<td>3</td>
</tr>
<tr>
<td>PSY 913</td>
<td>Cultural Diversity</td>
<td>3</td>
</tr>
<tr>
<td>PSY 921</td>
<td>Advanced Psychopathology</td>
<td>3</td>
</tr>
<tr>
<td>PSY 922</td>
<td>Group Psychotherapy</td>
<td>3</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
</tr>
<tr>
<td>-------------</td>
<td>--------------------------------------------------------</td>
<td>---------</td>
</tr>
<tr>
<td>PSY 923</td>
<td>Consultation and Supervision</td>
<td>3 Units</td>
</tr>
<tr>
<td>PSY 924</td>
<td>Cognitive Behavioural Assessment and Therapy</td>
<td>3 Units</td>
</tr>
<tr>
<td>PSY 925</td>
<td>Advanced Neuropsychological Assessment</td>
<td>3 Units</td>
</tr>
<tr>
<td>PSY 926</td>
<td>Child and Family Behaviour Therapy</td>
<td>3 Units</td>
</tr>
<tr>
<td>PSY 927</td>
<td>Medical Psychology</td>
<td>3 Units</td>
</tr>
<tr>
<td>PSY 929</td>
<td>Childhood Behaviour Disorders</td>
<td>3 Units</td>
</tr>
<tr>
<td>PSY 935</td>
<td>Advanced Social Psychology</td>
<td>3 Units</td>
</tr>
<tr>
<td>PSY 936</td>
<td>Integrated Primary Care</td>
<td>3 Units</td>
</tr>
<tr>
<td>PSY 937</td>
<td>Health Systems</td>
<td>3 Units</td>
</tr>
<tr>
<td>PSY 941</td>
<td>Community Psychology</td>
<td>3 Units</td>
</tr>
<tr>
<td>PSY 943</td>
<td>Advanced Theories and Systems in Sensation and Perception</td>
<td>3 Units</td>
</tr>
<tr>
<td>PSY 944</td>
<td>Prevention</td>
<td>3 units</td>
</tr>
<tr>
<td>PSY 945</td>
<td>Advanced Theoretical and Applied Psychometrics</td>
<td>3 Units</td>
</tr>
<tr>
<td>PSY 946</td>
<td>Grant Writing in Psychology</td>
<td>3 Units</td>
</tr>
<tr>
<td>PSY 947</td>
<td>Advanced Health Psychology/Behavioural Medicine</td>
<td>3 Units</td>
</tr>
<tr>
<td>PSY 948</td>
<td>Advanced Theories in Psychology of Stress, Conflict and Crisis</td>
<td>3 Units</td>
</tr>
<tr>
<td>PSY 949</td>
<td>Programme Evaluation</td>
<td>3 Units</td>
</tr>
</tbody>
</table>

**Economic Psychology**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSY 851</td>
<td>Advanced Consumer Science</td>
<td>3 Units</td>
</tr>
<tr>
<td>PSY 852</td>
<td>Psychology of Economics</td>
<td>3 Units</td>
</tr>
<tr>
<td>PSY 853</td>
<td>Money and Financial Behaviour</td>
<td>3 Units</td>
</tr>
<tr>
<td>PSY 854</td>
<td>Psychology and Marketing</td>
<td>3 Units</td>
</tr>
<tr>
<td>PSY 855</td>
<td>Psychology of Negotiation</td>
<td>3 Units</td>
</tr>
<tr>
<td>PSY 863</td>
<td>Equation Modeling</td>
<td>3 Units</td>
</tr>
<tr>
<td>PSY 864</td>
<td>Analysis of Behaviour</td>
<td>3 Units</td>
</tr>
<tr>
<td>PSY 934</td>
<td>Advanced Biopsychology (Physiological Psychology)</td>
<td>3 Units</td>
</tr>
<tr>
<td>PSY 935</td>
<td>Advanced Social Psychology</td>
<td>3 Units</td>
</tr>
<tr>
<td>PSY 943</td>
<td>Advanced Theories and Systems in Sensation and Perception</td>
<td>3 Units</td>
</tr>
<tr>
<td>PSY 945</td>
<td>Advanced Theoretical and Applied Psychometrics</td>
<td>3 Units</td>
</tr>
<tr>
<td>PSY 956</td>
<td>Theories of Learning and Conditioning</td>
<td>3 Units</td>
</tr>
<tr>
<td>PSY 957</td>
<td>Positive Psychology and Social Entrepreneur</td>
<td>3 Units</td>
</tr>
<tr>
<td>PSY 958</td>
<td>Theory and Practice of Organizational Development</td>
<td>3 Units</td>
</tr>
<tr>
<td>PSY 980</td>
<td>Intercultural Communication</td>
<td>3 Units</td>
</tr>
</tbody>
</table>

**Engineering Psychology**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSY 861</td>
<td>Engineering Psychology I</td>
<td>3 Units</td>
</tr>
<tr>
<td>PSY 862</td>
<td>Engineering Psychology II</td>
<td>3 Units</td>
</tr>
<tr>
<td>PSY 863</td>
<td>Equation Modeling</td>
<td>3 Units</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Units</td>
</tr>
<tr>
<td>------------</td>
<td>-------------------------------------------------------</td>
<td>-------</td>
</tr>
<tr>
<td>PSY 864</td>
<td>Analysis of Behaviour</td>
<td>3</td>
</tr>
<tr>
<td>PSY 865</td>
<td>Advanced Environmental Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSY 912</td>
<td>Neuropsychological Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSY 915</td>
<td>Cognitive Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSY 916</td>
<td>Cognitive Neuroscience</td>
<td>3</td>
</tr>
<tr>
<td>PSY 918</td>
<td>Neuroimaging</td>
<td>3</td>
</tr>
<tr>
<td>PSY 922</td>
<td>Personality Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSY 933</td>
<td>Developmental Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSY 935</td>
<td>Advanced Social Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSY 943</td>
<td>Advanced Theories and Systems in Sensation and Perception</td>
<td>3</td>
</tr>
<tr>
<td>PSY 945</td>
<td>Advanced Theoretical and Applied Psychometrics</td>
<td>3</td>
</tr>
<tr>
<td>PSY 956</td>
<td>Theories of Learning and Conditioning</td>
<td>3</td>
</tr>
<tr>
<td>PSY 964</td>
<td>Advanced Ergonomics and Human-Machine Systems</td>
<td>3</td>
</tr>
<tr>
<td>PSY 966</td>
<td>Artificial Intelligence</td>
<td>3</td>
</tr>
<tr>
<td>PSY 967</td>
<td>Human Abilities</td>
<td>3</td>
</tr>
<tr>
<td>PSY 968</td>
<td>Human-Computer Interaction</td>
<td>3</td>
</tr>
</tbody>
</table>

**Forensic Psychology**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSY 864</td>
<td>Analysis of Behaviour</td>
<td>3</td>
</tr>
<tr>
<td>PSY 870</td>
<td>Forensic Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSY 871</td>
<td>Forensic Neuropsychology</td>
<td>3</td>
</tr>
<tr>
<td>PSY 873</td>
<td>Eye Witness and Victims</td>
<td>3</td>
</tr>
<tr>
<td>PSY 921</td>
<td>Advanced Psychopathology</td>
<td>3</td>
</tr>
<tr>
<td>PSY 922</td>
<td>Personality Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSY 934</td>
<td>Advanced Physiological Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSY 935</td>
<td>Advanced Social Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSY 943</td>
<td>Advanced Theories and Systems in Sensation and Perception</td>
<td>3</td>
</tr>
<tr>
<td>PSY 945</td>
<td>Advanced Theoretical and Applied Psychometrics</td>
<td>3</td>
</tr>
<tr>
<td>PSY 956</td>
<td>Theories of Learning and Conditioning</td>
<td>3</td>
</tr>
<tr>
<td>PSY 971</td>
<td>Forensic Assessment in Child Custody and Child Abuse Cases</td>
<td>3</td>
</tr>
<tr>
<td>PSY 972</td>
<td>Interrogation and Interviewing Strategies</td>
<td>3</td>
</tr>
<tr>
<td>PSY 974</td>
<td>Forensic Psychological Assessment I</td>
<td>3</td>
</tr>
<tr>
<td>PSY 975</td>
<td>Forensic Psychological Assessment II</td>
<td>3</td>
</tr>
<tr>
<td>PSY 976</td>
<td>Psychotic Disorders</td>
<td>3</td>
</tr>
<tr>
<td>PSY 977</td>
<td>Trauma and Maltreatment</td>
<td>3</td>
</tr>
</tbody>
</table>

**Media Psychology**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSY 881</td>
<td>Introduction to Media Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSY 882</td>
<td>Audience Engagement</td>
<td>3</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Units</td>
</tr>
<tr>
<td>-------------</td>
<td>-----------------------------------------------------</td>
<td>-------</td>
</tr>
<tr>
<td>PSY 883</td>
<td>Consumer Neuroscience</td>
<td>3</td>
</tr>
<tr>
<td>PSY 884</td>
<td>Cognitive Psychology and Display of information</td>
<td>3</td>
</tr>
<tr>
<td>PSY 935</td>
<td>Advanced Social Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSY 943</td>
<td>Advanced Theories and Systems in Sensation and</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Perception</td>
<td></td>
</tr>
<tr>
<td>PSY 945</td>
<td>Advanced Theoretical and Applied Psychometrics</td>
<td>3</td>
</tr>
<tr>
<td>PSY 956</td>
<td>Theories of Learning and Conditioning</td>
<td>3</td>
</tr>
<tr>
<td>PSY 980</td>
<td>Intercultural Communication</td>
<td>3</td>
</tr>
<tr>
<td>PSY 957</td>
<td>Positive Psychology and Social Entrepreneur</td>
<td>3</td>
</tr>
<tr>
<td>PSY 981</td>
<td>Media and Political Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSY 982</td>
<td>Global Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSY 983</td>
<td>Story Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSY 984</td>
<td>Psychology of Social Media Strategy</td>
<td>3</td>
</tr>
<tr>
<td>PSY 985</td>
<td>Augmented Reality and Immersive Technology</td>
<td>3</td>
</tr>
<tr>
<td>PSY 986</td>
<td>Innovation, Learning and Online Education</td>
<td>3</td>
</tr>
<tr>
<td>PSY 987</td>
<td>Argumentation: The Art of Critical Writing</td>
<td>3</td>
</tr>
<tr>
<td>PSY 988</td>
<td>Brand Psychology and Social Storytelling</td>
<td>3</td>
</tr>
<tr>
<td>PSY 989</td>
<td>Psychology of Neuromarketing</td>
<td>3</td>
</tr>
</tbody>
</table>

**Psychology of Religion (Pastoral and Religion Track)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSY 821</td>
<td>Advanced Cognitive Assessment</td>
<td>3</td>
</tr>
<tr>
<td>PSY 822</td>
<td>Personality Assessment</td>
<td>3</td>
</tr>
<tr>
<td>PSY 823</td>
<td>Advanced Psychological Testing</td>
<td>3</td>
</tr>
<tr>
<td>PSY 831</td>
<td>Psychotherapy Theory and Methods</td>
<td>3</td>
</tr>
<tr>
<td>PSY 833</td>
<td>Developmental Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSY 834</td>
<td>Advanced Physiological Psychology (Biopsychology)</td>
<td>3</td>
</tr>
<tr>
<td>PSY 891</td>
<td>Psychology of Religion</td>
<td>3</td>
</tr>
<tr>
<td>PSY 892</td>
<td>Introduction to Spiritual Care and Counseling</td>
<td>3</td>
</tr>
<tr>
<td>PSY 893</td>
<td>Peace and Violence</td>
<td>3</td>
</tr>
<tr>
<td>PSY 894</td>
<td>Mental Health, Religion and Culture</td>
<td>3</td>
</tr>
<tr>
<td>PSY 921</td>
<td>Advanced Psychopathology</td>
<td>3</td>
</tr>
<tr>
<td>PSY 922</td>
<td>Group Psychotherapy</td>
<td>3</td>
</tr>
<tr>
<td>PSY 924</td>
<td>Cognitive Behavioural Assessment and Therapy</td>
<td>3</td>
</tr>
<tr>
<td>PSY 935</td>
<td>Advanced Social Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSY 945</td>
<td>Advanced Theoretical and Applied Psychometrics</td>
<td>3</td>
</tr>
<tr>
<td>PSY 991</td>
<td>Pastoral Psychology of Healing</td>
<td>3</td>
</tr>
<tr>
<td>PSY 992</td>
<td>The Scientific Study of Religion</td>
<td>3</td>
</tr>
<tr>
<td>PSY 993</td>
<td>Psychological Perspective on Religious Development</td>
<td>3</td>
</tr>
<tr>
<td>PSY 994</td>
<td>Pastoral Psychology of Groups</td>
<td>3</td>
</tr>
<tr>
<td>PSY 995</td>
<td>Family Systems</td>
<td>3</td>
</tr>
</tbody>
</table>
COURSE DESCRIPTION

PSY 701  Concepts and Theories in Psychology  3 Units
This course will provide an overview of basic concepts and theories in psychology.

PSY 702  Research Methods in Psychology  3 Units
Problem of behavioural research: control, inference and generalization, demand characteristics and concept of quasi-control. Naturalistic view point in psychological research. Theory of experimentation, experimental designs; hypotheses testing; internal and external validity; plausible and rival hypothesis. Quasi-experimental designs. Correlational research; complex correlation designs; mixed designs; single subject research. Multivariate analysis and psychological theory. Some fundamental issue in psychological methodology; subjectivity vs. objectivity; theory vs. data; behaviour artifacts. The course also focuses on the development of critical thinking and methodological skills required to evaluate and review published research. Ethical and diversity issues in psychological research are examined.

PSY 704  Computer Applications in Psychology  3 Units
Application of computer technology to psychology. In particular, the course will focus on using a word processor (MS-Word), a spreadsheet program (MS-Excel), an e-mail program (Gmail), and a presentation program (MS-PowerPoint). Special emphasis will be placed on the use of computer statistical packages to analyze psychological data (SPSS). This course will also explore a computer program designed to make and run psychology experiments (Psyscope).

PSY 705  Seminar  3 Units
Students are required to complete two seminar courses.

PSY 706  Research Project  3 Units
Student will complete an original independent research under a supervisor.

PSY 707  Systems in Psychotherapies  6 Units
Modern methods of diagnosis: Sources of PS diagnostic information (Medical Evaluation, Psychological Assessment. Sociological Evaluation), Integration of Diagnostic Data (The staff conference, adoption of treatment methods, referral or consultative services). Major systematic approaches to psychotherapy: psychoanalytic therapy, behaviour therapy, client centred psychotherapy, cognitive therapy, existential/transactional analysis, reality therapy, rational-emotive therapy. Techniques and specialized methods of treatment: Individual therapy, group therapies, chemotherapy, electroconvulsive therapy.
PSY 708  Forensic Psychology  6 Units
This course prepares the students for the role psychologists play in the judicial, correctional, and law enforcement fields as service providers, researchers, and expert witnesses. Relevant law, ethical issues, and specialized forensic assessment and intervention techniques are addressed, as well as expert testimony and report writing.

PSY 711  Psychology of Entrepreneurship and Internship  3 Units
This course will explore diverse aspects of entrepreneurship within the broad field of psychology, both theoretically and practically. Questions that will be addressed during the course are: What is entrepreneurship? How could a person become a Psychologist-entrepreneur? Students are expected to write and pitch a business plan in this course.

PSY 712  Professional Ethics in Psychology  2 Units
This course explores ethical and legal issues related to professional conduct. Emphasis is placed on ethical reasoning, as well as ethical principles. Issues related to assessment, therapy, forensics, consultation, and supervision will be explored this course.

PSY 796  Practicum in Psychotherapy or Forensic Psychology  3 Units
Depending on the area of specialization, students will complete three months practicum either in psychotherapy or forensic psychology training.

PSY 801  Advanced Statistics I  3 Units
This course includes an overview of quantitative research methods, basic concepts, and methods used in descriptive, correlational, and inferential statistics. Parametric and nonparametric statistical methods are examined with an emphasis on the requisite skills necessary for the design of rigorous and systematic quantitative research investigations.

PSY 802  Advanced Statistics II  3 Units
Advanced statistical methods for systematic inquiry are covered along with additional skills required for independent research. These include qualitative approaches, quantitative factor analysis, path analysis, and multivariate methods, as well as literature review skills emphasizing the integration and synthesis of findings appropriate to a dissertation proposal.

PSY 803  Professional Ethics in Psychology  1 Unit
This course explores ethical and legal issues related to professional conduct. Emphasis is placed on ethical reasoning, as well as ethical principles, and relevant state regulations. Issues related to assessment, therapy, forensics, consultation, and
supervision will be explored this course.

**PSY 804 Theories, Controversies and Paradigms in the School of Psychology** 3 Units
Contemporary controversies and theoretical perspectives in psychology are discussed in this course, enabling students to develop a knowledge of key concepts and theoretical perspectives in psychology and to develop critical thinking skills. These theories and controversies include nature/nurture debate, localization of function and the varied schools of thought in psychology.

**PSY 805 Seminar** 3 Units
Students are required to complete three seminar courses.

**PSY 806 Computer Applications in Psychology** 3 Units
Application of computer technology to psychology. In particular, the course will focus on using a word processor (MS-Word), a spreadsheet program (MS-Excel), an e-mail program (Gmail), and a presentation program (MS-PowerPoint). Special emphasis will be placed on the use of computer statistical packages to analyze psychological data (SPSS). This course will also explore a computer program designed to make and run psychology experiments (Psycscope).

**PSY 807 Advanced Research Methods in Psychology** 3 Units
Problem of behavioural research: control, inference and generalization, demand characteristics and concept of quasi-control; naturalistic viewpoint in psychological research. Theory of experimentation, experimental designs; hypotheses testing; internal and external validity; plausible and rival hypothesis; quasi-experimental designs; correlational research; complex correlation designs; mixed designs; single subject research; multivariate analysis and psychological theory; some fundamental issue in psychological methodology; subjectivity vs. objectivity; theory vs. data; behaviour artifacts. The course also focuses on the development of critical thinking and methodological skills required to evaluate and review published research. Ethical and diversity issues in psychological research are examined.

**PSY 809 Psychology of Entrepreneurship and Internship** 3 Units
This course will explore diverse aspects of entrepreneurship within the broad field of psychology, both theoretically and practically. Questions that will be addressed during the course are: What is entrepreneurship? How could a person become a Psychologist-entrepreneur? Students are expected to write and pitch a business plan in this course.

**PSY 812 Contemporary Issues in Entrepreneurship** 3 Units
This course inspires entrepreneurial innovation and creativity through interactive lectures, workshops, and case studies in contemporary issues to include energy, life
sciences, healthcare, and technology. Students will gain awareness of entrepreneurial innovation sources, structures and dynamics. Students will develop individual and group skills for generating innovative ideas and find ways to apply these ideas to address current issues and problems in different industries and settings.

**PSY 821  Advanced Cognitive Assessment  3 Units**
This course introduces major approaches and instruments for assessing intellectual and cognitive functioning in children and adults. The history of intellectual assessment and theories of intelligence are addressed with particular attention given to test administration, interpretation, and report writing skills. Laboratory sessions focusing on skill development are included.

**PSY 822  Personality Assessment  3 Units**
This course examines major approaches and techniques for objective personality assessment. Theory, principles, and issues in objective assessment as well as administration and interpretation are addressed. Emphasis is placed on producing coherent descriptions of personality process within the context of professional reports.

**PSY 823  Advanced Psychological Testing  3 Units**
This course introduces specific test instruments and procedures commonly used by psychologists. The focus is on practical application of specific tests and procedures.

**PSY 831  Psychotherapy Theory and Methods  3 Units**
The course provides a survey of varied approaches to psychotherapy and their common features. Topics may include interpersonal, psychodynamic, and group psychotherapy, and integrative approaches to therapy.

**PSY 833  Developmental Psychology  3 Units**
This course examines normal transitions in development across infancy, childhood, adolescence, adulthood, and later adulthood. Cognitive, emotional, and social development are considered along with physical growth and development. Cultural, gender, and family influences are emphasized, and applications to clinical practice are considered.

**PSY 834  Advanced Biopsychology (Physiological Psychology)  3 Units**
Neurophysiological, endocrinological, and biochemical bases of sensory and motor functioning, motivation, learning, memory, and behavior dysfunction. Neurological foundations of human behavior are addressed along with an overview of endocrine processes. The impact of somatic systems on behavior and psychopathology is emphasized, and foundations of language, cognition, learning, and memory, and brain neurochemistry are examined.
**PSY 851  Advanced Consumer Science  3 Units**
In this course we will pay attention to the psychological processes of consumers. We will discuss topics like judgment and decision making in the consumer domain, (unconscious vs. conscious) consumer information processing, goals, motivation and self-regulation, and consumers' affective, cognitive, and behavioral responses towards marketing stimuli and persuasive appeals.

**PSY 852  Psychology of Economics  3 Units**
This course integrates psychological insights into economic models of behavior. It discusses the limitations of standard economic models and surveys the ways in which psychological experiments have been used to learn about preferences, cognition, and behavior. Topics include: trust, vengeance, fairness, impatience, impulsivity, bounded rationality, learning, reinforcement, classical conditioning, loss-aversion, over-confidence, self-serving biases, cognitive dissonance, altruism, subjective well-being, and hedonic adaptation. Economic concepts such as equilibrium, rational choice, utility maximization, Bayesian beliefs, game theory, and behavior under uncertainty are discussed in light of these phenomena.

**PSY 853  Money and Financial Behaviour  3 Units**
Money is an ubiquitous and uniquely human invention. This course addresses the complex relationship that people have with money and the implications for the financial behavior of economic. The following topics will be covered: economic, sociological, and psychological perspectives on what money is. How money causes' adverse psychological consequences such as greed, materialism, and corruption. The individual and societal consequences of poverty, wealth, and inequality. Psychological processes that affect peoples' financial decisions in the domains of saving and spending, pensions, insurances, and taxes.

