UNIVERSITY OF PORT HARCOURT

DEPARTMENTAL BROCHURE

2018

FACULTY OF SOCIAL SCIENCES

DEPARTMENT OF GEOGRAPHY & ENVIRONMENTAL MANAGEMENT

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ACADEMIC STAFF

Dr. E. I. Elenwo (Head of Department)

Prof. Oyegun, C. U.

Prof. Akpoghomeh, O. S.

Prof. Arokoyu, S. B.

Prof. Umeuduji, J.E

Prof. Obafemi, AA

Prof. Mmom, P.C

	
Dr. C. F. Igwe	**Dr. (Mrs.) G. C. Emenike**
	
Dr. M. O. Nwagbara	**Dr. C. H. Wizor**
	
Dr. V. E. Weli	**Dr. C. I. Ezekwe**
	
Dr. O. Lawal	**Dr. Daniel Mbee**

	
Dr. O. S. Eludoyin	**Dr. N. Deekor**

		
Mr. Victor N. Sunday	**Dr. Ogoro Mark**	**Dr. G.O. Chukwu-Okeah**
		
Mr. V. O. Wekpe	**Mr. Ogbonna, Vincent**	**Dr. M. Kpang**

ADMINISTRATIVE AND TECHNICAL STAFF

		
Mrs. L.T.G. Lomda	**Mrs. C.L. Zoragha**	**Nwokocha Vivian Akunna**
		
Miss A. Onyeozu Cecilia	**Ukwe Comfort**	**Mrs. Chinyere Woke**
		
Miss M.N. Nwabufor	**Dr. Onyema**	**Jim Gloria**
		
Ogaga Oghenevwede		

DIFFERENT PHASES IN THE DEVELOPMENT OF THE DEPARTMENT OF GEOGRAPHY AND ENVIRONMENTAL MANAGEMENT

Phase 1: (1977 - 1981)

Creation of the Department in 1977, headed by a Director of Study with limited autonomy and skeletal Staff including Mr. K. B. Philip Howard Prof. R. K. Udo, Prof. Barry Floyd and Late Dr. P, U. Onyige (once Nigeria's Ambassador to Mexico). Within this period the Department turned out its first graduates in 1981 with a B.Sc in Geography.

Phase 2

From 1982, the then School of Social Sciences was reconstituted into the Faculty of Social Sciences comprising four Departments namely Geography, Political Sciences, Economics and Sociology with the Department enjoying greater autonomy and having their own complement of academic and non-academic staff directly responsible to the Head of Department. Staff strength increased from four to eight in 1982 when the Department turned out it second set of Graduates. In 1983 the Department turned out her 3rd set of graduates. The current Acting Head of Department Dr. C. F. Igwe was among this set. Within the same session, the Department started an M.Sc Degree in Geography.

Phase 3 (1983 - 1999)

This period witnessed the over hauling of the Post graduate programme and the addition of the B.Sc. (Geography) as a course in the Continuing Education Programme. Within this period also

Senate approved the change of name from Geography to Geography and Environmental Management.

Phase 4 (2000 and beyond)

Within this period, Postgraduate Diploma and M.Sc. Environmental Management were approved by Senate and also the Department went through series of Accreditation exercises which gave rise to an increase in infrastructural facilities i.e. Physical Laboratories, Remote Sensing Laboratories and the establishment of the M.Sc. Programme in Disaster Management in March 2009 sponsored by National Emergency Management Authority (NEMA).

Currently, the Nigerian Meteorological Agency (NIMET) in conjunction with The Nigerian Hydrological Services has established the state of the art Automatic Weather Station which is to be Geo-referenced by the World Meteorological Organisation (W.M.O) and NIMET Headquarters in Abuja?

Finally, the history of this Department will certainly be incomplete if we forget to mention her role at the national and professional level. On two occasions (1978 and 2005) the Department successfully and meritoriously hosted the Annual National Conference of the Association of Nigeria Geographers (ANG – the umbrella body of academic and professional geographers in Nigeria). This is an obvious indication that the Department of Geography and Environmental Management has come a long way and currently occupies an enviable position amongst the community of environment-related scholars, disciplines and institutions.