**PSY 854  Psychology and Marketing  3 Units**
This course introduces the master students in Economic Psychology to the psychological basis of marketing. The main topics include introduction to marketing, market research and analysis, market segmentation, pricing, advertising, brands, and PR, B2B marketing, internet marketing (conversion optimization) and choice architecture.

**PSY 855  Psychology of Negotiation  3 Units**
This course aims to help students improve their skills in two fundamental ways. One is knowledge-oriented: students learn frameworks and concepts for understanding and analyzing negotiation situations. Students acquire terms and models for identifying the type of negotiation and the potential costs and benefits of different strategies and tactics. Based on this, students should be able to interpret situations, plan tactics, and recognize and react to their partner's behavior. A second
and complementary route to improving as a negotiator is *practice-oriented*: students complement their analytical tools with behavioral skills. Negotiation and conflict ultimately come down to behaviors—how a negotiator frames an offer or a concession, how they share information about preferences and priorities.

**PSY 861 Engineering Psychology I 3 Units**
This course will provide an introduction to some of the psychological concepts and facts most useful for a design. Topics will be taken from “experimental” branches of psychology, including sensory and perceptual psychology, cognitive psychology, motor control, and the fields of human-computer interaction. The emphasis is on theories and findings on human performance, rather than the design of systems.

**PSY 862 Engineering Psychology II 3 Units**
Basic principles of human factors for the design, evaluation, and use of displays, controls, and workspace layouts including new technologies and associated human factors problems.

**PSY 863 Equation Modeling 3 Units**
Methods of causal modeling to study causal relations including issues of causality, establishing causality, fundamentals of linear structural equation modeling with latent variables, fitting models.

**PSY 864 Analysis of Behavior 3 Units**
Conceptual, methodological, and theoretical issues in the experimental analysis of behavior with special emphasis on classical and operant conditioning as foundations for complex behavior.

**PSY 865 Environmental Psychology 3 Units**
This course will explore the nature of interrelationships between people and their surroundings by examining an array of critical issues in environmental psychology. Environment is broadly defined to include not only our physical surroundings, natural and built, but also the larger socio-cultural and political milieu in which we live. The course will cover foundational theories on place attachment and place identity and classic issues that help inform urban ecological design such as relationship to nature, landscape preferences, personal space, territoriality, and crowding. Emerging issues of the politics of place will also be covered as well as design processes and the ways through which environmental psychology can inform these design processes.

**PSY 870 Forensic Psychology 3 Units**
This course introduces students to the role psychologists play in the judicial, correctional, and law enforcement fields as service providers, researchers, and
expert witnesses. Relevant law, ethical issues, and specialized forensic assessment and intervention techniques are addressed, as well as expert testimony and report writing.

**PSY 871 Forensic Neuropsychology 3 Units**
Knowledge of: Brain structure and function, neurological disorders, confabulation, amnesia, violence, structural brain scans in court, functional brain scans in court, neuropsychological assessment (psychometrics and psychodiagnostics), aggressive behaviour, mental retardation.

**PSY 873 Eyewitnesses and Victims 3 Units**
Knowledge of: Êstimator variables, system variables, co-witness effects, post-identification feedback, reliability of testimonies, cognitive interview, self-administered interview. Line-up identification procedures, traumatic memories, stress, HPA-axis, neurobiology of learning and memory, resilience, acute and posttraumatic stress disorder, psychological debriefing, repression, recovered memories. False memories and behavioural consequences, forgot-it-all-along effect, coaching, truth-telling and lying in children.

**PSY 881 Introduction to Media Psychology 3 Units**
Media Psychology has emerged as a significant field of study as individuals and society at large grapple with the proliferation of media and communication technologies. Media psychology applies psychological theory to understanding the way this new media landscape impacts the use, experience, and production of media technologies across all economic sectors. This understanding is relevant to applications and careers in telecommunications, education, entertainment, public policy, law, politics, advertising, healthcare, and education. This course is an overview of the emerging field of media psychology. We will discuss the implications for research and practice of how we define the field. We will analyze the impact of mediated communication on content and message perception, drawing on developmental psychology, sensory and cognitive psychology, systems theory, positive psychology, and motivation and learning theories. We will evaluate the psychological implications of traditional and emerging technologies as users and content-producers. Students will develop an understanding of how media affects individuals and cultures and how media can be used for socially constructive purposes. We will consider how media research is interpreted and presented to the public, how social media has redefined the way people, businesses, and groups connect, how media technologies can facilitate learning, and the societal implications of continuing technological change.

**PSY 882 Audience Engagement 3 Units**
This course examines the psychology of the user through persona development to find and engage your audience. The goal of the course is to identify and construct
targeted audience profiles by developing personas. Personas will be created based on psychological theory, looking at the role of personality, motivation, needs, and perception in audience engagement. Persona development drives effective communication and content development, organizational coherence and supports a wide range of applications, including user experience, marketing strategy, fundraising, design and recruitment.

PSY 883 Consumer Neuroscience 3 Units
This course provides a comprehensive introduction to the fast growing field of consumer neurosciences. The course is designed to allow professionals of varied backgrounds to learn and apply persuasion theories based on ground-breaking brain discoveries. Traditional consumer research (surveys and focus groups) have often failed to provide a credible interpretation of the cognitive, affective and instinctive processes that influence consumer responses to multiple forms of advertising and media stimuli. The course will discuss the pros and cons of popular theoretical frameworks that have been used for decades to explain and predict the effect of advertising and new research modalities like eye tracking, EEG, GSR (skin conductance) and fMRI used to produce neuroinsights that can help solve critical marketing, social advocacy, advertising communication, and public campaigns.

PSY 884 Cognitive Psychology and the Display of Information 3 Units
Convergence assumes that the cross-device user experience is the same, or at least similar. But the difference is where the cognitive action lies. Increasingly, content creators need to consider both their target delivery device and the principles of cognitive psychology driving the user experience. This course explains the impact of cognitive psychology on devices, visual display, and content design.

PSY 891 Psychology of Religion 3 Units
This course offers understanding of the theoretical and historical foundations of the field. The nature of psychology of religion, including its historical roots, its methods, and problems that face the field, key thinkers such as William James, Sigmund Freud; Erich Fromm C.G. Jung; Gordon Allport, and B.F. Skinner, motivational approaches (e.g., clinically based approaches to the need for religion and psychological structures that sustain belief), Social-psychological approaches (e.g., characteristics of believers and belief), behavioral and biological approaches (e.g. neuroscientific correlates of religious experience).

PSY 892 Introduction to Spiritual Care and Counseling 3 Units
This course introduces a method of spiritual care as practical theology. Students will be asked to engage the experiences of loss, violence, doubt, and despair reflected in spiritual care conversations. They will be invited to use theological, philosophical, psychological, and cultural studies to reflect upon these issues, and
develop theologically and/or spiritually based strategies of care and justice.

**PSY 893  Peace and Violence  3 Units**
This course critically examines issues of peace and violence as concrete, lived realities. Students will be asked to engage these realities through use of philosophical, psychological, social, cultural, political, and personal studies and resources. They will be invited to dialogue and think creatively about these issues, and develop theologically and/or spiritually based understandings, as well as practical approaches, to cultivate ethics of peace and justice.

**PSY 894  Mental Health, Religion and Culture  3 Units**
This course explores the relationships between religion and mental health and the cultural contexts in which the concepts of mental health and religion are embedded. Relationship between different models of mental health and religiousness, psychiatry and views of mental health across cultures, religious and spiritual issues in psychotherapy, psychosis and visionary experience, religion, self-esteem, shame, and guilt and religion, dissociation and somatisation will also be covered.

**PSY 895  Practicum I & II  0 Units**
This first semester of practicum coursework involves supervised clinical field experience typically with a primary focus on assessment. In addition to required hours at the assigned training site, students meet weekly in a practicum seminar led by a faculty member. Students are enrolled for Practicum I and II over the academic year.

**PSY 899  Thesis  6 Units**
Student will complete an independent original empirical study with supervision.

**PSY 910  Introduction to Epidemiology  3 Units**
The aim of this course is to give students a grounding in the basic concepts of epidemiology. Students will gain knowledge about: measuring and interpreting patterns of disease occurrence; routine sources of data, their strengths and limitations; study designs used in epidemiology and when to apply them; epidemiological models of causation.

**PSY 911  Advanced Psychopharmacology  3 Units**
This course is an in-depth and comprehensive examination of issues underlying the use of psychotropic medication in the treatment of clinical disorders. Subjects covered include the placebo effect, management of concurrent medication and psychotherapy treatment, patient adherence to medication regimens, and patient education about medication. Principles of use and current controversies in psychopharmacology and an overview of major drugs of abuse are addressed. This course will also give an overview of some common symptoms of drug abuse and
dependence. Special attention will be given to psychotropic drugs, problems of withdrawal, overdose, and the debilitating effects of drug use and abuse. Alcoholism and theories of alcohol dependence; alcoholism and drug addiction in Nigerian Society will also be covered.

**PSY 912 Neurophysiological Psychology 3 Units**
Study of the cerebrospinal and autonomic nervous system in their relation to Psychological functions; the sense organs and peripheral nervous system; the ductless glands. Theories of bodily correlates of psychological functions. Physiological processes during manipulation of the psychological state of the individual; sleep, hypnosis, emotions, motives, mediation stress, anxiety depression etc. Factors in Psychosomatic disorders; new methods of behaviour modification employing physiological monitoring and biofeedback fall within the area of Neuropsychology.

**PSY 913 Cultural Diversity 3 Units**
This course examines cultural and racial stereotypes that influence assessment and intervention with various racial and ethnic populations in our society. An understanding of cultural differences and the unique medical and mental health needs of various populations are addressed. Group differences that impact the utilization of health promotion, disease prevention, and disease management activities are addressed.

**PSY 915 Cognitive Psychology 3 Units**
Survey course on human cognition including pattern recognition, attention, memory, categorization, problem solving, consciousness, decision making, intention, and the relation between mind and brain.

**PSY 916 Cognitive Neuroscience 3 Units**
Examines the foundations of Cognitive Neuroscience, including the biological mechanisms underlying cognition, the dominant theories, and the experimental techniques.

**PSY 918 Neuroimaging 3 Units**
This course details the potential and limits of fMRI and critically evaluates the inferences that can be drawn from fMRI studies.

**PSY 921 Advanced Psychopathology 3 Units**
The objective of this course is to examine in detail the fundamental concepts in psychopathology. The course will concentrate upon the dynamics of the most common syndromes found in psychotherapy such as personality disorders and sexual deviations, depression, psychosomatic illness: hypertension, migrane
headache, duodenal ulcer, alcoholism, drug abuse, learned helplessness, socio-cultural and cognitive models of psychopathology; psychoses; childhood psychopathology.

**PSY 922  Group Psychotherapy  3 Units**
This course provides an introduction to the basic principles of group psychotherapy. Emphasis is on gaining both experience and a conceptualization of relevant issues in group therapy. This course consists of didactic and experiential components. Theories of group development and relevant research are addressed.

**PSY 923  Consultation and Supervision  3 Units**
This course incorporates theory, research, and practices relating to clinical supervision and consultation within ethical, multicultural and interdisciplinary contexts. It explores the manner in which psychologists function as supervisors and consultants in community, educational, and healthcare settings.

**PSY 924  Cognitive Behavioral Assessment and Therapy  3 Units**
This course covers methods of assessment and intervention used in behavior analysis and cognitive behavior therapy. Emphasis is placed on varied measurement and data collection procedures central to this approach. Methods of systematically manipulating variables through single-case research designs also are introduced as means of establishing functional relationships, selecting treatment outcomes, and evaluating impact of change strategies.

**PSY 925  Advanced Neuropsychological Assessment  3 Units**
This advanced assessment course introduces students to a more comprehensive understanding of a wide range of neuropsychological assessment procedures. Emphasis is placed on neuropsychological assessment of special populations, including pediatric and geriatric conditions. Attention is directed to the diversity considerations in the assessment process.

**PSY 926  Child & Family Behavior Therapy  3 Units**
Behavioral assessment and treatment approaches to the major disorders of childhood are surveyed. Specific strategies for intervention in dysfunctional parent-child interaction, as well as parent-adolescent and parental discord, are covered. Attention is directed to working with diverse populations of children and families.

**PSY 927  Medical Psychology  3 Units**
This course provides an introduction to the field of medical psychology and to the biopsychosospiritual model. This overview of psychological practice with the
medically ill includes topics such as working as a member of a medical treatment
team, common problems of individuals who have medical illness and their
families, and an overview of the disease process in selected illnesses.

**PSY 929 Childhood Behaviour Disorders** 3 Units
Developmental deviations; the atypical child; borderline behaviours; personality
disorders and anti-social behaviours; the role of psychosocial milieu (the family;
neighbourhood etc.); childhood psychoses; the autistic child; mental retardation;
partial mild and profound retardations; Dawn's Syndrome; Soft neurological
disorders in children; minimal brain dysfunction (MBD) hyperactivity; School
phobias; learning disability; Neuro-psychological Assessment of the child.

**PSY 935 Advanced Social Psychology** 3 Units
This course provides an overview of representative social psychological theory
and research as well as a focus on concepts and applications relevant to personality,
human interaction, group dynamics, and behavior. Applications to contemporary
clinical issues are considered.

**PSY 936 Integrated Primary Care** 3 Units
This course explores the basis for integrated care and presents models of integrated
primary health care.

**PSY 937 Health Care Systems** 3 Units
The course aims to introduce the principles of health care organization and policy
in a comparative perspective, identify the key characteristics and components of
health care systems, assess each health care system's strengths and weaknesses,
and discuss the health care system in Nigeria.

**PSY 941 Community Psychology** 3 Units
This course examines theory, concepts, and strategies in community psychology.
Program design, implementation, and evaluation are addressed with an emphasis
on health promotion and disease prevention. Applications in organizational and
occupational settings are considered.

**PSY 942 Psychology of Social Change** 3 Units
In this course, students analyze and evaluate theories of social and personal
change. Students engage in a variety of conceptual and application assignments
focused on power and social inequalities, ethnic inequalities, global environment,
and issues related to gender and sexism, such as homophobia. In addition, students
examine the impact of social change theories on children, families, and societies.
They explore the concepts of change agent and change advocate as well as the role
of the psychologist as change agent. Students also engage in an integrative written
assignment to synthesize theories and analyze a current social problem in their community, for which they propose an action to address the issue and drive positive social change.

**PSY 943 Advanced Theories and Systems in Sensation and Perception** 3 Units
This course examines how sensations and perceptions of the outside world are processed by humans, including physiological, psychophysical, ecological, and computational perspectives.

**PSY 944 Prevention** 3 Units
This course will examine how researchers conceptualize, design, implement and evaluate community programmes to enhance competence, promote empowerment and prevent behavioural problems.

**PSY 945 Advanced Theoretical and Applied Psychometrics** 3 Units
The course provides an overview of psychometrics and its application to psychological assessment. Principles and methods underlying scaling techniques, rating instruments, psychological tests, and other forms of psychological measurement are addressed.

**PSY 946 Grant Writing in Psychology** 3 Units
This course is designed to provide the student with an introduction to the basic components of the grant writing process for psychologists. Emphasis will be placed on learning to write a solid statement of need, realistic project goals and objectives, a basic evaluation plan, and an appropriate project budget. Other common sections of a grant, such as capability of applicant, sustainability/continuation, memorandums of understanding, and abstracts will also be covered.

**PSY 947 Advanced Health Psychology/Behavioural Medicine** 3 Units
This course provides an introduction to psychosocial assessment and intervention methods in the context of treatment of existing health problems, illness prevention, and health maintenance. Assessment of factors influencing quality of life in chronic illness is addressed.

**PSY 948 Advanced Theories in Psychology of Stress, Conflict and Crisis** 3 Units
This course will explore psychological theories of stress, conflict and crisis. Topics such as stress, conflict, learned motives, arousal and unconscious determinants will be considered.

**PSY 949 Program Evaluation** 3 Units
Introduction to theory, design and practice of program evaluation. Emphasis will
be on theories of social programming, selecting appropriate methods, and politics of evaluation.

**PSY 956  Theories of Learning and Conditioning  3 Units**
This course covers the principles of learning and behaviour by surveying theoretical and empirical approaches within psychology. Topics such as classical and operant conditioning, effects stimuli have on learning and behaviour, social learning, motivation, cognitive developmental theory in the context of learning stages and processes, memory, human information processes and problem-solving methods will be covered.

**PSY 957  Positive Psychology and the Social Entrepreneur  3 Units**
What character traits, emotions, and personal virtues contribute to human fulfillment and happiness? How can media serve to promote the development of these qualities at the individual, group, and organizational level? Throughout this course, students will explore the scientific discipline known as positive psychology as it relates to media consumption and development. Positive psychology is an emerging field of psychology that transcends the clinical disease model and serves to examine the source and nature of human strengths. Students will gain an understanding of the symbiotic and interdependent relationship between pro-social media and human traits such as optimism, resilience, creativity and compassion.

**PSY 958  Theory and Practice of Organizational Development  3 Units**
The organisation is a social system that is complex, dynamic and ever changing. This course attempts to explore the management of organisational change and development in a practical way. It does this by recognising that there are research-based methodologies for ensuring that the potential inherent in change is harnessed, and that the capacity and potential of the organisation, in the pursuit of a broad range of organisational objectives, are enabled. This course explores the body of core theory underpinning the organizational development and examines the practice of Organisation Development as a 'process' (not a 'product' or a 'programme') which fundamentally influences and is influenced by the specific organisational context within which it takes place. Drawing on key theoretical frameworks and the approaches of major practitioners, the course also examines a range of current, best practice socio-psychological interventions.

**PSY 963  Artificial Intelligence  3 Units**
A survey of Artificial Intelligence techniques and underlying theory. Topics include problem solving and planning, knowledge representation techniques, reasoning engines and expert systems, and a tour of various application areas of Artificial Intelligence including machine learning, natural language processing and highlevel computer vision
PSY 964 Advanced Ergonomics and Human-Machine Systems 3 Units
The purpose of the course is to provide knowledge and understanding of the field of human factors engineering, including methods and tools for human centred design, usable for different application areas such as product design, vehicle design, production systems design, and general workplace design. The theoretical parts include physical ergonomics (anatomy, anthropometry, biomechanics), cognitive ergonomics (mental performance) and environmental factors (vision, sound, vibrations, climate).

PSY 967 Human Abilities 3 Units
Introduction to differential psychology providing an overview of differences in humans. Topics such as abilities, temperament, and group differences (e.g., gender) are addressed.

PSY 968 Human-Computer Interaction 3 Units
Describes the characteristics of interaction between humans and computers and demonstrates techniques for the evaluation of user-centered systems.

PSY 971 Forensic Assessment in Child Custody and Child Abuse Cases 3 Units
Knowledge of: International guidelines for forensic evaluations in child custody/child protection cases (‘best interests of the child’-doctrine); forensic assessment tools used for parenting capacity assessment, work product review method of forensic evaluations in CCA. Special attention will be given to impartiality and objectivity in order to serve the best interests of the child.

PSY 972 Interrogation & Interviewing Strategies 3 Units
Knowledge of interrogation and interviewing strategies, false confessions, deception detection. The course will deal with the difference between the accusatory interrogation style (i.e., an interrogation aimed at eliciting a confession.), and the information gathering approach (i.e., an interview aimed at eliciting relevant information rather than a confession), and their effects on eliciting false confessions. Best way to detect deception in such interrogation/interviews. Use of non-verbal and verbal cues, and the polygraph to detect deception. Principles from communication research and their uses in mediating between different parties involved in criminal or civil law.

PSY 974 Forensic Psychological Assessment I 3 Units
Knowledge and skills with regard to: Specific requirements of personality assessment in a forensic context (e.g., multimethod assessment; the importance of collateral information; conducting a biographical interview with a forensic patient; use of semi-structured methods, founding of diagnostic conclusions in evidential facts); psychopathy assessment, i.e., students will be able to code the Psychopathy Check List-Revised and Psychopathy Checklist: Youth Version on the basis of a
videotaped semi-structured interview and file information, and ability to write a structured report on it.

**PSY 975  Forensic Psychological Assessment II  3 Units**

Knowledge of: Assessment of criminal responsibility, personality assessment in forensic context, assessment of risk of future violence, writing forensic reports.

**PSY 976  Psychotic Disorders  3 Units**

Knowledge of: Diagnostics (DSM-IV), diagnostic instruments, clinical picture and differential diagnosis, neurobiological and psychosocial etiological models and treatment, relationship between violence and psychosis, etiology of violence, command hallucinations, detection of feigned hallucinations and delusions, cultural aspects.

**PSY 977  Trauma and Maltreatment  3 Units**

This course provides an overview of the impact of sexual, physical, and emotional trauma at various stages of development. A theoretical understanding of trauma and psychological adjustment to trauma, as well as relevant assessment and intervention strategies, are addressed from a biopsychosocial perspective. Child maltreatment and a range of other traumatic experiences are examined.

**PSY 980  Intercultural Communication  3 Units**

Practical knowledge in selected areas of cross-cultural psychology that are particularly relevant for future professionals - ranging from assessment issues to insights into intercultural communication. Topics include: Acculturation, Identity, Intercultural Relations and Intercultural Communication, Clinical Perspectives, Assessment Issues.

**PSY 981  Media and Political Psychology  3 Units**

This course focuses on political and advocacy psychology, and what happens when reason and emotion collide. What determines how people vote? How does one side in the political debate claim the political narrative? Why do people choose to support one cause over another? In any media, those who create advocacy and political messages seek to shape a narrative, to tell a convincing story that makes events come alive. The application of Agenda Setting Theory, traditional print and television, and Internet based media will be covered. The link between media, message, and the political mind will be explored.