HEADS OF DEPARTMENT AND THEIR PERIODS

Dr. L. B. Dangana	-	1977 - 1982
Dr. E. A. Gyasi	-	1983 - 1984
Dr. A. T. Salau	-	1984 - 1985
Dr. C. V. Izeogu	-	1985/86 - 86/87
Dr. P. U. Onyige	-	1987 - 1989
Dr. E. A. Nwala	-	1989 - 1990
Dr. (Mrs.) O. A. Salau	-	1991/92 - 94/95
Dr. C. U. Oyegun	-	1995/96 - 96/97
Dr. A. M. Adeyemo	-	1997 - 1999
Prof. W. I. Bell-Gam	-	1999 - 2001
Dr. O. S. Akpoghomeh	-	2001 - 2002
Dr. A. M. Adeyemo	-	2002 - 2003
Dr. J. E. Umeuduji	-	2003 - 2005
Dr. S. B. Arokoyu	-	2005 - 2007
Dr. A. A. Obafemi	-	2008 - 2010
Dr. C. F. Igwe	-	2010 - 2012
Dr. J. E. Umeuduji	-	2012 - 2014
Dr. (Mrs.) G. C. Emenike	-	2014 - 2016
Dr. V.E. Weli	-	2016 till date

2.1 MISSION AND VISION

The Department has always had a mission, which is to contribute meaningfully in the resolution of a variety of issues that are of great importance to man. Our vision is to be relevant to the society. This is why at the first –degree level, we try to design and execute a programme that leads to the grooming of middle – cadre man-power for ministries, industries, oil companies and other environmental establishments.

At the post-graduate level, our programmes are basically designed to groom high-cadre professionals for the academia as well as for other associated society and that was what informed our vision of changing our initial departmental name from the Department of Geography to the Department of Geography and Environmental Management. Judging from the level of intellectual stimulation among our academic staff and the number and quality of their publications, one can confidentially say that the Department of Geography and Environmental Management is very alive to her vision and mission.

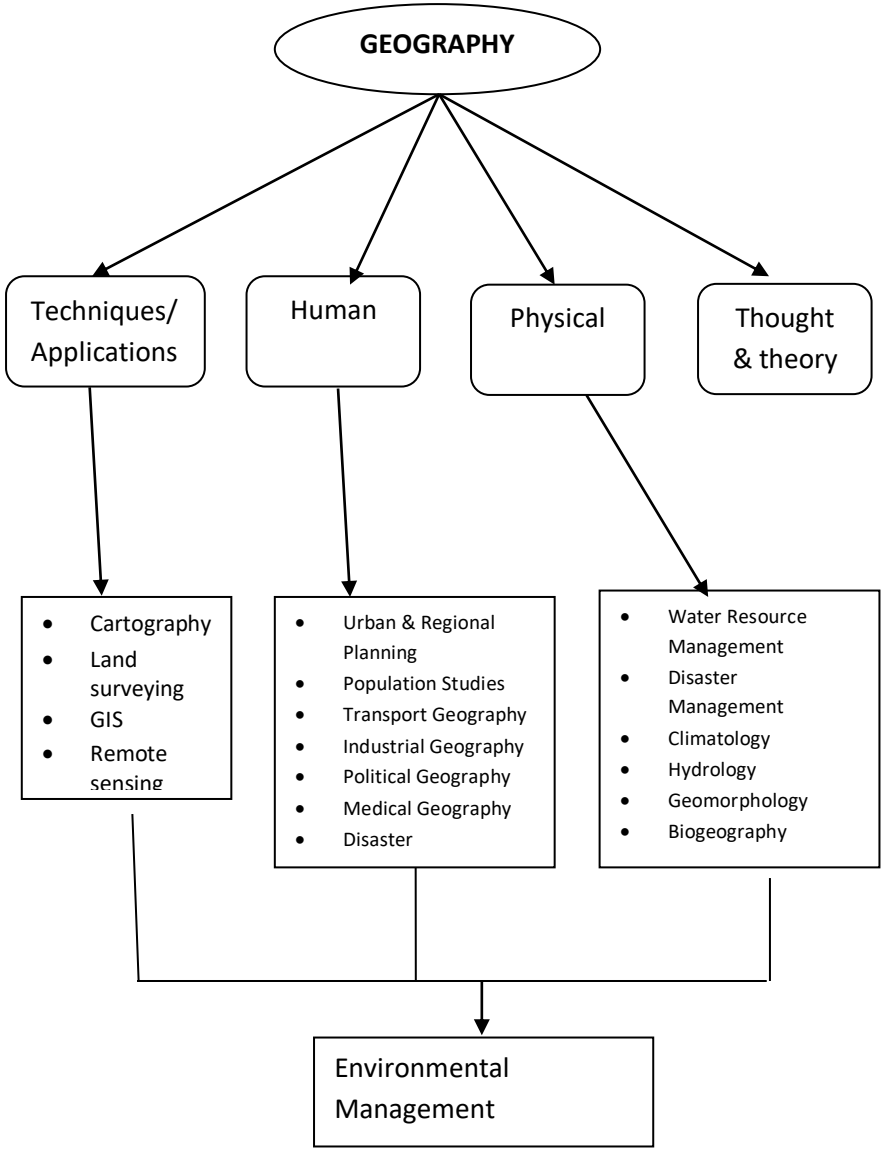
2.2 AIM OF THE PROGRAMME

The broad aim is to produce both theoretically and practically sound Geographers and environmental managers who can make meaningful contributions to spatial development, resolve man-made environmental problems and achieve the sustainable development of our nation.

2.3 PHILOSOPHY OF THE PROGRAMME

The philosophy underlying the B.Sc Programme in Geography and Environmental Management is essentially informed by the need to understand the nature, structure, behavior and problems of geographic components on the earth's surface and to proffer solutions to man-environment interaction problems. The programme focuses on optimal mobilization and utilization of the natural resources of our immediate environment, highlights the environmental impacts of our various developmental endeavours with a view to minimizing the adverse effects and maximizing the gains of modern science and technology. Basically, the idea behind the programme is that of developing a specialized skill that can be used to appreciate the dynamics of spatial phenomena as well as the skill that can be used to effectively manage these phenomena for the benefit of man.

GEOGRAPHY AND ITS BROAD AREAS OF SPECIALIZATION



2.4 OBJECTIVES OF THE PROGRAMME

Essentially, the basic objectives of the B.Sc Programme in Geography and Environmental Management among others are:

(i) Give students a sound knowledge of the principles of spatial organization of natural and human phenomena on the earth's surface.

(ii) Make students appreciate the nature and distribution of natural resources and the impact of these on human activities.

(iii) Equip students with suitable analytical and technical skills required for tackling the problems of spatial development.

(iv) Stimulate an awareness for imbibing the necessary skills for environmental conservations, restoration and sustainability.

(v) Enable students to specialize in areas relevant to national development, particularly environmental management.

To this end, final year students are encouraged to specialize in one of the following areas: they are also expected to apply in their research modern techniques in the application areas…

(i) Rural, Urban and Regional Planning.

(ii) Biogeography

(iii) Geographic Techniques/Applications – Cartography, Remote Sensing and GIS.

(iv) Hydrology, and Watershed Management

(v) Geomorphology

(vi) Climatology

(vii) Environmental Impact Assessment

(viii) Population

(ix) Transport Planning and Management.

(x) Cartography

2.5 RATIONALE FOR THE PROGRAMME

As concern for the quality of human environment, global resource abuse and environmental degradation and imbalance between demand and supply of resources increases, there is need to breed a body of highly skilled and equipped manpower to ameliorate resource use and highlight the environmental impacts of our various developmental endeavours. The demand in government circles, parastatals and the oil industry for specialized courses in urban/rural development and environmental resource management deserves attention. The recent upsurge of public and private interest in issues related to the environment and the need to strike a balance between socio-economic development and sustainable environmental resource utilization have further heightened the need for his programme. We also want to make our programme relevant to the Niger Delta Region.

3.0 DEGREE PROGRAMME AND REQUIREMENTS FOR ADMISSION

Entry into the degree programme will normally be through the University Matriculation Examination. Candidates selected on the basis of this examination will also be required to have credit in five (5) subjects including English Language, Geography and others from the Arts, Science or Social Sciences subjects in the

West African School Certificate Examination or the General Certificate of Education or NECO at ordinary level. At least a pass in Mathematics is required.