**PSY 982  Global Psychology  3 Units**

We use a global perspective in this course to explore ways in which global broadcast and narrowcast media make an impact in society, and how these media are harnessed to actively promote the advancement of social concerns. We assess the use and misuse of traditional media (radio and television), the classical entertainment media (film, theatre, art and music) and the "new" media (internet, social networks, blogs, virtual worlds, and cell phone technologies) in reaching
their desired audiences and convincing them of anything. We explore the techniques of social marketing --adapted from advertising -- for influencing attitudes and behavior. Students investigate media reach and the new forms of digital divides, and then explore media for social activism, including psychological concepts of empathy, altruism, persuasion and influence, all central to the theory and practice of social marketing. Readings emphasize the analysis of social campaign case studies, preparing students for a final project that combines media and psychology to advance a local or global social cause meaningful to them personally. Other class assignments emphasize active asynchronous discussion, short written work practicing a variety of media styles, and a team project to gain experience in the dispersed teamwork typical of global media campaigns.

**PSY 983 Story Psychology** 3 Units
This course addresses the importance of storytelling in Western civilization, culminating in narrative formats used in text, television, film, digital media, and social media. Study the psychology behind how stories originate, evolve, and impact individuals and our media culture. Explore a broad range of narratives and narrative styles and their relationships with personal and social development. Instruction emphasizes conventions of mythology and storytelling as well as literary and cultural issues, the role of media and modes of transmission, and the relationships between narratives and social change. The class will apply established narrative theory in novel ways to better understand modern media, and will include the creation of an original independent digital narrative.

**PSY 984 The Psychology of Social Media Strategy** 3 Units
This course examines how the Internet and social technologies have reshaped society by transforming information distribution and human connection. This course examines social media and emerging technologies and applications by integrating psychological theory with practice drawing primarily from social psychology in the areas of social cognition, attitudes and persuasion, social construction of meaning, collaboration and group interaction, and the social implications of self-efficacy and agency. Psychological shifts that are driving trends such as social entrepreneurship, transmedia narratives, and collaborative culture and the properties of networks and systems that are fundamental to social media applications will also be explored.

**PSY 985 Augmented Reality and Immersive Technology** 3 Units
This course recasts Marshal McLuhan's famous axiom where the device becomes the message. Modern devices combined with a layer of real time information accessed through immersive media and augmented reality, addresses the demand for media strategists rather than technologists. This course draws on the foundations of psychology that lead to effective data visualization, application design, increased human understanding and most importantly mobile advocacy.
PSY 986  Innovation, Learning and Online Education  3 Units
This course focuses on an integrated study of human development with implications for educational psychology. It will explore the major theories of human development with particular emphasis on learning using innovative and digital environment. The interrelationship among motivation, learning, and educational factors that influence human development will be examined. Anytime, anywhere - this characterizes the technology-based culture today. Harnessing the positive energy of new technologies and digital environments to create effective pedagogies can assist in developing an educational atmosphere that is supportive to creativity, interaction, and learning.

PSY 987  Argumentation: The Art of Critical Writing  3 Units
Bernays, Churchill, King, Lincoln, and Paine were some of the most effective and articulate communicators in our history. They understood the power of the pen as well as the importance of argumentation and persuasion. The art of critical writing is a foundational tool in navigating social issues and change. This course will investigate various writers and their respective arguments as they relate to the change promoted.

PSY 988  Brand Psychology and Social Storytelling  3 Units
This course combines the psychology of branding and storytelling with the power of social participation and distribution to engage customers and promote brands across media technology platforms. Creating and applying storytelling to messaging today means orchestrating across multiple platforms and designing for social participation and brand-story coherence. It demands the integration of multiple elements: understanding the media environment, narrative structure, consumer behavior, brand psychology, technology attributes, audience targeting, and process management and evaluation. Storytelling is not new, but the new media environment creates a new approach to building stories and storyworlds for brands and organizations that creates an immersive experience. Social storytelling is not repurposing a message for multiple media channels. It is an additive, 360-degree approach to branding driven by story and user participation. Transmedia storytelling is the structural approach behind successful entertainment franchises, like Game of Thrones and Mad Men, and brand campaigns, such as Intel's Inside Films and TOMS Shoes that built story around social participation. This has become the standard in branding and marketing because it increases profitability, longevity and customer engagement, making a more robust, integrative and vibrant marketing campaign that extends reach in an increasingly fractured marketplace.

PSY 989  The Psychology of Neuromarketing  3 Units
This course examines an emerging field investigating the direct effect of advertising, media and consumer products or services on the brains of consumers.
Traditional self-reports and observation based research methods have often failed to provide a credible interpretation of the cognitive, affective and instinctive processes that influence consumer responses to multiple forms of stimuli. The widespread availability of neuroimaging technologies has allowed neuromarketing researchers to unveil new insights on how messaging or decision-making works in the brain. This fresh knowledge has radically transformed our scientific understanding of the modern consumer. This course provides an understanding of new psychological constructs as well as new modalities that are used to assess, understand and predict the effect of advertisements, media, corporate messages, public service announcements and many more stimuli on the brain.

**PSY 991    Pastoral Psychology of Healing    3 Units**
Every person, in her or his personal relationships and professional activities, is guided by a complex, often tacit, theory of healing, comprised of judgments about illness/suffering (what's wrong?); health/well-being (what's possible? what's ideal?); the trajectory from one to the other (how do we get there?); and factors that enhance as well as inhibit movement along that trajectory (what should we do?). Examining and comparing a range of theories of healing—in psychology, medicine, Christian traditions, world religions, and non-Western cultures—equips us critically to reflect upon, amend, if not reconstruct our respective theories of healing.

**PSY 992    The Scientific Study of Religion    3 Units**
This course focuses on research methods commonly applied in the psychology of religion and critically examines major area of research. Students will have an opportunity to practice the application of the research approach and methods. Topics include: introduction to research methods, religious conversion, mysticism, religious identity, faith and psychotherapy, fundamentalist thinking, authoritarianism, and prejudice, quantitative, qualitative and hermeneutic approaches.

**PSY 993    Psychological Perspectives on Religious Development    3 Units**
This course critically examines psychological and religious approaches to the evolution of religious faith and practice in the course of the life-cycle (e.g. in childhood, adolescence, adulthood and old age). Models of psychological development; stages in the process of faith development, issues in faith development at particular points in the life cycle, nature and nurture and the relationship of psychological and theological models of faith development.

**PSY 994    Pastoral Psychology of Groups    3 Units**
This course has as its first focus the examination of the kinds of psychodynamics that are a part of group life, and the implications of these dynamics for participation in, working with, and serving in pastoral/religious leadership roles with groups in a
variety of settings. This course will introduce students to the conscious and unconscious dynamics of group life, and therefore, will be concerned with the transference, countertransference, projection, group identity, and formation, etc. Additionally, the course will examine the relationship of race/ethnicity, culture, gender, class and sexuality as embedded and integral facets of the psychodynamics that shape group processes. Toward these ends, we will engage psychodynamic theories and concepts concerning the functioning of groups from pastoral psychoanalytic group perspectives, and consider what they might offer in the service of pastoral practice. Students will learn experientially about group processes by participating in a small group comprised of members of the class.

**PSY 996 Practicum III, IV, V & VI**  
0 Unit  
This third to sixth semester of required practicum involves supervised clinical field experience typically with a primary focus on therapy. In addition to required hours at the assigned training site, students meet weekly in a practicum seminar led by a faculty member. Students are enrolled for Practicum III, IV, V and IV over the academic years.

**PSY 997 Teaching Seminar/Practicum**  
3 Units  
Lectures and supervised university teaching including techniques, course and curriculum design, and evaluation. Students will prepare and present lectures with direct observations and videotaping for discussion.

**PSY 998 Internship**  
3 Units  
Completion of comprehensive examinations and all coursework, except the dissertation is required for this internship. This course entails enrollment in a 1 year internship.

**PSY 999 Dissertation**  
6 Units  
PhD students undertake independent research under the guidance of their doctoral dissertation chair and committee.
## LIST OF ACADEMIC STAFF

<table>
<thead>
<tr>
<th>Staff</th>
<th>Qualification</th>
<th>Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Edwin C. Onyeneje</td>
<td>B.Sc., M.Sc., Ph.D. (Social Psychology, UNN)</td>
<td>Professor</td>
</tr>
<tr>
<td>Mary Gloria C. Njoku</td>
<td>B.A., M.A., Ph.D. (Clinical Psychology, DePaul University Chicago, USA)</td>
<td>Professor</td>
</tr>
<tr>
<td>Patrick J. McDevitt</td>
<td>B.A., M.Div., M.S., Ph.D. (Pastoral Counseling Psychology, Loyola Maryland, USA)</td>
<td>Associate Professor</td>
</tr>
<tr>
<td>Bernadette Menkiti</td>
<td>B.Ed, M.Ed., Ph.D. (Educational Psychology, UNN)</td>
<td>Senior Lecturer</td>
</tr>
<tr>
<td>Chris Ofordile</td>
<td>B.Sc., M.A., Ed. D. (Counseling Psychology, Uni. of San Francisco, California, USA)</td>
<td>Senior Lecturer</td>
</tr>
<tr>
<td>Pius Chukwukelu Eze</td>
<td>B.Eng., MSc., PhD (Economics, Wisconsin-Madison, USA)</td>
<td>Senior Lecturer (Adj)</td>
</tr>
<tr>
<td>Francis C. Chinawa</td>
<td>B.Sc., M.Sc., PhD. (Clinical Psychology, UNN)</td>
<td>Lecturer I</td>
</tr>
<tr>
<td>Alexander Onyebuchi</td>
<td>B.A., M.A., Ph.D. (Mass Communication, UNN)</td>
<td>Lecturer I</td>
</tr>
</tbody>
</table>
FACULTY OF NATURAL AND APPLIED SCIENCES

Department of Applied Biology and Biotechnology
M.Sc. Agricultural Biotechnology
M.Sc. Industrial Biotechnology
M.Sc. Medical Biotechnology
M.Sc. Environmental Biotechnology
M.Sc. Entrepreneurship Biotechnology
M.Sc. Forensic Biotechnology and DNA Fingerprinting
PhD Biotechnology

Department of Computer Science and Mathematics
M.Sc. Computer Science

Department of Microbiology
M.Sc. Microbiology (Medical)
M.Sc. Microbiology (Environmental)
M.Sc. Microbiology (Industrial)

Department of Physical and Geo Sciences
M.Sc. Physics
PhD Physics
GENERAL SCIENCE COURSES FOR ALL MASTER'S STUDENTS IN THE FACULTY OF NATURAL AND APPLIED SCIENCES

SCI 801  Management and Entrepreneurship  2 Units
The course will cover business environment, general management, financial management, entrepreneurship development, feasibility studies, marketing and managerial problem solving.

SCI 802  ICT and Research Methodology  2 Units
This course should cover essentials of Spreadsheets, Internet technology, Statistical Packages, Precision and Accuracy of Estimates, Principles of Scientific Research, Concepts of Hypotheses Formulation and Testing, Organization of Research and Report Writing.

SCI 803  Emerging Technologies  2 Units
Nano technology, stretchable silicon, pervasive wireless, nuclear reprogramming, nano biomechanics, epigenetics and cognitive radio.

SCI 804  Science, Environment and Innovation  2 Units
Elements of global warming, environmental protection issues, biodiversity, pollution, species at risk, social and ethical implications of science, enterprise and productivity, intellectual property rights, private public partnership and investment.
DEPARTMENT OF BIOTECHNOLOGY AND APPLIED BIOLOGY
POSTGRADUATE PROGRAMMES IN BIOTECHNOLOGY

1.0 Introduction
The Postgraduate programmes in Biotechnology would lead to the award of:
1. Master of Science (M.Sc) in six specialized Programmes in Biotechnology, and
2. Doctor of Philosophy (Ph.D.) in six specialized Programmes in Biotechnology.

The postgraduate programmes are mixed modes, thoroughly grounded in course work, seminars and research projects that will expose the students to the length and breadth of Biotechnology. The intensive nature of the training is designed to make the students aware of the increasing relevance of Biotechnology to ensuring food security, affordable healthcare delivery, industrial development and sustainable environmental services for the benefit of mankind. These postgraduate programmes are designed to produce scientists in Biotechnology who after graduation will be intellectually qualified and competent to occupy responsible positions in industries, energy, health and environmental sectors as well as in research institutes, and institutions of higher learning anywhere in the world.

All Master's degree students are required to take up to three core courses designed to form the foundation at advanced levels in the various areas of biotechnology. Students are also required to take a number of courses in the specialized areas of their choice on the advice of their supervisor and the departmental graduate studies committee. The M.Sc. examination consists of written papers on the courses taken and research work presented in the form of a project report and or dissertation as the case may be.

The examination for Ph.D. degree shall include course work and thesis embodying the research work carried out by the student that must contain original contributions to knowledge. The training will not only increase the student's skills, intellectual and professional competence for making a career as a Biotechnologist, but also prepares the students for careers as lecturers and researchers in the universities and other tertiary educational institutions, industrial research institutions, government departments and the private sector.

2.0 Philosophy
The basic philosophy of the Biotechnology programme in keeping with the fundamental philosophy of the university at large, is designed to encourage and promote the training of the students in specific aspects of Biotechnology. To join other related institutions and Universities in raising critical mass of Biotechnologists in the country and to assist the students in attaining their maximum potentials in their fields of endeavors. Thus each student's abilities and
skills are recognized and encouraged. The Biotechnology postgraduate programme is designed to train mission-oriented biotechnology experts who will become competent professionals upon graduation and able to relate their studies to practical challenges of life, by promoting biotechnological activities that positively respond to national aspiration and food security, job/wealth creation, affordable healthcare delivery and sustainable environment. This is achieved by encouraging each student to imbibe the habit of having regular and frequent discussion with his/her academic adviser/supervisor. Furthermore, maintenance of an optimal balance of academic excellence, morality and professionalism is highly promoted.

3.0 Aims and Objectives
The aims and objectives of the postgraduate programmes of the Biotechnology Department are:

i. To contribute to the development of critical mass of Biotechnologists in the country, who are capable of using biotechnological tools in solving problems in their various sectors of competence.

ii. To create enabling environment for teaching and to provide “state of the art” laboratory for cutting-edge research in special areas of Biotechnology.

iii. To produce competent biotechnologists with skill for independent research who can become self-employed in the various areas of Biotechnology and can function effectively in the academia and the private sector.

iv. To stimulate interest in relevant disciplines, such as Bioethics, Intellectual Property Rights and Biosafety issues, that will ensure benefit sharing, safety and sustainability in the practice of biotechnology.

4.0 Admission Requirement

4.1 Eligibility for admission into Masters programme, (M.Sc) are as follows:

i. All candidates must have five (5) credit passes at ‘O’Level in English, Mathematics, Biology, Chemistry and Physics.

ii. Candidates with Bachelor's degree in Biotechnology, Biochemistry, Microbiology, Biological Sciences, Crop Science, Food Science and Technology, Chemical Engineering, Pharmacy and related courses from an approved university must obtain a minimum of second class lower division with a CGPA of 3.0/5.0.

iii. Candidates with at least a third class degree or HND and a University postgraduate diploma in Biotechnology, Biochemistry, Microbiology, Biological Sciences, Crop Science, Food Science and Technology, with CGPA of 3.0/5.0 may be considered.
4.2 **Candidates for PhD admission must satisfy the following Conditions:**

I. All candidates must have five credit (5) passes at ‘O’Level in English, Mathematics, Biology, Chemistry and Physics.

ii. Candidates with Bachelor's degree in Biotechnology, Biochemistry, Microbiology, Biological Sciences, Crop Science, Food Science and Technology, Chemical Engineering, Pharmacy and related courses from an approved university must obtain a minimum of second class lower division with a CGPA of 3.0/5.0.

iii. Candidates must have Masters degree in Biotechnology or related course, with a CGPA of 4.0/5.0 and thesis score not lower than 60% (B).

5.0 **Registration Requirements**

All categories of students are required to register relevant courses every semester/session before attending lectures or taking any examinations.

5.1 **Returning Students**

Returning students must present the University official receipts showing evidence of payment of requisite fees and obtain course registration forms to be submitted to the School.

5.2 **New Students**

New students are required to present documents as required by the University for screening. On satisfactory screening of entry documents, and presentation of University receipts for the current fees, the student shall be registered, issued with registration number and course forms which they submit to the School.

5.3 **Credit Load**

Every full-time student is required to register a minimum of 30 credit units per session and minimum of 15 credit units per semester, carry out their research projects and write their theses.

6.0 **Graduation Requirement**

Conditions governing the award of M.Sc., PhD are as follows:

i. Master of Science students must pass all requisite courses spread over three semesters. On completion of the courses, each candidate will be required to submit a dissertation for both internal and external examination defense.

ii. Doctor of Philosophy candidates will be required to submit a thesis of 12 credit units, based on an original research work and defended orally, before a panel of internal and external examiners.

iii. The duration for full time Master's degree is a minimum of three semesters and maximum of five semesters; and a minimum of five semesters and maximum
of eight semesters for part-time. For full-time Doctor of Philosophy, a minimum of six semesters and a maximum of eight semesters, and a minimum of eight semesters and maximum of ten semesters for part-time are required.

7.0 Course Classification
Courses are classified as follows:
   i. **Core Courses**: These are the compulsory courses.
   ii. **Required Courses**: These are compulsory courses
   iii. **Elective Courses**: These are optional courses taken for the purpose of fulfilling the minimum requirements for the award of a degree.

8.0 Grading System
**Grade Point (GP)**
The mark scored in each course has an equivalent letter grade of A to F and each letter grade has a corresponding numerical value of 5.00 to 1.50 called GRADE POINT (GP).

Each score shall be graded out of maximum of 100 marks and assigned appropriate Grade Point Equivalent as in the following table:

<table>
<thead>
<tr>
<th>Credit Units</th>
<th>% Scores</th>
<th>Letter Grades</th>
<th>Grade Points (GP)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vary according to contact hours assigned to each course per week per semester, and according to load carried by students.</td>
<td>70 – 100</td>
<td>A</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>60 - 69</td>
<td>B</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>50 - 59</td>
<td>C</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Below 50</td>
<td>F</td>
<td>0</td>
</tr>
</tbody>
</table>
## M.Sc. in Biotechnology

### Core Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>SCI 801</td>
<td>Management and Entrepreneurship</td>
<td>2</td>
</tr>
<tr>
<td>BTG 801</td>
<td>Advanced Enzyme Biotechnology</td>
<td>2</td>
</tr>
<tr>
<td>BTG 803</td>
<td>Bioethics</td>
<td>2</td>
</tr>
<tr>
<td>SCI 802</td>
<td>ICT and Research Methodology</td>
<td>2</td>
</tr>
<tr>
<td>BTG 804</td>
<td>Seminars in Biotechnology</td>
<td>2</td>
</tr>
<tr>
<td>BTG 806</td>
<td>Research Techniques in Biotechnology</td>
<td>3</td>
</tr>
<tr>
<td>BTG 808</td>
<td>Biosafety and Modern Biotechnology</td>
<td>2</td>
</tr>
<tr>
<td>BTG 811</td>
<td>Advanced Molecular Biology</td>
<td>3</td>
</tr>
<tr>
<td>BTG 813</td>
<td>Advanced Cell Biology</td>
<td>2</td>
</tr>
<tr>
<td>BTG 814</td>
<td>Biostatistics</td>
<td>2</td>
</tr>
<tr>
<td>BTG 815</td>
<td>Bioinformatics</td>
<td>3</td>
</tr>
<tr>
<td>BTG 841</td>
<td>Intellectual Property Right (IPR)</td>
<td>2</td>
</tr>
<tr>
<td>BTG 894</td>
<td>Research Project/Thesis</td>
<td>6</td>
</tr>
</tbody>
</table>

### Required Courses for Specialization Areas

#### Master of Science (M. Sc.) in Agricultural Biotechnology

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BTG 805</td>
<td>Advanced Plant Biotechnology</td>
<td>3</td>
</tr>
<tr>
<td>BTG 812</td>
<td>Advanced Animal Biotechnology</td>
<td>3</td>
</tr>
<tr>
<td>BTG 815</td>
<td>Advanced Biotechnology in Food Processing</td>
<td>2</td>
</tr>
</tbody>
</table>

#### Electives:

- BTG 826    | Biofuels                                              | 2     |
- BTG 847    | Genetic Resource Conservation and Culture Collection   | 2     |

**N/B:** Students are to offer at least one elective course.

#### Master of Science (M. Sc.) in Industrial Biotechnology

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BTG 819</td>
<td>Advanced Industrial Biotechnology</td>
<td>3</td>
</tr>
<tr>
<td>BTG 820</td>
<td>Advanced Metabolic Engineering</td>
<td>2</td>
</tr>
<tr>
<td>BTG 826</td>
<td>Biofuels</td>
<td>2</td>
</tr>
</tbody>
</table>
**Elective(s):**
- BTG 805 Advanced Plant Biotechnology 3
- BTG 812 Advanced Animal Biotechnology 3

N/B: Students are to offer at least one elective course.

**Master of Science (M. Sc.) in Medical Biotechnology**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BTG 821</td>
<td>Advanced Medical Biotechnology</td>
<td>3</td>
</tr>
<tr>
<td>BTG 820</td>
<td>Advanced Metabolic Engineering</td>
<td>2</td>
</tr>
<tr>
<td>BTG 824</td>
<td>Methods in Proteomics</td>
<td>2</td>
</tr>
</tbody>
</table>

**Elective(s):**
- BTG 812 Advanced Animal Biotechnology 3
- BTG 847 Genetic Resource Conservation and Culture Collection 2

**Master of Science (M. Sc.) in Environmental Biotechnology**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BTG 805</td>
<td>Advanced Plant Biotechnology</td>
<td>3</td>
</tr>
<tr>
<td>BTG 818</td>
<td>Advanced Environmental Biotechnology</td>
<td>3</td>
</tr>
<tr>
<td>BTG 847</td>
<td>Genetic Resource Conservation and Culture Collection</td>
<td>3</td>
</tr>
</tbody>
</table>

**Electives:**
- BTG 819 Advanced Industrial Biotechnology 3
- BTG 826 Biofuels 2

N/B: Students are to offer at least one elective course.

**Master of Science (M. Sc.) in Entrepreneurship Biotechnology**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BTG 835</td>
<td>Managing and Leading Biotechnology Professionals</td>
<td>2</td>
</tr>
<tr>
<td>BTG 837</td>
<td>Creating a Biotechnology Enterprise and Funding a New Venture</td>
<td>2</td>
</tr>
<tr>
<td>BTG 839</td>
<td>Commercializing Biotechnology</td>
<td>2</td>
</tr>
<tr>
<td>BTG 840</td>
<td>Practicum in Biotechnology Enterprise and Entrepreneurship</td>
<td>2</td>
</tr>
</tbody>
</table>

**Elective(s):**
- BTG 805 Advanced Plant Biotechnology 3
- BTG 812 Advanced Animal Biotechnology 3
BTG 815  Advanced Biotechnology in Food Processing  2

**Master of Science (M. Sc.) in Forensic Biotechnology and DNA Fingerprinting**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BTG 848</td>
<td>Forensic Evidence and Criminal Procedures</td>
<td>3</td>
</tr>
<tr>
<td>BTG 849</td>
<td>Instrumentation in Forensic Biotechnology</td>
<td>2</td>
</tr>
<tr>
<td>BTG 850</td>
<td>Scientific Crime Scene Investigation</td>
<td>2</td>
</tr>
<tr>
<td>BTG 851</td>
<td>Forensic DNA Analysis</td>
<td>2</td>
</tr>
<tr>
<td>BTG 852</td>
<td>Scientific Crime Scene Investigation</td>
<td>1</td>
</tr>
<tr>
<td>BTG 853</td>
<td>Advanced Forensic DNA Analysis (Practical)</td>
<td>1</td>
</tr>
<tr>
<td>BTG 897</td>
<td>Forensic Science Seminar</td>
<td>1</td>
</tr>
</tbody>
</table>

**Elective(s):**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BTG 824</td>
<td>Methods in Proteomics</td>
<td>2</td>
</tr>
<tr>
<td>BTG 847</td>
<td>Genetic Resource Conservation and Culture Collection</td>
<td>3</td>
</tr>
</tbody>
</table>

**PhD**

**First Semester of Year One**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SCI 901</td>
<td>Management and Entrepreneurship</td>
<td>2</td>
</tr>
<tr>
<td>BTG 901</td>
<td>Advanced General Biotechnology</td>
<td>4</td>
</tr>
</tbody>
</table>

**Electives (Choose One)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BTG 903</td>
<td>Special Topics in Agricultural Biotechnology</td>
<td>4</td>
</tr>
<tr>
<td>BTG 905</td>
<td>Special Topics in Industrial Biotechnology</td>
<td>4</td>
</tr>
<tr>
<td>BTG 907</td>
<td>Special Topics in Medical Biotechnology</td>
<td>4</td>
</tr>
<tr>
<td>BTG 909</td>
<td>Special Topics in Environmental Biotechnology</td>
<td>4</td>
</tr>
<tr>
<td>BTG 911</td>
<td>Special Topics in Entrepreneurship Biotechnology</td>
<td>4</td>
</tr>
<tr>
<td>BTG 913</td>
<td>Special Topics in Forensic Biotechnology and DNA Fingerprinting</td>
<td>4</td>
</tr>
</tbody>
</table>

**Second Semester of Year One**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SCI 902</td>
<td>ICT and Research Methodology</td>
<td>2</td>
</tr>
<tr>
<td>BTG 902</td>
<td>Recent Advances in Biotechnology</td>
<td>4</td>
</tr>
<tr>
<td>BTG 904</td>
<td>Research Seminar</td>
<td>2</td>
</tr>
<tr>
<td>BTG 906</td>
<td>Biostatistics</td>
<td>2</td>
</tr>
</tbody>
</table>

**Other Years**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BTG 998</td>
<td>Dissertation</td>
<td>12</td>
</tr>
</tbody>
</table>
COURSE DESCRIPTIONS

BTG 801  Advanced Enzyme Biotechnology  2 Units
Extraction, isolation, purification and characterization of enzymes from plant, animal and microbial sources; mechanisms and kinetics of multi-substrate enzyme reactions; enzyme inhibition – kinetics of competitive, non-competitive and uncompetitive inhibitions; role of metal ions in enzyme catalysis; immobilized enzymes – principles and techniques of immobilization; co-immobilization of enzymes and cells; commercial production of enzymes – amylases, proteases and cellulose; enzyme reactors - packed-bed, fluidized-bed, membrane reactors etc.; artificial enzymes, enzyme modifications – site directed mutagenesis; enzyme electrodes and their applications as biosensors in industry, medicine and environmental management; industrial applications of enzymes - food, detergent, energy, waste treatment and medicine.

BTG 803  Bioethics  2 Units
Overview of ethical issues in scientific research; differentiating bioethics from law, culture and religion; social, ethical and legal issues in various biotechnology disciplines – e.g. in medicine, health care and life sciences, products and services: Sperm bank, sperm/ovule donation (sales), designer babies, organ donation/sale, human cloning, genetically modified organism (GMOs), aerosols, insecticides, terminator seed technology and other contemporary issues in biotechnology; regulation of modern biotechnology -biosafety issues; principles of the Universal declaration on Bioethics and Human Rights.

BTG 804  Seminars in Biotechnology  4 Units
This course is designed to give the students the practice in the critical reading of research articles from scientific journals and in the oral and visual presentation of scientific information to their colleagues, and for development of communication skills needed by professionals in the field of biotechnology through student oral presentations and facilitated discussion. Topics should be current scientific advances in biotechnology. Topics are to be presented orally in a forum made of departmental/faculty academic staff, students and interested others. Three copies of such well-articulated work should be bound and presented to the department. Grades will be based on report and presentation.

BTG 805  Advanced Plant Biotechnology  3 Units
Plant cell and tissue culture; tissue culture media (composition, preparation); initiation and maintenance of callus and cell suspension culture, organogenesis;
protoplast isolation, culture and fusion; tissue culture applications - somaclonal variations, germplasm conservation (cryopreservation), production of secondary metabolites from plant cell cultures. Bioreactor systems and models for mass cultivation of plant cells; plant transformation technology - agrobacterium mediated gene transfer; agrobacterium based vectors, viral vectors and their application, direct gene transfer methods; chemical methods, electroporation, microinjection, particle bombardment; genetic engineering of plant for improved productivity and performance - herbicide resistance, insect resistance, disease resistance, virus resistance, stress tolerance (drought, temperature, salt); molecular farming & its applications.

**BTG 806**  **Research Techniques in Biotechnology**  **2 Units**
RT-PCT; Real-Time PCR; Multiplex PCR; vertical gel electrophoresis for proteins; horizontal gel electrophoresis for nucleic acids; Northern and Southern blot analysis for nucleic acids; gel-shift and gel retardation of DNA-protein complex analysis; Western blot analysis for proteins ELISA; transformation, transfection and cloning; rapid amplification of DNA ends (RACE); cell and tissue culture; mass Spectrometry (MALDI-TOF, etc.); chromatographic analysis; microarray and DNA chip analysis of transcriptomes and proteomics.

**BTG 808**  **Biosafety and Modern Biotechnology**  **2 Units**
Overview of Biosafety issues- WHO laboratory safety guidelines – biosafety levels 1-4; biohazards; Cartagena protocols, biosafety of genetically modified organisms (GMOs); basic principles of risk analysis – risk assessment, risk management, risk communication; socio-economic issues biological, international treaties, conventions and protocols; biological & chemical threat response & forensics; science, medicine & policy in biodefense.

**BTG 810**  **Biostatistics**  **2 Units**
Principles of scientific research, concepts of hypotheses formulation and testing, organisation of research and report writing; random variables – discrete and continuous – distribution – distribution function; distribution - Binomial, Poisson and Normal distribution – related properties; sampling distribution - populations and samples - sampling distributions of mean (known and unknown) proportions, sums and differences; estimation - point estimation – interval estimation - Bayesian estimation; test of hypothesis – means and proportions – hypothesis concerning one and two means – Type I and Type II errors; one tail, two-tail tests; tests of significance – Student's t-test, F-test, test; estimation of proportions; curve
fitting - the method of least squares – inferences based on the least squares estimations - Curvilinear regression – multiple regressions – correlation for univariate and bivariate distributions; design of experiment.

**BTG 811  Advanced Molecular Biology  3 Units**
Nucleic acid structure and function; overview of DNA replication, transcription and translation; genetic code and its relationship to cellular functions; gene expression and regulation in prokaryotes and eukaryotes; chromosome organization, chromatin structure, functional genomics, and mechanisms of differential gene expression (DNA methylation, silencers, enhancers, genomic imprinting, and microarray analysis); methods in recombinant DNA technology; methods of gene transfer; vectors - types and characteristics; gene cloning - selection of host cells, preparation of the vector, preparation of DNA to be inserted, preparation of vector-insert construct (rDNA), introduction of the rDNA into the host cells; detection, analysis and stability of cloned genes; expression of cloned genes in yeast & E. coli; applications of gene cloning; transposable elements - types and mechanisms of DNA transposition; DNA libraries - genomic and cDNA libraries; molecular markers and their applications - RFLP, RAPD, AFLP, SSR, SNP; gene addition and subtraction; genetic mapping and genetic finger-printing; recent advances in molecular biology.

**BTG 812 Advanced Animal Biotechnology  3 Units**
Gene transfer methods in animal production: microinjection, embryonic stem cell, etc.; transgenic animal models; animal propagation through artificial insemination, in-vitro fertilization, multiple ovulations with embryo transfer and cloning techniques; marker assisted selection and animal breeding; genetic engineering of farm animals for better growth and production of monoclonal antibodies and animal vaccines; animal diseases and gene therapy; regulation of transgenic animal production and risk assessment of biotechnology in animals.

**BTG 813 Advanced Cell Biology  2 Units**
Overview of plant and animal cells; overview of carbohydrates, lipid and protein metabolism; the cell cycle and senescence; apoptosis; regulation of tissue growth; cell cytoskeleton; cellular adhesion molecules and cell junctions; extracellular matrix; transport mechanisms - membrane transport of small molecules, intracellular transport and modification of proteins, endocytosis; overview of intracellular transport - nuclear and vesicular transport and endocytosis; overview of intercellular and intracellular signaling; the proteasome and ubiquitination; sub-
cellular protein targeting; protein stability and turnover.

**BTG 814  Bioinformatics  3 Units**
Computer science and biotechnology, scripting, use of computer programs, programme installation and navigation, biological databases, data mining, statistical analysis, primer design, sequence analysis, BLAST, measurement of biodiversity (phylogenetic analysis), protein alignment, network computing resources in genome research; comparative genomics and proteomic analysis methods; annotating large genomic DNA sequences; use of computer-based tools for predicting the structure and function of proteins; protein database searching, protein physicochemical properties, secondary structure prediction, and statistical verification.

**BTG 815  Advanced Biotechnology in Food Processing  2 Units**
Quality and storage of specific foods; functional foods; Microbial influence on food production and storage; quality assurance in the industry; biotechnology targets in food processing; improving food quality; genetically engineered enzymes and indigenous fermented foods; optimization of food processing methods; microbial biomass and indigenous fermented foods

**BTG 818  Advanced Environmental Biotechnology  3 Units**
Biological processes for domestic and industrial wastewater treatments; bioremediation technologies-in situ, ex situ, intrinsic and engineered bioremediation, microbial and phytoremediation; metagenomics – PCR directed sequencing; mining and metal biotechnology- copper, lead and iron etc.; microbial transformation, accumulation and concentration of metals, metal leaching and extraction; anaerobic digestion technologies – renewable energy production-biogas (methane), hydrogen, alcohols and algal hydrocarbons; hazardous waste management – xenobiotic compounds, recalcitrant hazardous wastes – biodegradation of xenobiotics, including persistent organic pesticides (POPs); biological detoxification – market for hazardous waste management.

**BTG 819  Industrial Biotechnology  2 Units**
Screening and selection of microorganisms for industrial applications, factors affecting cell growth (temperature, dissolved oxygen concentration, pH, nutrients etc.); cell cultivation systems - batch, fed batch, continuous (chemostat and turbiostat) and cell recycling cultivation of microorganisms; microbial and cellular growth stoichiometry, product formation, reductase balance, energy balance, mass
balance and yield maintenance; growth phases and kinetics, monod equation and estimation of kinetic parameters, mathematical models for cell growth, substrate utilization and product formation in batch, fed batch and continuous culture systems; transport phenomena in bioprocesses – oxygen transport, heat transfer, mixing, etc.; production of various classes of useful metabolites (alcohol, organic acids, amino acids vitamins, enzymes, antibiotics alkaloids, pigments, etc.), single cell protein, fuel alcohol, beer, wine, dairy products, etc.; downstream processes.

**BTG 820 Advanced Metabolic Engineering**  
2 Units  
Bioprocess design; improvement of organisms by metabolic engineering; history and applications of metabolic engineering; metabolic cell analysis; the future of metabolic engineering; designer molecules, cells and microorganisms; techniques for analysis of target cells for genetic manipulation; engineering primary metabolic pathways of industrial microorganisms; use of genome – scale microbial models for metabolic engineering; Lainetmodelling; metabolic control analysis; kinetic modelling.

**BTG 821 Advanced Medical Biotechnology**  
3 Units  
Introduction to pharmaceuticals; sources of drugs - plant, animals, microbes and minerals. Production of biopharmaceuticals: production of recombinant/therapeutic proteins, hormones, cytokines; nucleic acids; drug delivery systems, biomaterials for drug delivery - liposome mediated drug delivery; drug delivery methods for therapeutic proteins; gene therapy and gene delivery methods; immuno enhancing technology; nucleic acid vaccines; therapeutic ribozymes; synthetic drugs; tissue engineering with reference to skin, liver and pancreas; xenotransplantation; antibody engineering; cell adhesion based therapy; drug delivery; analysis of RNA, DNA, protein and metabolites in the diagnosis of inherited and acquired diseases; potential molecular targets in cancer including receptor tyrosine kinases, G-Protein coupled receptors, the TGF beta signaling pathway, cell cycle check points, kinases and phosphatases, chemokine and chemokine receptors, nuclear receptors, suppressor proteins, metastasis and angiogenesis targets, integrins, and matrix metalloproteinases; pre-clinical development of drugs and biologics, clinical development plans; product and assay development and trial design, implementation and management.

**BTG 824 Methods in Proteomics**  
2 Units  
This course covers the analytical methods used to separate and characterize pharmaceutical compounds (predominantly proteins) derived through biotechnology. While emphasis is placed on the general principles and
applicability of the methods, current protocols are discussed, and problem sets representing realistic developmental challenges are assigned. Topics include chromatography (HPLC, SEC, IEC), electrophoretic techniques (2-D gel electrophoresis), spectroscopic methods (UV/Vis, fluorescence, CD), analytical ultracentrifugation, microarrays, mass spectroscopy, amino acid analysis, sequencing, and methods to measure protein-protein interactions.

**BTG 826  Bio Fuels 2 Units**
In this course, students are introduced to the current technologies used in the production of biofuels. These technologies include ethanol distillation using a variety of biomass raw materials such as corn, sugar cane, cellulosic waste materials, and beer waste. Students will also study the methods used to produce biodiesel using agricultural products, such as soybeans and canola, used vegetable oil, and algae. They will also investigate the production of hydrogen from algae and bacterial sources. Students will also study the biodigester and how it can be used to transform waste into energy. In addition to studying the techniques used to produce biofuels, students will also discuss the economic and environmental impacts of using agricultural biomass sources, since many of these are also food sources.

**BTG 827  Essentials of Environmental Toxicology 2 Units**
The effects of toxins, xenobiotics and chemicals such as pesticides and industrial wastes that we are continually being exposed to in our daily lives and its impact on our cells, tissues and organs and how they promote DNA damage, including genotoxic, mutational and malignant effects; quantitative methods of measuring acute and chronic toxicity, contribution of biotransformation in toxicology; importance of microorganisms in metabolizing synthetic organic chemicals; molecular genetics of human cell response to environmental carcinogens; current efforts of science and Biotechnology to remedy these deleterious environmental issues.

**BTG 828  Entrepreneurship in Biotechnology 2 Units**
This course examines the entrepreneurial process in biotechnology from idea generation through economic viability. Biotechnology companies are unique in that they a years-to-decades long period of incubation prior to becoming self-sustaining. Students will be introduced to steps needed to start and nurture a company, and gain an ability to assess the health of potential collaborators, partners or employers. Topics include an overview of the global biotechnology industry, idea generation, business plan formulation, intellectual property protection, funding, personnel management including board composition, regulatory body
interaction, and company exists.

**BTG 835  Managing and Leading Biotechnology Professionals  2 Units**
The roles of managers and leaders within biotechnology companies undergo constant change. Biotechnology managers and leaders must engage in new and innovative problem-solving strategies; lead a diverse and global workforce; develop partnerships with other businesses, customers, and competitors; manage horizontally and across teams; and utilize technology as a competitive advantage. The student is able to address current challenges in his/her own organization and learn methods of implementing change, such as negotiation techniques and motivation. The course includes in-depth discussions of leadership skills, communication, conflict resolution, and goal integration. Students research a biotechnology organization and analyze what is working and not working within the management systems and suggest alternatives.

**BTG 837  Creating a Biotechnology Enterprise and Funding a New Venture  2 Units**
This course provides a foundation to start or help grow a young biotechnology company from inception through early growth. Topics include market assessment of innovative technology, patents and licensing, corporate law, preparing a business plan, raising money from angels and venture capitalists, government grants, strategic alliances, sales and marketing, real estate, human resources, and regulatory affairs. The course provides a survey and overview of the key tasks and challenges typically faced by biotech entrepreneurs, their management team, and directors. Students will prepare a business plan for a biotech start-up and present the plan to a panel of industry experts and financiers. Leaders from our local bioscience community will be guest lecturers for many of the classes. Students will also be introduced to new venture creation, concept pitching and company funding processes from a venture capital perspective. Students will learn how to take a new idea, technology or business model and evaluate its merits for forming a new biotech venture. Students will also engage in projects and real-world experiences to learn how to develop a business plan for presentation to potential investors. The class will also utilize case studies and guest speakers to provide insight into how entrepreneurs successfully pitch their ventures to investors to obtain funding for building new companies.

**BTG 839  Commercializing Biotechnology  2 Units**
This advanced course provides an integrated and practical approach to considering the principal areas of concern an entity faces when commercializing biotechnology, from creating or obtaining the technology through partnering with
others to further develop and commercialize the technology, and finally selling the business or business line that incorporates that technology. The focus of this course is to highlight key junctures in a biotechnology company's evolution; help students identify key financial, management, and business issues at those junctures; and present practical alternatives for students to consider to resolve those issues. This course builds upon Creating a Biotechnology Enterprise and Funding a New Venture, but they are not prerequisites for the course.

**BTG 840 Practicum in Biotechnology Enterprise & Entrepreneurship**  
2 Units  
This course synthesizes the knowledge and skills acquired in the Master's in Entrepreneurship Biotechnology programme, while offering a real world examination of a bioscience organization and the issues it faces. Students will form interdisciplinary teams and work with academic staff and industry professionals on an authentic and current project from a local bioscience public or private company, an entrepreneurial start-up, or a nonprofit organization. This course is only open to students completing the Master's in Entrepreneurship Biotechnology programme.

**BTG 841 Intellectual Property Right**  
2 Units  
Current issues in intellectual property laws; copyright law; patent law; emerging growth companies; intellectual property policy; policy and trade mark law.

**BTG 847 Genetic Resource Conservation and Culture Collection**  
2 Units  
Overview of the status of Nigeria's genetic resources – plants, animals and microorganisms; the importance and usefulness of germplasm; their threat and vulnerability; germplasm collection, conservation and biotechnology; culture collection of microorganisms – algae, fungi, bacteria and viruses; methods of culture collection, preservation and storage; importance of culture collection in agriculture, chemical and pharmaceutical industries.

**BTG 848 Forensic Evidence and Criminal Procedure**  
3 Units  
Law of criminal procedure and rules of evidence in relation to forensic biotechnology, scientific versus legal burdens of proof, legal terminology and trial procedure.

**BTG 849 Instrumentation in Forensic Biotechnology**  
2 Units  
Theory and application of polymerase chain reaction (PCR) machine, Gel Electrophoresis, Gel Documentation, Nano Drop Chromatography, Mass spectrometry and Spectroscopy, Instrumental analysis-Next generation sequencing.
BTG 850  **Scientific Crime Scene Investigation**  2 Units
Theory and techniques of scientific crime scene investigation including: recognition, documentation, collection/sampling, enhancement physical evidence; comprehensive introduction to the use of physical evidence for crime scene reconstruction.

BTG 851  **Advanced Forensic DNA Analysis**  2 Units
Principles and modern procedures used in for analysis of nuclear and mitochondrial DNA evidence; current research and development for forensic DNA instrumentation and application, statistical interpretation of result, application of to data analysis, mock forensic case work.

BTG 852  **Scientific Crime Scene Investigation**  2 Units
Study of methods and techniques of crime scene investigation with emphasis on crime scene reconstruction by use of physical evidence; course will include extensive practical applications with mock crime scenes.

BTG 853  **Advanced Forensic DNA Analysis (Practical)**  1 Unit
DNA finger printing, profiling DNA analysis using bioinformatic tools. An advanced of the methods and techniques of crime scenes investigation with an emphasis on crime scenes reconstruction by use of physical evidence, extensive piratical application with mock crime scenes.