4.0 COURSE LOAD

The standard course load in the department is five courses per semester, with a total of fifteen (15) units. In addition to the standard course load which is mandatory, students may take elective courses. The extra courses will be graded and the grades will count towards the candidate's degree. The minimum course load for graduation is 120 credit units while the maximum is 138 credit units.

5.0 REQUIREMENTS FOR BACHELOR'S DEGREE

To obtain a Bachelor of Science degree from the Faculty of Social Sciences, a student must:

(i) Complete an approved programme of study consisting of a total course load of not less than 48 courses distributed as follows:

(a) Compulsory university courses: 4 General Studies courses, prescribed for all the students in the University. A compulsory community service course is also recommended for all the students in the University.

(b) Compulsory Faculty foundation courses: foundation courses are prescribed for the Faculty in the 1st and 2nd years.

(c) Major Departmental courses: these are the courses which all Geography and Environmental Management majors must take, especially in the second, third and fourth years.

(d) Electives: 2 elective courses: one each in the first and second semesters of year two.

(ii) Participate in 3 – 6 months industrial training during the second semester of year 3.

(iii) Achieve an overall cumulative grade point average (CGPA) not below 1.00 at the end of every academic year.

(iv) Satisfy all financial obligations to the University, as well as other requirements relating to attendance and character, as may be prescribed by Senate and

(v) Be formally recommended by the board of studies of the faculty for the award of a degree.

EXAMINATIONS

Courses will be evaluated by continuous/course assessment (CA) as well as end of semester examinations.

GRADING SYSTEM

The following grading system shall be used for all students in the department.

Table 1: Grading System

70% above	A	5.0	Very good
60 – 69%	B	4.0	Good
50 – 59%	C	3.0	Average

45 – 49%	D	2.0	Satisfactory
40 – 44%	E	1.0	Weak
0 – 39%	F	0.0	Very weak

Table 2: Classification of Degree

Grade/Class	CGPA
1ST	4.50 – 50
21	3.50 - 4.49
22	2.40 - 3.49
3rd	1.50 - 2.39
Pass	1.00 - 1.49
Fall	0.00 - 0.99

6.0 PROGRAMME STRUCTURE

Year One (100 Level)

First Semester

GES 103.1	Nigerian People and Culture (2 units)
GES 104.1	History and philosophy of Science (2 units)
ECO 102.1	Principles of Economics (3 units)
SOC 102.1	Introduction to Sociology (3 units)
GEM 101.1	Introduction to Physical & Environmental Studies (2 units)
GEM 102.1	Introduction to Practical Geography (2 units)
GEM103.1	Elementary Surveying (2 units)
GEM104.1	Port Harcourt Region (2 units)

Second Semester

GES100.2	Communication Skills in English (4 units)
GES102.2	Logic and Philosophy (2 units)
POL 102.2	Political Analysis (3 units)
GEM105.2	Introduction to Human Geography (2 units)
GEM106.2	The human environment (2 units)
GEM107.2	Elementary Statistics for geographers (3 units)
Gem108.2	Introduction to Environmental Management (2 units)
Total credit units	**18**

YEAR TWO (200 LEVEL

First Semester

GES101.1	Computer Appreciation (2 units)
FSC 2C1.1	Community Service (1 unit)
GEM201.1	Spatial Organization of Society (3 units)
GEM202.1	Hydrology (3 units)
GEM203.1	Climatology (3 units)
GEM204.1	Cartography (3 units)

One elective from outside the Faculty (3 units)

Total credit units 19

Second Semester

ECO 203.2	Economic History (3 units)
CSC 182.2	Application of Computer (3 units)
GEM206.2	Advanced Quantitative Techniques
GEM208.2	Population Geography (3 units)
GEM207.2	Geographic Thought and Theory (3 units)
GEM209.2	Geomorphology (3 units)
GEM210.2	Field Course (1 unit)
Total credit units	**18**

YEAR THREE

First Semester

GEM301.1	Geo-Environmental Research Methods (3 units)
GEM302.1	Rural and Urban Geography (3 units)
GEM303.1	Economic Geography (3 units)
GEM304.1	Biogeography (3 units)
GEM305.1	Transport Geography (3 units)
Gem306.1	Geographic Information System (3 units)
GEM307.1	Geography of Africa with special Emphasis on West Africa (3 units)
Total credit units	**21**

Second Semester

Gem308.2	Applied Geography – Industrial Work Experience – SIWES (9 units)
Total credit units	**9**

YEAR FOUR (400 LEVEL)

First Semester

GEM401.1	Systematic Geography of Nigeria (3 units)
GEM402.1	Contemporary Philosophy & Methodology of Geography (3 units)
GEM403.1	Remote Sensing (3 units)
GEM404.1	Environmental Resource Management (3 units)
GEM405.1	Industrial Geography (3 units)

Select any one course

GEM406.1	Applied Climatology (3 units)
GEM407.1	Urban Planning: Theory & Practice (3 units)
GEM408.1	Watershed Management (3 units)

Total Credit Units 18

Second Semester

GEM409.2	Research Project (6 units)
GEM410.2	Developed and Developing World (3 units)
GEM 411.2	Regional Development Planning (3 units)
GEM412.2	Resource Evaluation & Environmental Impact Studies (3units)

Select any one Course

GEM413.2	Environmental Economics & Resource Analysis (2 units)
GEM414.2	Bio-Diversity & Ecosystem Management (2 units)
GEM415.2	Advanced Cartographic Methods (2 units)

Total Credit Units 17

Cumulative total credit units = 138

7.0 COURSE DESCRIPTION

Year one (100 level)

GES103.1 – NIGERIA PEOPLE AND CULTURE

(1) Economic Landscape of Nigeria
(2) Sociological Landscape
(3) Environmental Issue
(4) Political Landscape of Nigeria Including the Nigeria Civil War.

GES 104.2 - HISTORY AND PHILOSOPHY OF SCIENCE

Man, his origin and nature: man and his cosmic environment, scientific, methodology, science and technology in the society and in the service of man; renewable and non-renewable resource; man and his energy resource. Environmental effect of chemical, plastics, textiles wastes and other materials; chemical and radio chemical hazards. Introduction to various areas of science and technology.

ECO 102.1 - PRINCIPLES OF ECONOMICS

Introduction to the elements of the economy and the basic concepts of economic analysis. The course will discuss the two main contemporary types of economic systems (socialist and capitalist) as well as selected problems of economic policy and planning for development.

SOC 102.1 - INTRODUCTION TO SOCIOLOGY

The study of the social system and its relationship to other systems particularly the political and economic systems. Attempt to understand how social systems evolve, differentiate or

disintegrate. Introduction to basic concepts of sociological analysis, such as role, social structure, function, conflict, class consensus, power, value, authority and culture.

GEM 101.1 - INTRODUCTION TO PHYSICAL AND ENVIRONMENTAL STUDIES

The composition and structure of the lithosphere and hydrosphere. The earth's radiation, atmosphere and oceanic circulation system. Introduction to recycling of matter and energy in ecosystem. Theories of man/environment relationship. Natural processes and environmental relationship. Natural processes and environmental disequilibrium/hazards. Current environmental problems such as air pollution, earthquakes, floods, desertification, erosion, drought and hurricane. The depth and breath of the nature, please of occurrence, effects, causes and methods of prevention of each natural man-induced hazard should be treated.

GEM102.1 – INTRODUCTION TO PRACTICAL GEOGRAPHY

Map reading: representation of relief and recognition of relief forms, analysis and interpretation of cultural features on maps, scales, enlargement and reduction. Graphic and map presentation of geographic data; isoline maps; choropleth maps dot maps flow maps etc.

GEM 103.1 - ELEMENTARY SURVEYING

Conceptual definition and principles of surveying. Basic techniques of surveying and the use of basic old and modern instrument for surveying – Large scale trilateration surveys with chains, tapes, abney level clinometers, prismatic compose etc. Construction and use of levels and staves, sextant, the plane

tables, alidade, plotting grids. Introduction to basic principles of photogrametry, theodolite, total station, and GPS surveys etc. orientation and revision of small scale maps. The course involves practical field exposure of students to the use of surveying instrument.

GEM 104.1 - PORT HARCOURT REGION

Port Harcourt in its regional setting, the physical geography of Port Harcourt including its relief, drainage, soils and climates, the human geography of the region including transport, industries, urbanization, trade, residential neighbourhoods, infrastructure amenities and other public facilities.