BTG 894  **Research Project/Thesis**  6 Units
Research findings will be undertaken by students in a selected area of biotechnology. Students will be required to survey on the topics, perform experiments and provide a written report at the end of the semester. Students will be externally examined on the project undertaken orally. Projects embarked upon should emphasize biotechnology principles and mechanics.

BTG 901  **Advanced General Biotechnology**  4 Units
Overview of biotechnology; gradient of biotechnology - traditional vs modern biotechnology; principles and applications of biotechnology in various sectors of the economy –industries, agriculture, pharmaceutical, medical, energy, and environment; fermentation technology; tissue culture; temporary immersion bioreactor system, recombinant DNA technology/ transformation – genetic marker assisted selection; bioremediation, phytoremediation, biofertilizers, biopesticides, bioindicators, biosensors; molecular markers; molecular diagnostics; rDNA
vaccines; microbial enzymes, single cell protein, monoclonal antibodies; genetic engineering-transgenic plants & animals; advantages and limitations of genetically modified crops and foods; ethical and safety considerations in biotechnology products and services - bioethics and biosafety; advanced treatment of the principles and applications of PCR, electrophoresis, Southern, Northern, and Western blot methods in DNA and protein identifications.

**BTG 902  Recent Advances in Biotechnology  4 Units**
Trends in biotechnology including but not exclusively: rDNA technology; DNA cloning; DNA mapping & fingerprinting; molecular forensics; molecular markers and their applications in plant and animal breeding- RFLP, RAPD, AFLP, SSR, SNP; multiple ovulation with embryo transfer (MOET); food fortification; artificial cells and artificial organs; gene therapy; tissue engineering; genetic engineering of plants/animals for production of therapeutical proteins and hormones (biopharming); bio-mining; DNA libraries; microarrays & microchips; biological databases and their applications; bioinformatics software and their applications; bio-banking and bio-economy etc.

**BTG 903  Special Topics in Food and Agricultural Biotechnology  4 Units**
Bio-fortification; Biotechnological methods for creating and improving new food and beverage products – fermentation, food additives, and genetically modified foods; food contaminants; deterioration and spoilage agents of foods and prevention. Genetic engineering of plants for improved productivity and performance - herbicide resistance, insect resistance, disease resistance, virus resistance, stress tolerance (drought, temperature, salt); gene transfer methods in animal production - agrobacterium mediated gene transfer; plasmid and viral vectors for plant gene transfer; direct gene transfer methods; chemical methods, electroporation, microinjection, particle bombardment; organogenesis; protoplast isolation and culture; tissue culture and its applications; genetic engineering of farm animals for better growth and production of monoclonal antibodies and animal vaccines; gene transfer methods in animal production; embryonic stem cell; transgenic animal models; animal propagation through artificial insemination - in-vitro fertilization, multiple ovulations with embryo transfer and cloning techniques;

**BTG 904  Research Seminar  2 Units**
The student is expected to make an oral/visual presentation of scientific information drawn from his/ her research topic in a forum made of
departmental/faculty academic staff, students and the interested populace. Three copies of such well-articulated work should be bound and presented to the Department. Grades will be based on written report and presentation.

**BTG 905  Special Topics in Industrial Biotechnology  4 Units**
Screening and selection of microorganisms for industrial applications, factors affecting cell growth (temperature, dissolved oxygen concentration, pH, nutrients etc.); cell cultivation systems- batch, fed batch, continuous (chemostat and turbiostat) and cell recycling and cultivation of microorganisms; microbial and cellular growth stoichiometry; product formation, reductase balance, energy balance, mass balance and yield maintenance; growth phases and kinetics, Monod equation and estimation of kinetic parameters, mathematical models for cell growth, substrate utilization and product formation in batch, fed batch and continuous culture systems; transport phenomena in bioprocesses – oxygen transport, heat transfer, mixing, etc.; production of various classes of useful metabolites (alcohol, organic acids, amino acids vitamins, enzymes, antibiotics alkaloids, pigments, etc.), single cell protein, fuel alcohol, beer, wine, dairy products; downstream processes; bioreactors and bioreactor designs for optimal bioprocesses.

**BTG 907  Special Topics in Medical Biotechnology  4 Units**
Gene therapy and gene delivery methods; Anti-sense RNA and its biomedical importance; biomedical applications of animal cell, tissue and organ cultures; biotechnological production of vaccines; therapeutic ribozymes; tissue engineering with reference to skin, liver and pancreas; xenotransplantation; antibody engineering; cell adhesion based therapy; analysis of RNA, DNA, protein and metabolites in the diagnosis of inherited and acquired diseases; biopharmaceuticals; production of biopharmaceuticals - production of therapeutic proteins, hormones, cytokines - interferons, interleukins I & II, tumour necrosis factor (TNF); nucleic acids; Drug delivery systems, biomaterials for drug delivery: liposome mediated drug delivery; drug delivery methods for therapeutic proteins. Potential molecular targets in cancer including receptor tyrosine kinases, G-Protein coupled receptors, the TGF beta signaling pathway, cell cycle check points, kinases and phosphatases, chemokine and chemokine receptors, nuclear receptors, suppressor proteins, metastasis and angiogenesis targets, integrins, and matrix metalloproteinases. Pre-clinical development of drugs and biologics, clinical development plans; product and assay development and trial design, implementation and management.

**BTG 909  Special Topics in Environmental Biotechnology  4 Units**
Biological processes for domestic and industrial wastewater treatments; aerobic systems – activated sludge process, trickling filters, biological filters, rotating biological contractors (RBC), fluidized bed reactor (FBR), expanded bed reactor,
inverse fluidized bed biofilm reactor (IFBBR), packed bed reactors, air-sparged reactors; anaerobic wastewater treatment – contact digesters, packed column reactors, bioremediation – constraints and priorities of bioremediation, biostimulation of naturally occurring microbial activities, bioaugmentation, in situ, ex situ, intrinsic and engineered bioremediation; solid phase bioremediation; land farming; prepared beds, soil piles; Phytoremediation; composting; bioventing and biosparging; liquid phase bioremediation – suspended bioreactors, fixed biofilms reactors; mining and metal biotechnology with special reference to copper and iron; microbial transformation, accumulation and concentration of metals; metal leaching and extraction; renewable energy-methane (biogas), hydrogen, alcohols and algal hydrocarbons (bioenergy); hazardous waste management – xenobiotic compounds, recalcitrant hazardous wastes – biodegradation of xenobiotics; biological detoxification-hazardous waste management; air pollution, ozone depletion and global warming.

BTG 911  Special Topics in Entrepreneurship Biotechnology       4 Units
This course will explore how biotechnology innovators are solving social issues including developing medical diagnostics, discovering effective and safer medicine, producing cleaner energy, remediating environmental contamination and improving crop yields. Students will think broadly in terms of roles required in tackling these social, economic, health and environmental issues and how they can add value to society. Social entrepreneurship principles and practices in a range of sectors including corporate social responsibility and public value missions in emerging markets will be treated. Students will have opportunities to define their role in advancing biotechnology as it relates to the top global challenges.

BTG 913  Special Topics in Forensic Biotechnology and DNA Fingerprinting        4 Units
This course will explore forensic science, forensic biotechnology, forensic genetics, forensic agriculture, DNA fingerprinting/DNA profiling/DNA testing; ethics, rules and procedures; Restriction fragment length polymorphism (RFLP); Random amplified polymorphic DNA (RAPD); Amplified fragment length polymorphism (AFLP); Microsatellites; PCR amplifications; Single nucleotide polymorphism (SNuPs); genetic linkage mapping; physical mapping of the genome; BAC end sequencing; extract DNA from blood and biological material; and other tests for DNA; DNA Testing Tool, Kits and Equipment etc.

BTG 998  Dissertation       12 Units
Students will undertake significant research project with supervision.
## STAFF LIST IN BIOTECHNOLOGY

<table>
<thead>
<tr>
<th>Staff</th>
<th>Qualification</th>
<th>Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. Christie Oby Onyia</td>
<td>B.Sc. Zoology, M.Sc. Applied Parasitology and Entomology, PGD Environmental Science and Technology, PhD Biotechnology</td>
<td>Senior Lecturer (H.O.D)</td>
</tr>
<tr>
<td>Prof. Joseph I. Chidobem</td>
<td>B.Sc. Zoology, M.Sc., PhD Applied Hydrobiology</td>
<td>Professor</td>
</tr>
<tr>
<td>Prof. Caleb Eziuche Okezie</td>
<td>B.Sc. Botany, MSc, PhD Plant Phy/Biotechnology</td>
<td>Professor</td>
</tr>
<tr>
<td>Prof. James Chukwuma Ogbonna</td>
<td>B.Sc. (Botany), M. Eng., PhD</td>
<td>Professor</td>
</tr>
<tr>
<td>Prof. Benjamin Nwabueze Marire</td>
<td>DVM, M.Sc. Theriogenology, Fellowship Postgrad Coll. of Vet Surgeons - FVSN</td>
<td>Professor</td>
</tr>
<tr>
<td>Prof. George Nkem Ude</td>
<td>B.Sc. Botany, MSc, PhD Plant Breeding and Molecular Biology</td>
<td>Visiting Professor</td>
</tr>
<tr>
<td>Dr. Uchechukwu Enyidi</td>
<td>B.Sc. Zoology, M.Sc. Fisheries Biology and Hydrobiology, PhD Fisheries and Aquaculture</td>
<td>Senior Lecturer</td>
</tr>
<tr>
<td>Akaniero-Ejim E. Nneoma</td>
<td>B.Sc. Biochemistry and Microbiology, MSc. Pharmacology and Biotechnology</td>
<td>Lecturer II</td>
</tr>
<tr>
<td>Ozokonkwo Onyiye</td>
<td>B.Sc., MSc. (Medical Microbiology)</td>
<td>Lecturer II</td>
</tr>
</tbody>
</table>
DEPARTMENT OF COMPUTER SCIENCE AND MATHEMATICS
POSTGRADUATE PROGRAMME IN COMPUTER SCIENCE

1.0 Introduction
The academic MSc. programme hinges on the maxim that teaching computer science and learning computer science mean doing computer science. The ground for doing computer science is research and development of successful theories.

The academic MSc. Programme is therefore designed to impart both sound theoretical and practical knowledge of many branches of computer science to the students. The programme aims at inculcating in the students the skills and intellectual training needed for taking up careers in the theory and application of computer science. The areas of specialization and research in the programme include the following: theory of computation, software engineering, artificial intelligence, computer networking and database systems.

All students are required to take up to three core courses. Students are also required to take a number of courses in the specialized areas of their choice on the advice of their supervisor/academic adviser and the departmental graduate studies committee. The MSc. examination consists of a written paper on each course taken and research work presented in the form of a dissertation.

The training not only increases the student's skills, intellectual and professional competence for making a career as a computer scientist, it also prepares the student for careers as lecturer and researcher in the universities and other tertiary educational institutions, and industrial research institutes. It also prepares the students for careers as system engineer, developer, webmaster in government departments such as the Central Bank of Nigeria and in private organisations such as the mobile telephone networks.

2.0 Mission of the University
GO-university dedicates itself to imparting quality education and aims at inculcating in the students a strong personality and promotion of religions, cultural and epistemological dialogue.

2.1 Vision of the University
GO-university's vision is to produce graduates who will be outstanding in learning, balanced in character and personality and ready to pursue epistemic unity in all ramifications.
2.2 Philosophy
The philosophy of GO-university is based on the nature of human person as a social being, as dialogue-seeking being from this point of view. The university understands education as the dialogical process of acquisition and dissemination of knowledge. Thus the philosophy of the computer science programme is based on the GO-university philosophy of “education as dialogical process of acquisition and dissemination of knowledge”. The programme is designed towards producing graduates with adequate and broad understanding of the basic concepts or computer science complemented with application-oriented specializations that will advance the productive capacity of these graduates. The programme also aims at training personnel to the highest academic standards in the provision of a firm basis for creative work in the fields of computer science and technology and offering a critical background for several other professional, applied science disciplines.

2.3 Objectives
The academic M.Sc. programme is designed to offer a variety of experiences in computer science with particular emphasis on certain fields which are relevant to economic and technological development of the country. Specifically, it is intended to meet two main objectives:

(a) Training in-depth in techniques beyond first degree level for those interested in and capable of pursuing an academic career in research and or teaching.

(b) Training in-depth in techniques beyond first degree level for those that envisage a career in the industry or government services, particularly in such areas as general administration, netcentric including cloud computing, electronic commerce and controls, computer network security, etc.

(c) To produce graduates of international standard with appropriate knowledge and skills in their field of study at the graduate levels who will be highly employable and able to employ others;

3.0 Admission Requirements
To be admitted into the Masters degree programme a candidate must possess
(I) a minimum of second class honours lower division degree with at least a 3.50 CGPA on a 5-point scale in computer science, electronics or related discipline from a recognized university, or

(ii) appropriate PGD of a recognized university with at least a 3.50 CGPA on a 5-point scale.
(iii) a HND or third class honours degree with at least a 3.50 CGPA on a 5-point scale in Computer Science from a recognized institution and a PGD in computer science, electronics or related discipline from a recognized university with at least a 3.50 CGPA on a 5-point scale.

3.1 Examination Processes
The lecturer of each course is responsible for drawing questions with a marking scheme in the course. All examination papers and marking schemes are subjected to internal moderation by the Academic Board of the department.

3.2 Project Supervision
The grading is in two parts:
(a) Written project
(b) Oral defense of project
Every project is assessed by the main supervisor and another lecturer. The average of the two is used as the final score.

3.3 Grading of Projects
Dissertation 70%
Defense 30%

Supervisor's grading must emphasize the following:
I. Criteria of hard work
ii. Obedience in complying with instruction
iii. Willingness to learn

(a) Dissertation
Grading of project dissertation shall be done using the following guidelines:
Introduction 10 marks
Theoretical consideration 20 “
System development 30 “
Use of English 10 “
Sub Total 70 marks

(b) Defence
Oral defense of project will be graded using the following guidelines:
i. Mastery of subject 10 marks
ii. Use of English 5 “
iii. Contribution to knowledge  5“
iv. Ability to develop and carry out independent work  10“
Sub-Total  30marks

3.4 Assessment tests
i. Regular continuous assessment tests are conducted, usually on an impromptu basis and properly supervised to ensure that students attend lectures and are fully prepared all the time, rather than waiting for the mid and end semester examinations. ii. A minimum of 3 continuous assessment tests are given staggered as follows:
   1st test around the first four weeks of lecture
   2nd test during the mid-semester period
   3rd test about 3 weeks to the end of semester
iii. The continuous assessment tests attract a total of 30 (out of 100) marks for the semester
iv. All graded scripts are returned to students to enable them learn from their mistakes.

An external examiner from a recognized university may participate in the conduct of examinations and must participate the determination of the overall results in accordance with the general regulations relating to the duties of the external examiner.

3.5 Make-up Tests
Make-up test and examination are only allowed for students who missed such a test and/or examination for reasons that are condonable as prescribed by Senate. These include cases of illness by students, backed-up with medical reports from GO-university medical centre.

The student's registration for MSC programme shall lapse if after the maximum duration of the programme the candidate has not presented himself for examination.

3.6 Graduation Requirement
Conditions governing the award of M.Sc.
(a). Master of Science students must pass 36 credit units with core courses
accounting for 30 of the credit units. A student shall present at least one seminar. On completion of the courses, each candidate will be required to submit an acceptable dissertation which must be defended before a panel of internal and external examiners.

3.7 Registration Procedure
Students shall normally complete registration for courses for the semester not later than two weeks after the start of the semester. A student may not withdraw from a course after five weeks of lectures in a given semester without permission from the Dean of Postgraduate School.

A student who withdraws after this time or who fails to seek for permission from the Dean shall be deemed to have failed that course.

A student who fails to sit for more than two courses at the end of a given semester shall be deemed to have withdrawn voluntarily from the programme.

(i) Good Standing
To be in good standing, a student must in each semester have a Cumulative Grade Point Average (CGPA) of not less than 3.00

(ii) Withdrawal
 Candidates with less than 3.00 CGPA shall remain in the programme for the 1st semester but shall be withdrawn if he/she fails to attain 3.00 CGPA at the end of the second semester.

(iii) Attendance
In order to be eligible for examination in a particular course, a student shall have attended a minimum of 75% of the total periods of formal instructions for the course.

3.8 Duration of programme
The duration for a MSC programme shall be:

**FULL-FIME:**
- A minimum of 3 Semesters
- A maximum of 5 Semesters

**PART-TIME:**
- A minimum of 5 Semesters
- A maximum of 8 Semesters
Course Outlines

Core Courses
First Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSC 801</td>
<td>Operating Systems</td>
<td>3</td>
</tr>
<tr>
<td>CSC 804</td>
<td>Software Engineering</td>
<td>3</td>
</tr>
<tr>
<td>CSC 808</td>
<td>Advanced Computer Architecture</td>
<td>3</td>
</tr>
<tr>
<td>SCI 801</td>
<td>Management and Entrepreneurship</td>
<td>2</td>
</tr>
</tbody>
</table>
**Total**    | **11**                                      |       |

Second Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>SCI 802</td>
<td>ICT/Research Methodology</td>
<td>2</td>
</tr>
<tr>
<td>CSC 803</td>
<td>Advanced Computer Algorithms</td>
<td>3</td>
</tr>
<tr>
<td>CSC 805</td>
<td>Computer Communication and Networks</td>
<td>3</td>
</tr>
<tr>
<td>CSC 824</td>
<td>Programming Languages</td>
<td>3</td>
</tr>
</tbody>
</table>
**Total**    | **11**                                      |       |

Third Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSC 800</td>
<td>Research Projects/Dissertation</td>
<td>6</td>
</tr>
<tr>
<td>CSC 828</td>
<td>Seminar</td>
<td>2</td>
</tr>
</tbody>
</table>
**Total**    | **8**                                       |       |

Courses by Specialization

SOFTWARE ENGINEERING
First Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSC 831</td>
<td>Software Quality Assurance</td>
<td>3</td>
</tr>
</tbody>
</table>

Electives

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSC 806</td>
<td>Object Oriented Programming</td>
<td>3</td>
</tr>
<tr>
<td>CSC 807</td>
<td>Advanced Computer Graphics</td>
<td>3</td>
</tr>
<tr>
<td>CSC 814</td>
<td>Advanced Topics in Computer Science</td>
<td>3</td>
</tr>
<tr>
<td>CSC 815</td>
<td>Internet Technology</td>
<td>3</td>
</tr>
</tbody>
</table>
**Total**    | **6**                                       |       |

Second Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSC 809</td>
<td>Database Systems</td>
<td>3</td>
</tr>
</tbody>
</table>
### Electives

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSC 820</td>
<td>Electronic Commerce Technologies</td>
<td>3</td>
</tr>
<tr>
<td>CSC 822</td>
<td>Design of Complex Software Systems</td>
<td>3</td>
</tr>
<tr>
<td>CSC 840</td>
<td>Decision Support Systems</td>
<td>3</td>
</tr>
<tr>
<td>CSC 858</td>
<td>Advanced Software Engineering</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td><strong>6</strong></td>
</tr>
</tbody>
</table>

### ARTIFICIAL INTELLIGENCE

#### First Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSC 810</td>
<td>Artificial Intelligence</td>
<td>3</td>
</tr>
</tbody>
</table>

### Electives

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSC 802</td>
<td>Theory of Computation</td>
<td>3</td>
</tr>
<tr>
<td>CSC 809</td>
<td>Database Systems</td>
<td>3</td>
</tr>
<tr>
<td>CSC 815</td>
<td>Internet Technology</td>
<td>3</td>
</tr>
<tr>
<td>CSC 839</td>
<td>Control Systems and Robotics</td>
<td>3</td>
</tr>
<tr>
<td>CSC 843</td>
<td>Agent Technology</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td><strong>6</strong></td>
</tr>
</tbody>
</table>

#### Second Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSC 818</td>
<td>Introduction to Quantum Computing</td>
<td>3</td>
</tr>
</tbody>
</table>

### COMPUTER NETWORKS

#### First Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSC 845</td>
<td>Network Design</td>
<td>3</td>
</tr>
</tbody>
</table>

### Electives

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSC 815</td>
<td>Internet Technology</td>
<td>3</td>
</tr>
<tr>
<td>CSC 817</td>
<td>Digital Signal Processing</td>
<td>3</td>
</tr>
<tr>
<td>CSC 819</td>
<td>Mobile and Adaptive Systems</td>
<td>3</td>
</tr>
<tr>
<td>CSC 825</td>
<td>Digital Picture Processing</td>
<td>3</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Units</td>
</tr>
<tr>
<td>------------</td>
<td>--------------------------------------------------</td>
<td>-------</td>
</tr>
<tr>
<td>CSC 827</td>
<td>Advanced Computer Vision</td>
<td>3</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>6</td>
</tr>
</tbody>
</table>

**Second Semester**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSC 842</td>
<td>Network Administration and Management</td>
<td>3</td>
</tr>
</tbody>
</table>

**Electives**

*Choose any One*

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSC 837</td>
<td>Parallel and Distributed Computing</td>
<td>3</td>
</tr>
<tr>
<td>CSC 844</td>
<td>Advanced Topics in Computer Network</td>
<td>3</td>
</tr>
<tr>
<td>CSC 846</td>
<td>Network Programming</td>
<td>3</td>
</tr>
<tr>
<td>CSC 848</td>
<td>Network Performance Evaluation</td>
<td>3</td>
</tr>
<tr>
<td>CSC 852</td>
<td>Network Security</td>
<td>3</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>6</td>
</tr>
</tbody>
</table>

**THEORETICAL COMPUTER SCIENCE**

**First Semester**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSC 802</td>
<td>Theory of Computation</td>
<td>3</td>
</tr>
</tbody>
</table>

**Electives**

*Choose any One*

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSC 814</td>
<td>Advanced Topics in Computer Science</td>
<td>3</td>
</tr>
<tr>
<td>CSC 815</td>
<td>Internet Technology</td>
<td>3</td>
</tr>
<tr>
<td>CSC 819</td>
<td>Mobile and Adaptive Systems</td>
<td>3</td>
</tr>
<tr>
<td>CSC 820</td>
<td>Electronic Commerce Technologies</td>
<td>3</td>
</tr>
<tr>
<td>CSC 839</td>
<td>Control Systems and Robotics</td>
<td>3</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>6</td>
</tr>
</tbody>
</table>

**Second Semester**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSC 812</td>
<td>Operations Research</td>
<td>3</td>
</tr>
</tbody>
</table>

**Electives**

*Choose any One*

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSC 813</td>
<td>Compiler Design and Construction</td>
<td>3</td>
</tr>
<tr>
<td>CSC 822</td>
<td>Designing Complex Software Systems</td>
<td>3</td>
</tr>
<tr>
<td>CSC 823</td>
<td>Computer Organization</td>
<td>3</td>
</tr>
<tr>
<td>CSC 836</td>
<td>Machine Learning</td>
<td>3</td>
</tr>
<tr>
<td>CSC 838</td>
<td>Neural Network</td>
<td>3</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>6</td>
</tr>
</tbody>
</table>
COURSE DESCRIPTION

SCI 801  Management and Entrepreneurship        2 Units
The course will cover business environment, general management, financial management, entrepreneurship development, feasibility studies, marketing and manageral problem solving.

SCI 802  ICT and Research Methodology          2 Units
This course should cover essentials of Spreadsheets, Internet technology, Statistical Packages, Precision and accuracy of estimates, Principles of scientific research, Concepts of Hypothesis formulation and testing, Organization of Research and Report Writing.

CSC 800  Research Project/Dissertation         6 Units
With a high degree of originality expected of the student, each project is supposed to cover a review of current activity in the area of research, and be acquainted with latest publications in the candidate's field. Each student should also be free to work on any topic given to him by supervisor in any area of computer science. Students will also be required to demonstrate additional contribution he/she has made.

CSC 801  Operating Systems                     3 Units
Structural design aspects of an operating system: process model, inter-process communication, synchronization mechanism, resource management, and scheduling. Protection issues, Implementation issues of modern operating systems. Distributed operating systems. Deadlock detection, recovery, and avoidance. Case studies. Project(s).

CSC 802  Theory of Computation                 3 Units
CSC 803  Advanced Computer Algorithms  3 Units
Review of data structures; linear data structures, hashing, trees, graphs, recursion. Complexity classes; empirical measurements of performance; time and space tradeoffs analysis. Algorithmic strategies: Brute-force algorithms; divide-and-conquer; backtracking; branch-and-bound; minimum spanning tree, heuristics; pattern matching and string/text algorithms; numerical approximation algorithms. Tractable and intractable problems.

CSC 804  Software Engineering  3 Units

CSC 805  Computer Communications and Networks  3 Units
Channels and channel capacity; introduction to information theory; sharing network resources: telecommunication history; circuit switching and packet switching; multiplexing; FDM, TDM, statistical
multiplexing; virtual circuits and datagrams; advantages and disadvantages; sharing the medium: Aloha, CSMA (persistent and non-persistent), CSMA-CD, token passing, and redundancy; hamming theory and codes; CRCs, ARQ protocols; CR selective retransmission and flow control; internet working and internet: ISPs, datagram forwarding; the DNS; IPv4; addressing and forwarding; encapsulation and address resolution; TCP and UND; ports and congestion controls; example applications; modeling data networks: services and protocols; layered architectures; the OSI 7-layer model; introduction to queue theory; physical media; LANs and bridging; WANs and point-to-point links; routing; addressing and routing in the internet; end-to-end communication in the internet; and application protocols. Cyber space technology: Cyber Crime, Cyber Security and models of Cyber Solution; IPv6; 4GPP and LTE.

**CSC 806 Object Oriented Programming** 3 Units
Procedural programming and its limitations. Software development methodology: Fundamental design concepts and principles; structured design; testing and debugging strategies; test case design; programming environments; testing and debugging tools. Basic concepts and formal methods of Object Oriented Programming (OOP). Study of the features of a popular Object Oriented Programming Language such as JAVA, Visual Basic and C++. Applications of OOP in systems software development.

**CSC 807 Advanced Computer Graphics** 3 Units
Prerequisites Knowledge of C programming language.
Reflection models: Texture and models, texture and environment mapping, advanced ray tracing, radiosity method, volume rendering, advanced modeling techniques, simulation and animation.

**CSC 808 Advanced Computer Architecture** 3 Units
Design of advanced computers for parallel processing; emphasis on the overall structure; interconnection networks; including single-stage and
multi-stage structures; shared memory and message passing architectures; control-flow and demand-driven programming; multithreaded architectures; fine-grain and coarse-grain parallelism; SIMD and MIMD; processor designs for parallel operation.

**CSC 809  Database Systems  3 Units**
A brief introduction to database concepts: File systems and database, and the relational database model; design concepts and implementation: entity relationship (E-R) modeling normalization of database tables and structured query language; database design and implementation. Transaction management and concurrency control and distributed database management systems, database, privacy, security, failure and recovery. Object-oriented database, client/server systems; data warehouse; data mining; databases in electronic commerce; web database development and database administration.

**CSC 810  Artificial Intelligence  3 Units**
Introduction to basic programming techniques of artificial intelligence (AI). Domain analysis representation of knowledge and strategies, control on inference and search; development of interactive intelligence CAI programs, the role of analogical reasoning: the main contents are symbol manipulations and AI problem solving techniques. Topics include LIEP primitives LISP objects and evaluation, recursion and interaction and data abstractions (association list properties and DESTRUCT), macros, object centered programming, symbolic pattern matching and bane solving methods. Resolution and natural deduction, Knowledge engineering.

**CSC 811  Expert Systems  3 Units**
Review of Artificial Intelligence and its place in experts system. Introduction to expert systems and expert support system. Characteristics of experts systems: knowledge-based systems. Types of expert systems.
CSC 812  Operations Research  
Introduction to Operations research. Treatment of some of these topics and the applications of computer in their solution: Decision Theory, Game Theory, Inventory Control, Linear Programming Problems (Simplex Method of Solution), Transportation Problems, Assignment problems, Project/Network Analysis, Forecasting, Queuing Theory, Simulation.

CSC 813  Compiler Design and Construction  
Anatomy of a compiler, lexical analysis (scanning): syntax analysis (parsing): syntax-directed translation; semantic analysis, intermediate code generation; code generation and optimization. Advanced topics include garbage collection; dynamic data structures, points analysis, aliasing; code scheduling, pipelining; dependence testing; loop level optimization superscalar optimization; profile-driven optimization, debugging support; incremental parsing; type inference; advanced parsing algorithms; practical attribute evaluation; functional in-lining and partial evaluation.

CSC 814  Advanced Topics in Computer Science  
Quick review of the fundamental technologies: parsing, bytecodes, interpretive systems in general, and run-time support, especially memory management. Analysis and classification of existing embedded languages according to the language paradigms used and the features included, without reference to the implementations. Analysis of the implementations of existing embedded languages. Review and study of topical issues and current development in the area of Computer Science.

CSC 815  Internet Technology  
Introduction to Internet, standards and specifications; survey of contemporary internet technologies; Current Internet tools; Designing and publishing a web server; www programmed markup languages: Using alternative protocols in www, Adding multimedia features to
www; Server side programming, client programming and database programming for the web; Security and Privacy.

**CSC 816  Human Computer Interaction  3 Units**
Positive and negative effects of the computers and ICT on human beings and societies. Computing as a profession, organization using computers, sociological impacts of Computers individual and computers, computer as audit tool, computers in banking, computer based information systems and telecommunications, companies in consultancy servers, design and construction, education, government insurance, stock-brokerage, legal and medical professions.

**CSC 817  Digital Signal Processing  3 Units**
Introduction; brief review of analogue and digital signal processing systems, discrete time linear time-invariant signal processing systems; design of finite impulse response digital filters, introduction to z-transforms and infinite impulse response type discrete time filters design of infinite impulse response type digital filters using analogue filter approximations; digital processing of analogue signals and other data, introduction to the discrete Fourier transform.

**CSC 818  Introduction to Quantum Computation  3 Units**
The theory of quantum information and quantum computation; classical information theory, compression of quantum information, transmission of quantum information through noisy channels, quantum error element, quantum cryptography, classical complexity theory, quantum complexity; efficient quantum algorithms; quantum error-correcting codes, fault-tolerant quantum algorithms; quantum error-correcting codes, fault-tolerant quantum computation; and physical implementations of quantum computations.

**CSC 819  Mobile and Adaptive Systems  3 Units**
Introduction and overview; properties of wireless: PANs and WANs: Ad-hoc and infrastructure networks; physical constraints and limitations (transmission and reception), network structures and
architectures, including hand-off and mobility support at the physical/link level; example technologies at the physical/link layers; PANS Bluetooth, LANs IEEE802.11 HiperLAN, basicGSM and GPRS network structures and protocol architectures, next generation wireless overview including UMTs, IMT-2000 and W-CSMA; mobile IP; mobilePv4 and mobileIPv6, problems. With routine, quantity of service and security, overview of use of intelligence in mobile systems and power management issues; file systems: CODA and the like and mobile infrastructures support. Adaptive and re-configurable systems, mobile multimedia and its relationship to proxying, context sensitive applications, ubiquitous computing, pervasive computing and ambient networking, overlay networks and vertical hand-offs, programmable networking and applications for mobile systems, code mobility and control/signaling.

**CSC 820   Electronic Commerce Technologies   3 Units**

Introduction: The Sociology and Psychology of Electronic Commerce, Building recognizing, managing and making use of online communities in web based environment, theories of online presence and cooperation, a guide to e-commerce in general; how to differentiate e-commerce today from e-commerce yesterday, current problems of e-commerce and interesting solutions and approaches to these problems, a guide to knowledge commerce, understanding knowledge and commodity and as a process, and representing it in web-based environment, web architecture: structural design of e-commerce systems, claimed server architecture, two-, three-tier design, server farms, scalability, integration of legacy systems, Java Beans, enterprise Java Beans, and Java server pages, particular problems posed by 24/7 operations and open user community; case-interchange; exchanging data over the internet. XLM, style sheet, document type definition, metadata and document discovery, interchange of processes using WSDL and SOAP; usability: user-interfaces designs for websites, use of human-computer interaction methodologies in evaluating user-interfaces; electronic payments; technologies that support the
processing of electronic payments, characteristics and properties of electronic payment systems; mass personalization and the virtual customer's automation of the customer-relationship, use of data to customize the web experience, cookies and their risks, rule-based filtering, implicit profiling, collaborative filtering.

**CSC 821  Bioinformatics**  3 Units
Study of forensics; principles and practice of identification; pattern-matching of recognition, computer forensics: pattern recognition, data mining, machine learning algorithms and visualization, sequence alignment, application to biological sciences, DNA-gene finding, genome assembly, drug design, drug discovery, protein structure alignment, protein structure prediction, prediction of gene expression and protein – protein interaction, genome-wide association studies and the modeling of evolution.

**CSC 822  Designing Complex Software Systems**  3 Units
Designing new computational systems and the software that drives them is both hard and interesting. One important style of computer science research, often called experimental systems research, revolves around such design activities. Research in this style seeks to advance our understanding of, and our ability to create, general computer systems that support the development and use of more domain-specific applications.

**CSC 823  Computer Organization**  3 Units
Study of representative digital computer organization with emphasis on control unit logic, input/output processors and devices, asynchronous processing, concurrency and parallelism. Memory hierarchies.

**CSC 824  Programming Languages**  3 Units
Comparative study of the organization and implementation of a variety of programming languages and language features. Design principles
are explored and applied in a history review of major languages. Procedural, functional, logic-based, object-oriented and languages. Research issues such as polymorphism, formal semantics and verification, exploration in depth.

CSC 825  **Digital Picture Processing**  3 Units
Basic concepts of image formation and image analysis: imaging geometry, sampling, filtering, edge detection, Hough transforms, region extraction and representation, extracting and modeling three-dimensional objects. Students will be assigned analytical and programming assignments to explore these concepts.

CSC 826  **Advanced Artificial Intelligence**  3 Units
In depth study of a few major areas historically considered to be part of artificial intelligence. In particular, detailed coverage will be given to the design considerations involved in the following applications: automatic theorem proving, natural language understanding and machine learning.

CSC 827  **Advanced Computer Vision**  3 Units
Analysis of advanced topics in automated reconstruction of imaged objects and computer interpretation of imaged objects; techniques for three-dimensional object reconstruction; computing motion parameters from sequences of images; computational frameworks for vision tasks such as regularization, and stochastic relaxation; approaches for autonomous navigation. Depth image analysis; novel imaging techniques and applications; and parallel architectures for computer vision.

CSC 828  **Seminar**  2 Units
Each student is expected to present at least two seminars to staff and colleagues on the progress made so far in the candidate's project.
CSC 831  Software Quality Assurance  3 Units
Quality and the quality system, standards and procedures, Technical activities, components, Continuous Improvement, Software Tasks, Management responsibility, Quality System, Contract Review, Document Control, Product identification and trace ability.

CSC 836  Machine Learning  3 Units
class, finite covering, margin-based bounds on risk, maximal margin classifier.

**CSC 837 Parallel and Distributed Computing 3 Units**

**Introduction:** Forms of Computing; Monolithic, Distributed, Parallel, Cooperative, Computational demands of parallel processing, Flynn's classification, Terminology. **Parallel computer architectures:** Classification, Interconnection networks, Vector computers, Shared memory parallel computers, Cache coherence, Distributed shared memory parallel computers, Message passing parallel computers, Cluster of workstations. **Parallel programming models:** Shared memory model, Message passing model - Synchronous and Asynchronous message passing models, Leader-Election algorithm, Breadth-First Search. Shortest Paths, Broadcast and Converge cast, Data Parallel model. **Parallel algorithms:** Models of parallel computation including PRAM - CRCW, CREW, ERCW, EREW models, Design and analysis of Parallel algorithms: Automatic vs. Manual Parallelization, Understand the Problem and the Program, Partitioning, Communications, Synchronization, Data Dependencies, Load Balancing, Granularity, I/O, Limits and Costs of Parallel Programming, Performance. Analysis and Tuning, Parallel Examples, Array Processing Matrix multiplication, Sorting, Searching, Merging, Minimum spanning tree, Prime numbers. **Distributed computing:** Introduction to Distributed Programming - *System Models* - Architectural models - Client-server model, Peer-to-peer model - Variations of the above models - Distributed computing paradigms, *Inter process communication* - The API for the Internet protocols, External data representation and marshalling, Group communication - Case study: inter process communication in UNIX, Distributed file systems. **Distributed programming algorithms:** Fundamental issues and concepts - Synchronization, Mutual Exclusion, Termination Detection, Clocks, Event ordering, Locking - Distributed Computing Tools & Technologies (CORBA, JavaRMI, Web Services). **Emerging areas of parallel and distributed systems:** Grid computing, Peer-to-
peer systems, Overlay networks, Edge computing and Ad-hoc networks.

**CSC 838 Neural Networks** 3 Units

**CSC 839 Control Systems and Robotics** 3 Units
CSC 840   Decision Support Systems    3 Units

CSC 842   Network Administration and Management    3 Units
The rules governing IP address classes and netmasks, Configuring the resolver library to arrange for TCP/IP name service, Bringing interfaces up and down, and set their IP addresses and netmasks, Setting the default route in the kernel routing table. Understanding the significance of the /etc/services file and well-known port numbers, Configuring the inet daemon, Using telnet to contact servers directly, using the ping command to test network connectivity, netstat command to examine kernel tables pertaining to networking, trace-route command to discover network paths, tcpdump to examine all network traffic. Methods used to bring interfaces up and down. Basics of
configuring and using the Domain Name Service, sendmail, the Network Information System, Network File System: Structure and function of the Domain Name Service (DNS), Setting up a Linux machine to function as a DNS server, Configuring and using sendmail, Setting up an NIS domain with an NIS master server and NIS clients.

CSC 843  Agent Technology  3 Units
Introduction to software agents: definition, attributes, different classes of software agents, uses of agents. Agents and the user experience: user’s interaction with agents, agents from direct manipulation to delegation, interface agents, designing agents, direct manipulation versus agents. Agents for learning and intelligent assistance: agents for information sharing and coordination, agents that reduce work and information overload, agents for cooperative learning, the M System. Agent communication, collaboration and mobility: agent oriented programming, Agent Communication Languages, agent based frameworks, communicative actions for artificial agents, Mobile agents. Multiagent systems: objectives and objections, multiagent interactions, communication, Agent security issues, Black Box Security. The FIPA model for software agents: Agent Lifecycle Management, Message Transport, Message Structure, Inter-agent Interaction Protocols, Ontologies, Security. Agent Programming: overview of Java based programming environments-ABLE, AgentBuilder, Aglets, FIPA-OS, Gossip, JADE, JATLite, Jess, Voyager, ZEUS etc; Other non-java environments; Programming static and mobile agents in any one such environment.

CSC 844  Advanced Topics in Computer Network  3 Units

CSC 845 Network Design 3 Units
Requirements, planning, and choosing technology: System requirements, traffic sizing characteristics time and delay
consideration. **Traffic Engineering and Capacity planning:** Background (Throughput calculations), Traffic engineering basics (Traffic characteristics), Traditional Traffic engineering, Queued data and packet switched traffic modeling, Designing for peaks, Delay or Latency, Availability and reliability, Capacity planning and Network vision, Design tool, Categories of tools, Classes of design tool, Components of design projects, Types of design projects. **Technology Comparisons:** Circuits-message-packet and cell switching methods, Packet switching service aspects, Generic packet switching network characteristics, Private verses public networking, Public network service selection, Business aspects of Packet-Frame and cell switching services, High speed LAN protocols comparisons, Application performance needs. **Access Network Design:** Network design layers, Access layer design, Access network capacity, network topology and hardware, completing the access network design. **Backbone Network Design:** Backbone requirements, Network capacities, Topologies, Topologies strategies, Tuning the network.

**CSC 846 Network Programming** 3 Units

**CSC 847 Software Project Management** 3 Units Software management renaissance: Conventional Software

CSC 848  Network Performance Evaluation       3 Units
Network performance modeling- Creating traffic matrix, design tools, components of design tools, types of design projects. Technology Comparisons- Generic packet switching networks characteristics, private vs.public networking, Business aspects of packet, frame and cell switching services, High speed LAN protocols comparison, Application performance needs, Throughput, burstiness, response time and delay tolerance, selecting service provider, vendor, service levels etc. Access Network Design- N/W design layers, Access N/W design, access n/w capacity, Backbone n/w design, Backbone segments, backbone capacity, topologies, Tuning the network, securing the network, Design for network security. Documentation and network management- Documentation, network management, SNMP, RMON Network Optimization- Network optimization theory: Goals of network optimization, Measurements for network optimization, optimization tools, optimization techniques.

CSC 849  Switching Theory and Fault Diagnosing       3 Units
Switching Theory: Advanced topics applicable to the design of large scale digital systems. Asynchronous and speed independent circuits, static and dynamic hazards; use of race condition. Algorithmic State
Machine design methods. Concepts of state assignment. Implementation with MSI, LSI and Programmable Logic. Design of Linked Machines. Register Transfer Language description of processor control algorithms. Reed-Mueller Algebraic descriptions. Fault Diagnosing: Fundamentals of testing theory and practice for complex VLSI designs. The objectives are to give the student the ability to solve a wide range of non-trivial testing problems using practical and cost effective techniques. Students will also learn to create test automation tools on their own. Topics covered include, Fault Modeling, Fault Simulation, Automatic Test Generation in Combinational and Sequential Circuits, Functional Testing of Microprocessors, ALUs and Memories, Design for Testability, Synthesis for Testability, Built-In Self-Test and Diagnosis.

**CSC 852  Network Security** 3 Units

**CSC 858  Advanced Software Engineering** 3 Units
Formal methods: data invariant, constructive specification, formal methods guideline, formal specification, languages, logic operators, operations, pre- and post- conditions, sequences, set operators, Z-schemas, Z-notation. Cleanroom Software Engineering: black box specification, box structure, certification, cleanroom strategy, clearbox specification, design refinement, functional specification, proof of correctness, state-box specification, statistical use testing, stimulus, test probability distribution, verification. Component-Based Software Engineering: adaptation, CBSE activities, CBSE process, characterization functions, classification, component-based development, component types, composition, domain engineering, economics of reuse, qualification, structure points. Client/Server Software Engineering: analysis modelling, architectural design,
architecture, components, configuration options, CORBA, database design, data distribution, function distribution, middleware, ORS, testing.

LIST OF STAFF IN COMPUTER SCIENCE

<table>
<thead>
<tr>
<th>S/N</th>
<th>NAME</th>
<th>QUALIFICATION</th>
<th>DESIGNATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Francis Sunday Bakpo</td>
<td>PhD Artificial intelligence</td>
<td>Professor</td>
</tr>
<tr>
<td>2.</td>
<td>Mark Okoro Chijioke</td>
<td>PhD Electrical/Electronics</td>
<td>Professor</td>
</tr>
<tr>
<td>4.</td>
<td>Monica Nonyelum Agu</td>
<td>PhD Operating systems</td>
<td>Snr. Lecturer</td>
</tr>
<tr>
<td>5.</td>
<td>George Emeka Okereke</td>
<td>PhD Computer Architecture</td>
<td>Snr. Lecturer</td>
</tr>
<tr>
<td>6.</td>
<td>Collina Nnalue Udanor</td>
<td>PhD Grid computing</td>
<td>Snr. Lecturer</td>
</tr>
<tr>
<td>7.</td>
<td>Modesta Ero Ezema</td>
<td>PhD Network Security</td>
<td>Snr. Lecturer</td>
</tr>
<tr>
<td>8.</td>
<td>Deborah Uzoamaka Ebem</td>
<td>PhD Databases</td>
<td>Snr. Lecturer</td>
</tr>
<tr>
<td>9.</td>
<td>Ndidiamaka Ozofor</td>
<td>PhD Mathematics</td>
<td>Snr. Lecturer</td>
</tr>
</tbody>
</table>
DEPARTMENT OF MICROBIOLOGY
POSTGRADUATE PROGRAMMES IN MICROBIOLOGY

1.1 Introduction
The Department of Microbiology was carved out from Biological Sciences, which was one of the first departments designed for the university's take-off- and presented to the National Universities Commission (NUC) for approval. The academic programme in the department is designed to provide the training needed for an understanding of the living organisms, their form, structure, their original habitat behaviour, functional development, micro-organisms in relation to humans and the environment and to build upon this foundation by in-depth exploration.

2.1 Philosophy of the University
The philosophy of GO University is based on the nature of human person as a social being, as a dialogue-seeking being. From this point of view the university understands education as dialogical process of acquisition and dissemination of knowledge. Thus, the philosophy of the M. Sc. Degree programme in Microbiology is birthed in the GO University philosophy as stated above. The programme is designed to provide training in the theory and practice of all branches of Microbiology and to stimulate creative thinking and research. The importance of a thorough grounding in experimental microbiology and need to expose the students to the operational aspects of the industry and to modern analytical tools are emphasized.

3.1 Mission of the University
Microbiology department has position itself to building an academically strong department providing excellence in teaching, learning, research and entrepreneurial skills necessary for the human resource needs of the larger society.

4.1 Vision of the University
In line with the vision of the university, the department intends to be a leading department providing excellence in Microbiology programme for the state, the nation and the international community.

5.1 Aims and Objectives
The postgraduate programme has the following objectives:

1) Production of high caliber microbiologist equipped to man responsible academic, industrial and research positions that require the utilization of microbial knowledge and skill in the service of a developing economy.
2) Probing of Nigeria's natural resources in order to accumulate relevant microbial data;
3) Investigations of fundamental microbiological nature;
4) Researches directed at solving specific Nigerian problems.

6.1 Scope
Postgraduate studies will be offered in broad areas of, Medical Microbiology, Environmental Microbiology, and Industrial Microbiology.

7.1 Employment Opportunity
Successful postgraduate students are equipped for careers in teaching, research institutes, Medical Microbiology, Biotechnology, Ministries of Science and Technology, Industry, Environment, and in such diverse industries as vegetable oils, and varnishes, brewery, pharmaceutical, health establishments.

8.1 Entry Requirement
Master's Degree Programme
The criteria for admission into the Master's Programme (M.Sc.) in Microbiology will be as follows:
(i) Candidates must have five credit passes including English, Mathematics and two other relevant science subjects at 'O' Level.
(ii) Graduates of Godfrey Okoye University, Enugu or any other University who have obtained at least a second-class honors degree with at least a CGPA of 3.0 on a 5point scale or its equivalent in Microbiology, Biology and Biotechnology or related disciplines may apply for admission.
(iii) Candidates with at least a third class degree or HND and university PGD in Microbiology or related disciplines with CGPA of 3.0/5.0 may be considered for admission.

9.1 Mode of Study
Course Work: Students will be required to do course work in relevant areas of Microbiology. Such course work should normally be successfully completed at the end of the first year of study. Where necessary, student will be required to take specified undergraduate courses in biology and or other related areas.
Seminar: In addition to course work, students will be expected to attend the departmental seminar in the course of their study.

10.1 Duration of Study
The duration of study will be as follows;
Master's Degree Programme
Full Time: 4 Semesters minimum and 8 semesters maximum.
Part Time: 6 Semester minimum and 10 semesters maximum.
11.1 Requirements for Graduation
To be awarded a Master's degree in Microbiology, the candidate must pass a minimum of 30 credit units made up as follows:

- Core courses of 26 credit units, including the general courses, projects and seminars.
- Elective courses of 4 credit units
- A student shall present at least one seminar, and submit and defend a thesis proposal.
- A student shall carry out research in a relevant area of specialization and submit an acceptable thesis (six credit units compulsory) which must be defended before a panel of external and internal examiners.

12.1 Registration Procedure
Students shall normally complete registration for courses for the semester not later than two weeks after the start of the semester. A student may not withdraw from a course after five weeks of lectures in a given semester without permission from the Dean of Postgraduate School.

A student who withdraws after five weeks or who fails to seek for permission from the Dean of Postgraduate School shall be deemed to have failed the course.

A student who fails to sit for more than 2 courses at the end of a given semester without approval should be deemed to have withdrawn voluntarily from the programme.

i) Good Standing
To be in good standing, a student must in each semester have a Cumulative Grade Point Average (CGPA) of not less than 3.00

ii) Withdrawal
A student whose cumulative grade point average is below 3.00 at the end of two consecutive semesters shall be withdrawn from the programme.

13.1 Attendance
In order to be eligible for examination in a particular course, a student shall have attended a minimum of 75% of the total periods of formal instructions delivered for the course.
14.1 Course Evaluation
(i) In the Masters programmes, assessment of students' achievements shall be based on:
   a) Course Examination
   b) Continuous assessment: Term papers/Seminars;
   c) Other assignments.
(ii) Continuous Assessment
   Continuous assessment shall be done through essays, tests, term papers, tutorial exercises, quizzes and home works.
   ➢ Scores from continuous assessment shall be 30% of the final marks for courses.

15.1 Examinations, Grading Procedure & Results
(i) Examinations
   a) In addition to continuous assessment, a final examination shall be given for every course at the end of every semester.
   b) The total scores obtainable for every course shall be 100% as follows:

<table>
<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Continuous Assessment</td>
<td>30%</td>
</tr>
<tr>
<td>Final Examination</td>
<td>70%</td>
</tr>
<tr>
<td>Total</td>
<td>100%</td>
</tr>
</tbody>
</table>

   Each course shall normally be completed and examined at the end of the semester in which it is offered.

(ii) Pass Mark
   The minimum pass mark in any course/thesis shall be 50%

(iii) Grading System
   Grading of courses shall be done by a combination of percentage marks and letter grades translated into a graduated system of Grade Point Equivalents (GPE). For the purpose of determining a student's standing at the end of every semester, the Grade Point Average (GPA) system shall be used. The GPA is computed by dividing the total number of credit points (TCP) by the total number of units (TNU) for all the courses taken in the semester. The credit point for a course is computed by multiplying the number of units for the course by the Grade Point Equivalent of the marks scored in the course.
Each course shall be graded out of a maximum of 100 marks and assigned appropriate Grade Point Equivalent as in the following table:

<table>
<thead>
<tr>
<th>Credit Units</th>
<th>% Scores</th>
<th>Letter Grades</th>
<th>Grade Points (GP)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vary according to contact hours assigned to each course per week per semester, and according to load carried by students.</td>
<td>70 – 100</td>
<td>A</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>60 - 69</td>
<td>B</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>50 - 59</td>
<td>C</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Below 50</td>
<td>F</td>
<td>0</td>
</tr>
</tbody>
</table>

THE DIFFERENT PROGRAMMES AND THEIR COURSE SYNONPSIS

1. MASTER’S DEGREE IN MICROBIOLOGY (M.Sc.)

Areas of specialization for Microbiology Programme

1. Medical Microbiology
2. Environmental Microbiology
3. Industrial Microbiology

STRESS AREAS FOR MSC, MICROBIOLOGY ARE AS FOLLOWS:

Medical Microbiology
0. Medical Microbiology
1. Soil Microbiology
2. Industrial Microbiology
3. Environmental Microbiology
4. Mycology
5. Virology
6. Immunology/Immunochemistry
7. Molecular Microbiology
8. Seminar
9. Research Project
## Course Outlines

### Core Courses

#### M.Sc. Courses in Microbiology (Medical Microbiology)

**First Semester**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>SCI 801</td>
<td>Management and Entrepreneurship</td>
<td>2</td>
</tr>
<tr>
<td>MCB 801</td>
<td>Advanced General Microbiology</td>
<td>3</td>
</tr>
<tr>
<td>MCB 803</td>
<td>Advanced Parasitology</td>
<td>3</td>
</tr>
<tr>
<td>MCB 807</td>
<td>Advanced Public Health Microbiology</td>
<td>3</td>
</tr>
<tr>
<td>MCB 865</td>
<td>Advanced Virology</td>
<td>3</td>
</tr>
<tr>
<td>MCB 889</td>
<td>Seminar in Microbiology</td>
<td>2</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>16</strong></td>
</tr>
</tbody>
</table>

**Second Semester**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>SCI 802</td>
<td>ICT and Research Methodology</td>
<td>2</td>
</tr>
<tr>
<td>MCB 804</td>
<td>Advanced Mycology</td>
<td>3</td>
</tr>
<tr>
<td>MCB 864</td>
<td>Advanced Immunology/Imunochemistry</td>
<td>3</td>
</tr>
<tr>
<td>MCB 894</td>
<td>Research Project</td>
<td>6</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>14</strong></td>
</tr>
</tbody>
</table>

#### M.Sc. Courses in Microbiology (Environmental Microbiology)

**First Semester**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>SCI 801</td>
<td>Management and Entrepreneurship</td>
<td>2</td>
</tr>
</tbody>
</table>

---

Godfrey Okoye University
School of Postgraduate Studies Handbook (2017-2020)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MCB 801</td>
<td>Advanced General Microbiology</td>
<td>3</td>
</tr>
<tr>
<td>MCB 803</td>
<td>Advanced Microbial Ecology</td>
<td>3</td>
</tr>
<tr>
<td>MCB 831</td>
<td>Principles of Epidemiology and Control</td>
<td>3</td>
</tr>
<tr>
<td>MCB 833</td>
<td>Advanced Environmental Microbiology</td>
<td>3</td>
</tr>
<tr>
<td>MCB 889</td>
<td>Seminar in Microbiology</td>
<td>2</td>
</tr>
</tbody>
</table>

**Second Semester**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>SCI 802</td>
<td>ICT and Research Methodology</td>
<td>2</td>
</tr>
<tr>
<td>MCB 802</td>
<td>Advanced Microbial Genetics and Genomics</td>
<td>3</td>
</tr>
<tr>
<td>MCB 834</td>
<td>Environmental Biotechnology</td>
<td>3</td>
</tr>
<tr>
<td>MCB 836</td>
<td>Soil and Ground Water Quality</td>
<td>3</td>
</tr>
<tr>
<td>MCB 894</td>
<td>Research Project</td>
<td>3</td>
</tr>
</tbody>
</table>

**M.Sc. Courses in Microbiology (Food/Industrial Microbiology)**

**First Semester**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>SCI 801</td>
<td>Management and Entrepreneurship</td>
<td>2</td>
</tr>
<tr>
<td>MCB 801</td>
<td>Advanced General Microbiology</td>
<td>3</td>
</tr>
<tr>
<td>MCB 823</td>
<td>Advanced Food Microbiology I</td>
<td>3</td>
</tr>
<tr>
<td>MCB 827</td>
<td>Advanced Industrial Microbiology</td>
<td>3</td>
</tr>
<tr>
<td>MCB 833</td>
<td>Advanced Environmental Microbiology</td>
<td>3</td>
</tr>
<tr>
<td>MCB 889</td>
<td>Seminar in Microbiology</td>
<td>2</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>16</strong></td>
</tr>
</tbody>
</table>

**Second Semester**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>SCI 802</td>
<td>ICT and Research Methodology</td>
<td>2</td>
</tr>
<tr>
<td>MCB 824</td>
<td>Advanced Food Microbiology II</td>
<td>3</td>
</tr>
<tr>
<td>MCB 826</td>
<td>Advanced Principles of Fermentation Technology</td>
<td>3</td>
</tr>
<tr>
<td>MCB 894</td>
<td>Research Project</td>
<td>6</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>14</strong></td>
</tr>
</tbody>
</table>

**Electives**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MCB 805</td>
<td>Advanced Bacteriology</td>
<td>3</td>
</tr>
<tr>
<td>MCB 811</td>
<td>Advanced Soil Microbiology</td>
<td>3</td>
</tr>
<tr>
<td>MCB 825</td>
<td>Water and Waste Water Treatment Processes</td>
<td>3</td>
</tr>
</tbody>
</table>
Second Semester
MCB 802  Advanced Microbial Genetics & Genomic  3
MCB 806  Advanced Pharmaceutical Microbiology  3
MCB 822  Advanced Microbial Physiology and Metabolism  3
MCB 838  Concept of Environmental Health  3
COURSE DESCRIPTION

MCB 801  Advanced General Microbiology  3 Units

MCB 802  Advanced Microbial Genetics and Genomics  3 Units

MCB 803  Advanced Parasitology  3 Units
Parasitology and Entomology, general problems in parasitology, parasitic protozoa and arthropods. Applied entomology, epidemiology and public health.

MCB 804  Advanced Mycology  3 Units

MCB 805  Advanced Bacteriology  3 Units

MCB 806  Advanced Pharmaceutical Microbiology  3 Units

**MCB 807 Advanced Public Health Microbiology** 3 Units
Detailed studies of microorganisms of public health significance in water, food, air and soil. Mechanism of bacterial and parasitic infections. Epidemiology of communicable diseases and community protection methods.

**MCB 811: Advanced Soil Microbiology** 3 Units
Microbiology and biochemistry of Agronomically important soil processes, Decomposition of organic matter such as hemicelluloses, cellulose, lignin and fertilizers. Biochemistry of pesticide degradation.

**MCB 822 Advanced Microbial Physiology and Metabolism** 3 Units

**MCB 823 Advanced Food Microbiology I** 3 Units

**MCB 824 Advanced Food Microbiology II** 3 Units

**MCB 825  Water and Waste Water Treatment Processes  3 Units**
General overview of aquatic microorganisms. Examination of fecal contamination of water pre-filtration, sedimentation and coagulation of water, slow sand and rapid sand filtration. Chlorination, ozonation, fluoridation, Ion-exchange and electrodialysis. Aerobic system of sewage disposal, thicking filter, oxidation pond, activated sluge system. Anaerobic systems of sewage disposal (the cess pool, spetic and imhoff tank).

**MCB 826  Advanced Principles of Fermentation Technology  3 Units**

**MCB 827  Advanced Industrial Microbiology and Biotechnology  3 Units**

**MCB 833  Advanced Environmental Microbiology  3 Units**
Important of microbiological aspects of soil and water resources. Fresh water and marine microhabitats. Sources and types of water pollution; Natural or manmade, Nitrates, pesticides and organic micro-pollutants, odour and taste, iron and manganese. Hardness, pathogens alga and algal toxeins, Radon and Radio activity and problems arising from water treatment, distribution and home plumbing systems, monitoring and removal of pathogens. Sewage management. Isolation of various microorganisms for biotechnology. Biochemical cycles, microbial leaching, microbiology and biochemistry of polluted estuarine sediments and microbial invertebrates interactions in sediments. Biodegradation of xenobiotic
compounds, natural gas synthetic polymers and microbial plastics and other recalcitrant material. Isolation of microorganisms that metabolise xenobiotic compounds.

**MCB 834 Environmental Biotechnology 3 Units**

**MCB 855 Advanced Virology 3 Units**

**MCB 864 Immunology and Immunochemistry 3 Units**

**MCB 889 Seminar in Microbiology 2 Units**
Current topics and advanced to undertaker approved research projects on relevant microbiological problems.

**MCB 890 Research Project 6 Units**
## STAFF LIST IN MICROBIOLOGY

<table>
<thead>
<tr>
<th>STAFF</th>
<th>QUALIFICATION</th>
<th>DESIGNATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. Marian N. Unachukwu</td>
<td>AIMLS (Microbiology), PGD (Pub. Health Parasitology &amp; Entomology), M.Sc. (Public Health Parasitology/Entomology), PhD (Public Health Parasitology/Entomology) Unizik</td>
<td>Full Time Senior Lecturer (H.O.D)</td>
</tr>
<tr>
<td>Emeritus Prof Nduka Okafor</td>
<td>B.Sc., M.Sc., PhD., Applied Biology</td>
<td>Professor</td>
</tr>
<tr>
<td>Prof. Josephine I. Okafor</td>
<td>B.Sc., M.Sc., PhD., Microbiology</td>
<td>Part-Time Professor</td>
</tr>
<tr>
<td>Prof. Jude E. Amadi</td>
<td>B.Sc. (Botany), M.Sc. (Plant Pathology), PhD (Plant Pathology)</td>
<td>Part-Time Professor</td>
</tr>
<tr>
<td>Dr. A.E. Eze</td>
<td>PhD (Medical Microbiology) M.Sc. (Medical Microbiology) B.Sc.</td>
<td>Part-Time Snr. Lecturer</td>
</tr>
<tr>
<td>Dr. Mrs. Chinelo Eze</td>
<td>B.Sc., M.Sc. Ph.D Pharmaceutical Microbiology</td>
<td>Full Time Lecturer I</td>
</tr>
<tr>
<td>Simeon O. Okolo</td>
<td>AIMLS., (Bacteriology PGD), M.Sc.(Microbiology)</td>
<td>Lecturer II</td>
</tr>
<tr>
<td>John Ogbodo</td>
<td>B.Sc. 2002 Microbiology M.Sc. 2012 Pharmaceutical Microbiology</td>
<td>Lecturer II</td>
</tr>
</tbody>
</table>
DEPARTMENT OF PHYSICS AND GEOSCIENCES
POSTGRADUATE PROGRAMMES IN PHYSICS

1.0 Introduction
The postgraduate programmes of the Department of Physical and Geosciences hinge on the maxim that teaching physics and learning physics mean doing physics. The ground for doing physics is research and development of successfully applied physical/theoretical proposals.
The postgraduate programmes of the Department are therefore designed to impart both sound theoretical and practical knowledge of all branches of physics to the students. The programmes aim at inculcating in the students the skills and intellectual training needed for taking top careers as a physicist. The areas of specialization and research in the Department include the following: condensed matter physics and material science; medical physics; theoretical high energy physics; geophysics; astrophysics; space science; and solar energy physics.
All Master's Degree students are required to take up to three core courses designed to form the foundation at advanced levels in the various areas of physics. Students are also required to take a number of courses in the specialized areas of their choice on the advice of their supervisor and the Departmental graduate studies committee. The M.Sc. examination consists of written papers on the courses taken and research work presented in the form of a project report or dissertation as the case may be.

The examination for PhD degree shall be solely by thesis embodying the research work carried by the student and containing original contributions. The training not only increases the students' skills, intellectual and professional competence for making a career as a physicist, but also prepares the students for careers as lecturers and researchers in the universities and other tertiary educational institutions, industrial research institutes, government departments such as the Geological Survey and National Standards Organization, Broadcasting & the Entertainment Industries, Oil and Steel Companies, and commercial firms.

2.0 Mission of the University: GO University dedicates itself to impart quality education aimed at inculcating in students strong personality that will ensure the promotion of religious, cultural and epistemological dialogue.

2.1 Vision of the University: GO University's vision is to produce graduates who will be outstanding in learning, balanced in character and personality and ready to pursue epistemic unity in all ramifications.
2.2 **Philosophy:** The philosophy of GO University is based on the nature of human person as a social being and a dialogue-seeking being. From this point of view, the university understands education as a dialogical process of acquisition and dissemination of knowledge. Thus; the philosophy of the physics programme is hinged on this philosophy viz.” education as dialogical process of acquisition and dissemination of knowledge”. The programme is fashioned towards producing graduates with adequate/broad understanding of the basic concepts or physics complemented with applications oriented courses (i.e., specializations) that will advance the productive capacity of these graduates; training personnel to the highest academic standards in the provision of a firm basis for creative work in the fields of physics sciences and technology and offering a critical background for several other professional applied science discipline

2.3 **Objectives:** The postgraduate programme is designed to offer a variety of experiences in physics with particular emphasis on certain fields which are relevant to economic and technological development of the country. Specifically they are intended to meet three main objectives:

a) Training in techniques beyond first degree level for those who are interested in and are capable of pursuing an academic career in research and or teaching.

b) Training in techniques beyond first degree level for those who envisage a career in industry or government services, particularly in such areas as Renewable Energy, Material Physics, Communication Physics, Space and Metrological Physics, Radiation and Health Physics, Geophysics, Physics with Electronics etc.

c) Fashioned towards preparing postgraduate scholastic/research studies in physics and their allied discipline.

3.0 **Admission Requirement**
The criteria for admission into the Masters Programme (M.Sc.) will be as follows:

(i) All candidates must have five credit passes including English, Mathematics and two other relevant science subjects at ‘O’ Level. Candidate for Master Degree Programme must have a good Honours Degree in Physics or allied discipline from Godfrey Okoye University and from any other recognized universities with minimum of second class lower division.
Academic Masters Degree Programme
Academic Masters Programmes qualify candidates for higher degrees while professional programmes are terminal.
(ii) (a) Candidates with Bachelor’s degrees from an approved university must obtain a minimum of second class lower division with a CGPA of 3.0/5.0 for an academic programme.
   (b) Candidates with at least a third class degree or HND and university PGD with CGPA of 3.0/5.0 may be considered for admission into academic Master’s degree programmes.

Professional Masters Degree Programmes
(a) Candidates for professional Master’s degree programmes must obtain a minimum of second class lower division.
(b) candidates with university degree in third class or Hnd plus a university PGD at credit level pass, (i.e CGPA of 3.0/5.0) or 50% on weighted percentage average may be considered for admission into professional Master’s degree programmes.

(iii) All candidates must demonstrate adequate intellectual capacity, maturity effective decision making and problem solving potentials.
For PhD, a minimum of 4.0 point grade is required as entry point after a master's degree.

Areas of Specialization
Candidate can specialize in any of the areas of interest as in the approved programmes of individual universities.

Expected Duration of Programme
(I) A full time Academic Master’s Programme should run for a minimum of 3 semesters and a maximum of 5 semesters.
(ii) Part-time Academic Master’s programmes should run for a minimum of 5 semesters and a maximum of 8 semesters.
(iii) For extension beyond the specified maximum period a special permission of Senate shall be required.

3.1 Examination Processes
The lecturer(s) of each course is/are responsible for drawing questions with marking guides, according to stipulated departmental format, in the course taught. All examination papers and marking schemes are subjected to internal moderation.
3.2 Project Supervision
The grading is in two parts:
(a) Written project
(b) Oral Defense of project
Every project is assessed by the main supervisor and another lecturer. The average of the two is recorded.

3.3 Grading of Projects
Write up 70%
Defense 30%

Supervisor's grading must emphasize on the following:
✓ Criteria of hard work
✓ Obedience in complying with instruction
✓ Willingness to learn

Grading of project will follow this format
(a) Introduction 10 points
   Theoretical consideration 20 points
   Quality of Data collection 10 points
   Data Analysis and interpretation 20 points
   Style 10 points
   Sub Total 70 marks

(b) Oral Defense of project: the oral (Defense of project) examination will be graded using the following guidelines:
   Mastery of subject 10 points
   Comportment and Appearance 5 points
   Contribution to knowledge 5 points
   Ability to develop and carry independent work 5 points
   Application of project to specific sector of the economy 5 points
   Sub-Total 30 points

Use of regular continuous assessment tests as a measure to improve lecture attendance by students and thereby improve their academic performance, the employment of more regular impromptu continuous assessment tests was adopted.

i. With its operation, more regular continuous assessment tests are conducted, usually on an impromptu basis and properly supervised to ensure that students attend lectures and are fully prepared all the time, rather than waiting for the mid and end semester examination. This will therefore de-emphasize the undue focus hitherto placed on the mid-semester examinations.
ii. A minimum of 3 continuous assessment tests is to be expected which should be staggered as follows:
   1\textsuperscript{st} one around the first four weeks of lecture
   2\textsuperscript{nd} one during the mid-semester period
   3\textsuperscript{rd} one when the end of semester is about 3 weeks

iii. This continuous assessment tests will attract a total of 30 marks out of 100 marks for the semester total score

iv. All graded scripts are to be returned to students to enable them learn from their mistakes.
   One external examiner from a university of repute usually participates in the conduct of examinations and in the determination of the overall results in accordance with the general regulations relating to the duties of the external examiner.

3.4 Make-up Tests
Make-up test and examinations are only allowed for students who missed such tests and examinations for reasons that are consider condonable as prescribed by senate. These include cases of:

- Illness by students, backed-up with medical reports from GO medical centre.

4.0 Graduation Requirement
Conditions governing the award of M.Sc, PhD

(a). Master of Science students must pass 39 credit units spread over two semesters. On completion of the courses, each candidate will be required to submit a dissertation for both internal and external examination defense

(b). Doctor of philosophy candidate will be required to submit a thesis based on original research work and pass an oral examination.

(c). The duration for full time master's degree is minimum of 3 semesters and maximum of 5 semesters and a minimum 5 semesters and maximum of 8 semesters for part-time. For full-time doctor of philosophy, it is a minimum of 6 semesters and maximum of 8 semesters. For part-time is a minimum of 8 semester and maximum of 10 semesters.

Registration Procedure
Students shall normally complete registration for courses for the semester not later than two weeks after the start of the semester. A student may not withdraw from a course after five weeks of lectures in a given semester without permission from the Dean of Postgraduate School.
A student who withdraws after five weeks or who fails to seek for permission from the Dean of Postgraduate School shall be deemed to have failed the course. A student who fails to sit for more than 2 courses at the end of a given semester without approval should be deemed to have withdrawn voluntarily from the programme.

i. Good Standing
To be in good standing, a student must in each semester have a Cumulative Grade Point Average (CGPA) of not less than 3.00

ii. Withdrawal
A student whose cumulative grade point average is below 3.00 at the end of two consecutive semesters shall withdrawn from the programme.

Attendance
In order to be eligible for examination in a particular course, a student shall have attended a minimum of 75% of the total periods of formal instructions delivered for the course.

iii. Pass Mark
The minimum pass mark in any course/thesis shall be 50%

iv. Grading System
Grading of courses shall be done by a combination of percentage marks and letter grades translated into a graduated system of Grade Point Equivalents (GPE). For the purpose of determining a student's standing at the end of every semester, the Grade Point Average (GPA) system shall be used. The GPA is computed by dividing the total number of credit points (TCP) by the total number of units (TNU) for all the courses taken in the semester. The credit point for a course is computed by multiplying the number of units for the course by the Grade Point Equivalent of the marks scored in the course.
Each course shall be graded out of a maximum of 100 marks and assigned appropriate Grade Point Equivalent as in the following table:

<table>
<thead>
<tr>
<th>Credit Units</th>
<th>% Scores</th>
<th>Letter Grades</th>
<th>Grade Points (GP)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vary according to contact hours assigned to each course per week per semester, and according to load carried by students.</td>
<td>70 – 100</td>
<td>A</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>60 - 69</td>
<td>B</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>50 - 59</td>
<td>C</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Below 50</td>
<td>F</td>
<td>0</td>
</tr>
</tbody>
</table>

**iii. Presentation of Results**
Results from the Postgraduate School's Board shall be presented to Senate for approval.

**iv. Release of Results**
Results shall be released/published not later than 2 weeks after approval by the Senate.

**External Examiner System**
The external examiner system shall be used for Masters programme to assess the courses. The Thesis for academic Masters shall be defended orally before a panel of internal and External examiners. All theses should be graded.
Course Outline

M.Sc. In Physics
Core Courses (for all area of specializations)

1st Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>SCI 801</td>
<td>Management &amp; Entrepreneurship</td>
<td>2</td>
</tr>
<tr>
<td>PHY 801</td>
<td>Mathematical Methods</td>
<td>3</td>
</tr>
<tr>
<td>PHY 803</td>
<td>Electromagnetic Theory</td>
<td>3</td>
</tr>
<tr>
<td>PHY 805</td>
<td>Numerical and Computational Method</td>
<td>3</td>
</tr>
<tr>
<td>PHY 807</td>
<td>Seminar</td>
<td>2</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>13</td>
</tr>
</tbody>
</table>

2nd Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>SCI 802</td>
<td>ICT &amp; Research Methodology</td>
<td>2</td>
</tr>
<tr>
<td>PHY 802</td>
<td>Applied Electronics and Workshop Practice</td>
<td>3</td>
</tr>
<tr>
<td>PHY 804</td>
<td>Quantum theory</td>
<td>3</td>
</tr>
<tr>
<td>PHY 892</td>
<td>Project</td>
<td>6</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>14</td>
</tr>
</tbody>
</table>

Specializations

Space and Ionospheric Propagation (Any 6 Credit Units)

1st Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHY 810</td>
<td>Phenomena in Natural Plasma</td>
<td>3</td>
</tr>
<tr>
<td>PHY 811</td>
<td>Structure and Dynamics of Upper Atmosphere</td>
<td>3</td>
</tr>
<tr>
<td>PHY 817</td>
<td>Physics of the Earth’s Interior</td>
<td>3</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>9</td>
</tr>
</tbody>
</table>

2nd Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHY 812</td>
<td>Ionosphere Physics</td>
<td>3</td>
</tr>
<tr>
<td>PHY 813</td>
<td>Dynamic Meteorology</td>
<td>3</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>6</td>
</tr>
</tbody>
</table>

Solid State Physics

1st Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHY 814</td>
<td>Structural Properties of Solids</td>
<td>3</td>
</tr>
<tr>
<td>PHY 829</td>
<td>Solar Energy Physics</td>
<td>3</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>6</td>
</tr>
</tbody>
</table>
### 2nd Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHY 828</td>
<td>Technology of Semiconductor Materials</td>
<td>3</td>
</tr>
<tr>
<td>PHY 823</td>
<td>Thermodynamics and Statistical Mechanics</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>6</strong></td>
</tr>
</tbody>
</table>

**Radiation, Nuclear and Health Physics (Any 6 Credit Units)**

### 1st Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHY 818</td>
<td>Fundamental of Nuclear Physics</td>
<td>3</td>
</tr>
<tr>
<td>PHY 820</td>
<td>Radiation Protection Guides</td>
<td>3</td>
</tr>
<tr>
<td>PHY 821</td>
<td>Nuclear Application in Medicine, Industry &amp; Research</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>9</strong></td>
</tr>
</tbody>
</table>

### 2nd Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHY 819</td>
<td>Radiation Detection and Dosimetry</td>
<td>3</td>
</tr>
<tr>
<td>PHY 822</td>
<td>Non-Ionizing Radiation</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>6</strong></td>
</tr>
</tbody>
</table>

### Theoretical Physics

### 1st Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHY 823</td>
<td>Thermodynamics &amp; Statistical Mechanics</td>
<td>3</td>
</tr>
<tr>
<td>PHY 825</td>
<td>General Relativity</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>6</strong></td>
</tr>
</tbody>
</table>

### 2nd Semester (Any 6 Credit Units)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHY 824</td>
<td>Quantum Field Theory</td>
<td>3</td>
</tr>
<tr>
<td>PHY 826</td>
<td>Particle Physics</td>
<td>3</td>
</tr>
<tr>
<td>PHY 827</td>
<td>Non-Linear Dynamic Systems</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>9</strong></td>
</tr>
</tbody>
</table>

### Solar Energy Physics

### 1st Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHY 870</td>
<td>Solar Energy and its availability</td>
<td>3</td>
</tr>
<tr>
<td>PHY 871</td>
<td>Solar Energy Collection and Storage</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>6</strong></td>
</tr>
</tbody>
</table>
### 2nd Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHY 872</td>
<td>Solar Energy Conservation and Storage</td>
<td>3</td>
</tr>
<tr>
<td>PHY 873</td>
<td>Experimental Study of Solar Energy Utilities.</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>6</strong></td>
</tr>
</tbody>
</table>

### Geophysics

#### 1st Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHY 831</td>
<td>Gravity and Magnetic Methods</td>
<td>3</td>
</tr>
<tr>
<td>PHY 841</td>
<td>Seismic and Well-logging Methods</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>6</strong></td>
</tr>
</tbody>
</table>

#### 2nd Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHY 815</td>
<td>Exploration Geophysics</td>
<td>3</td>
</tr>
<tr>
<td>PHY 842</td>
<td>Electrical and Radiometric Methods</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>6</strong></td>
</tr>
</tbody>
</table>
COURSE DESCRIPTION

PHY 801  Mathematical Methods  3 Units
Functions of complex variable and the properties and consequences of analyticity: techniques of analytical continuation and applications, calculus of residues: complex integration: 'systematic' methods of obtaining 'exact' solutions of O.D.E, in closed forms: local and global analysis of initial and boundary values problems, applications will include solutions of Eigenvalues of Schroedinger type equations, the classical anharmonic oscillator: introduction to partial differential equation methods of characteristics for solving first order p.d.e. transform methods and application to the solution of initial and boundary value problems.

PHY 802  Applied Electronics and Workshop Practice  3 Units

PHY 803  Electromagnetic Theory  3 Units

PHY 804  Quantum Theory  3 Units

PHY 805  Numerical and Computational Methods  3 Units
Interpolation schemes, the Lagrangian representation, Aitkin algorithm least square fit: interactive processes: solution of linear equations, Gaussian elimination, inversion of matrices: Fourier series and harmonic analysis: difference
equations: numerical integration and differentiation. Trapezium Simpson's
limitation of size of grid: solution of ordinary differential equation, step by step
methods: partial differential equation; simple wave propagation forward
difference, backward difference, central difference in time, the implicit scheme,
conditions for stability; e.g., diffusion equation; hyperbolic equation method of
relaxation and other interactive schemes applied to simultaneous equations; ill-
conditioned equations: Elliptic equations interactive methods, spectral series
method: functional representation, minimization and telescoping, computer
solution of equations.

**PHY 810 Phenomena in Natural Plasma** 3 Units

Basic concept and common phenomena: Debye shielding, dielectric constant,
charge and current densities conservation laws, in a magnetoplas equations of
continuity, diffusion: equations of motion and transport of ionization, adiabatic
invariants: collision, ionization and conductivity instability in plasma and waves
in plasma ionosphere the earth's ionosphere: altitude distribution of charged
particles: collisions and conductivity plasma instabilities and generation of
electron density irregularities such as sporadic E and spread F. artificial
modification of the ionosphere: the ionosphere's of other planets: magnetosphere;
earth's radiation belts: geomagnetic trapping of solar wind ionospheric and
magnetic storms: sun: reactions in the sun, solar flux and omission of energetic
particles.

**PHY 811 Structure and Dynamics of the Upper Atmosphere** 3 Units

Structure and dynamics of the upper atmosphere atmospheric nomenclature:
hydrostatic equations of atmospheric structure, scale height: heat balance in the
thermosphere, dissociation and diffusion: production and loss processes of ions
and electrons: Chapman theory: attitude distribution and temporal variations of
neutral and ionized constituents, temperature and collision frequency in the
mesosphere and thermosphere: Winds and tidal oscillations; gravity waves: drift
motions of irregularities: E-region clearic current and the dynamics of the
ionosphere: propagation of electromagnetic waves in the ionosphere: measuring
techniques for the parameter of the neutral constituents: Ions and electrons, wind
and drifts of irregularities, and temperature with special emphasis on those used
locally.

**PHY 812 Ionosphere Physics** 3 Units

Constitution of the atmosphere: formation and structure of D-, E-, and F-layers of
the ionosphere: vertical and oblique propagation of radio waves in the ionosphere:
ionospheric absorption and fading, magneto-ionic theory: ionospheric
disturbances: special features of the equatorial ionosphere.

**PHY 813 Dynamic Meteorology** 3 Units

Equations and fundamental laws governing atmospheric motion on rotating earth:
orders of magnitude for different scale of motion: the hydrostatic and geotropic
approximations: the thermal wind surfaces of discontinuity: gravity waves, acoustic waves and Rossby waves: tidal oscillations transformation of basic equations into pressure coordinates formulation: vorticity and divergence equations: Kelvins'sBjerkness' theorem, quasi-geostrophic models: the Omega equation: the boundary layer; the Ekman layer and incorporation of friction into quasi-geostrophic models: map projections: stable and unstable waves, introduction to numerical weather forecasting.

**PHY 814 Structural Properties of Solids**  

**PHY 815 Exploration Geophysics**  
Exploration and optimization of geophysical surveys, selected case histories of geophysical investigations for metallic and non-minerals, for fossil fuels and for solving ground water and engineering problems.

**PHY 817 Physics of the Earth's Interior**  
The composition of the earth: the physical characteristics of earth's material; material, electrical and magnetic properties: earth's and interior: further evidence from seismology, geothermal state and geomagnetism, geodynamics-global picture of the dynamic earth: Plate theory and rheology of the earth's interior: evidence from geomagnetic reversals: mechanism of earthquake and the new global tectonics: field and laboratory investigations especially: high pressure geophysics.

**PHY 818 Fundamentals of Nuclear Physics**  
Introduction and basic concepts: definitions, nuclear properties, nuclear potential and energy levels radioactivity and transformation kinematics nuclear collisions, nuclear instability, decay, electron capture (EC), and semi classical theory of decay, gamma decay and yield selection rules, internal conversion (IC), Auger electron emission: interaction of radiation with matter specific ionization, linear energy transfer (LET), mechanisms and energy transfer of heavy changed particles (Bethe-Bloch formula, Bragg curve, energy requirements etc., fast electrons, gamma-rays, neutrons including attenuation and moderation: nuclear reactions: general features of nuclear reactions, elastic scattering, direct reaction, compound nucleus reaction: heavy ions reaction: brief review of concepts and principles of reactors and criticality.

**PHY 819 Radiation Detection and Dosimetry**  
Radiation quantities: definitions and units radiation detection methods: ionization in gases; ionization in semiconductors: scintillation gamma spectrometry: neutron detection: thermoluminescence: film dosimetry, chemical dosimeter (Fricke),
particle track detection, calorimetry, etc. counting statistics dosimetry: external
dosimetry (gamma): internal dosimetry: reference human patient dosimetry in
radiographic examination, mammography, fluoroscopy and computed
tomography.

PHY 820  Radiation Protection Guides  3Units
The external radiation hazard and protection: time, distance and shielding,
monitoring external radiations (areas and personal): the internal radiation hazard
and protection: sources and type of airborne contaminants, control of the internal
radiation hazard, exposure reduction, internal dosimetry: waste management:
contamination, protection against contamination (protective clothing,
decontamination), waste disposal, packaging and safe transport of radioactive
materials: principles of radiation protection justification' optimization, dose limit,
international safety standards JCRP, BSS, NNRA element of radiation protection
programmed in medicine and industry: monitoring, emergence preparedness
planning and response QA and QC lot equipment training, audit, safety of
equipment.

PHY 821  Nuclear Application in Medicine Industry and Research  3Units
Physics and principles of diagnostic imaging equipment: radiographic unit,
computed tomography, mammographic units: principles of radiation therapy
(teletherapy and brachytherapy): physics of radiotherapy equipment; CO-60 unit
and linear accelerator: physics and operational principles of Gamma camera:
physics of positron (?) emission tomography PET: Physics and operational
principles of magnetic resonance imaging (MRI): industrial uses: industrial
radiography, tracing, gauging: material modification: sterilization, food
preservation and others: research uses: neutron activation analysis particle-
induced N-ray emission PIXE and others.

PHY 822  Non-ionizing Radiation  3Units
Radiometric units lasers: laser operations: lasing actions: TEM modes, biological
effects: eye damage, skin damage protection guides and standards, maximum
permissible exposure (MPE): safety measurements, power and energy: beam
divergence radiofrequency (RF) and microwave: communications, antennas and
antenna gain. G. penetration depth GAS land-sets and base stations: biological
effects: thermal and non-thermal effects, temperature-humidity index microwave
measurements, survey meters: protection guides and standard maximum
permissible exposure (MPE) safety.

PHY 823  Thermodynamics and Statistical Mechanics  3Units
Basic postulates of thermodynamics of simple, homogenous systems:
thermodynamic potentials and stability of thermodynamic systems: Gibb's theory
of thermodynamics with interaction effects: partition functions of difference
ensembles: fundamental equilibrium theory; Liouville's theorem and the Ergodic
hypothesis: distribution functions, entropy and connections with
thermodynamics: microcanonical, canonical and grand canonical ensembles:
Boltzmann and Maxwell Boltzmann distribution phases and transitions
phenomenology of phase equilibria; first and second order transitions:

**PHY 824 Quantum Field Theory**  
3 Units  

**PHY 825 General Relativity**  
3 Units  

**PHY 826 Particle Physics**  
3 Units  
PHY 827  Non-Linear Dynamical Systems  3Units

PHY 828  Technology of Semiconductor Materials  3Units
Methods of single crystal growth vacuum deposition of single crystal layers, impurities and lattice defects in semiconductors, properties of germanium and silicon and of selected A$^{III}$B$^{V}$ compounds GaAs, GaP, InSb etc behaviour of impurities during crystal growth of intermetallic semiconductor crystals, mechanical, electrical and optical characterization of single crystals.

PHY 829  Solar Energy Physics  3Units
Solar Radiation spectrum and solar constant, radiative transfer in the atmosphere, absorption, emission and scattering of radiation, solar radiation measurements, solar energy conversions, converters and collectors.

PHY 831  Gravity and Magnetic Methods in Geophysics  3Units
potential field theory, fundamentals and practical field aspect of land, marine and airborne gravity and magnetic surveying, interpretation techniques including filtering, continuation two and three dimensional map analysis, rock magnetism.

PHY 841  Seismic and well-logging Methods  3Units
Fundamental of Seismic waves, plane and spherical at interface, 2-layer, multi layer horizontal and multi layer dipping travel time curves, velocity functions, estimation of velocity as function of depth, generalize reciprocal method and depth sections, static corrections, elevation and weathering up-hole survey, Seismic refraction field techniques and applications, methods of borehole logging with applications to both petroleum and mineral exploration, vertical seismic profiling.
## STAFF LIST IN PHYSICS

<table>
<thead>
<tr>
<th>S/N</th>
<th>NAME</th>
<th>QUALIFICATION</th>
<th>DESIGNATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Chidi Chukwuemeka Uhuegbu</td>
<td>PhD, Solar Energy/ Solid State Physics</td>
<td>Professor</td>
</tr>
<tr>
<td>2.</td>
<td>Mark Okoro Chijioke</td>
<td>PhD, Electrical/Electronics</td>
<td>Professor</td>
</tr>
<tr>
<td>3.</td>
<td>Aaron Elochukwu Eze</td>
<td>PhD, Sciences Edu./ Physics</td>
<td>Professor</td>
</tr>
<tr>
<td>5.</td>
<td>Emmanuel N. Adinna</td>
<td>PhD, Geography/Environmental Management</td>
<td>Professor</td>
</tr>
<tr>
<td>6.</td>
<td>Akubuije A.D.E Chijioke</td>
<td>PhD, NANO Physics</td>
<td>Professor</td>
</tr>
<tr>
<td>7.</td>
<td>Emmanuel Ude Aniwetalu</td>
<td>PhD, Geophysics</td>
<td>Lecturer I</td>
</tr>
<tr>
<td>8.</td>
<td>Okey Fidelis Madu</td>
<td>M.Sc., Astrophysics</td>
<td>Lecturer I</td>
</tr>
<tr>
<td>9.</td>
<td>Lorretta Ogochukwu Onuorah</td>
<td>M.Sc., Geophysics</td>
<td>Lecturer I</td>
</tr>
</tbody>
</table>