GES 102.2 - LOGIC AND PHILOSOPHY

A brief survey of the main branches of philosophy, symbolic logic. Special symbols in symbolic logical conjunction, negation, affirmation, disjunction, equivalence and conditional statements. Laws of thought. The method of deduction using rules of thought. The method of deduction using rules of inference and bio-conditionals. Qualification theory.

GES100.2 - COMMUNICATION SKILLS IN ENGLISH

Effective communication and writing in English, language skills, writing of essays, answers, instruction on lexis, sentence construction. Outline and paragraphs. Collection and organization of materials and logical presentation. Punctuation and logical presentation of papers. Use of library, phonetics, art of public speaking and oral communication.

POL 101.2 - POLITICAL ANALYSIS

Introduction to the basic concepts of political science, and selected approaches to the study of the political system. The

course also deals with issues of methodology and techniques, and the problems and prospects of the comparative study of political systems.

GEM 105.2 - INTRODUCTION TO ELEMENTS OF HUMAN GEOGRAPHY

The scope of human geography and its relationship to physical geography. World population; its distribution and patterns of growth/demographic characteristics of selected populations. Human settlements, evolution; patterns and functions interrelationships between urban and rural settlements. Impact of human activities on the environment at varying levels of technology and population densities. The role of movement flows of people energy and ideas.

GEM 106.2 - THE HUMAN ENVIRONMENT

The course treats the under listed topics. They include:

a. Basic theories of man/environment interaction; determinism, possibilism, and sustainable ethics.
b. Influence/impact of man on land forms, climate, bio-diversity and nature in general.
c. Basic elements and concepts in spatial organization, distiance and spatial behavour as well as the consequences of such behavours in terms of resource depletion, pollution and other man-induced environmental hazards.
d. Environmental challenges and man's responses; relationship between resources, location of human activities, growth and development, settlements and socio-economic activities; rural-urban settlements, rural market

system, industrial activities, agriculture, trade, mining activities etc.

e. Transportation systems and information flows as they affect development, spatial diffusion of socio-economic and political activities and planning.

GEM107.2 - ELEMENTARY STATISTICS FOR GEOGRAPHERS

The place of statistics in research. Review of algebraic operations. Subscriptions and summations. Data description and characteristics. Frequency distributions and graphic presentation. Measures of central tendency and variability. Methods of sampling.

GEM 108.2 - INTRODUCTION TO ENVIRONEMNTAL MANAGEMENT

The course embraces the following: meaning of, and rationale for environmental management; the nature of the environment and environmental resources; human impact on resources and ecosystems; sustainable developing and utilization of environmental resources; concept like conservation, carrying capacity, perception, impact and risk assessment, carrying capacity, perception, and audition; introduction to ISO 14000 standards; EMPs; and environmental policies and laws.

GES 101.1 - COMPUTER APPRECIATION

History of computers. Generalizations and classification of computers. IPO model of a computer. Components of a computer system. Hardware and software and its application. Programming language, organization of data. Data computer techniques. Introduction to computer networks. Use of the keyboard as an

input device. DOS, windows, world processing, spread sheet. Application of computers in medicine, social sciences, humanities, education and management sciences.

FSC 201.1 - COMMUNITY SERVICE

The community service course entails going out to community to work, solving specific problems that ideally require manual labour. It is not intended to be a field application of theory of a concession to the dignity of labour. The point of this course is that it is a profound learning experience, which links academic pursuit to social goals and objectives. Students participate in the choice and development of projects for this course.

GEM 201.1 - SPATIAL ORGANIZATION OF SOCIETY

Some basic concepts of spatial organization; principles of classification of geographical phenomena; growth and spatial distribution of population; production systems, typology and distribution, location, spacing and growth of settlements; movements over space and transport networks. Land-use typology, pattern and interaction.

GEM 202.1 - HYDROLOGY

Scope and branches of hydrology. The hydrological cycle. Hydro-meteorological parameters. Elements of surface hydrology. Through flow and overland flow models, discharge hydrograph. Sub-surface water, artesian system. Water resource inventory and artesian system, water resource inventory and development of water resource schemes.

GEM 203.1 - CLIMATOLOGY

The general circulation of the atmospheric scale and laws of motion. Forces that drive the atmosphere. Major features and

models of the circulation. Weather producing systems air masses and fronts, frontal and non-frontal depressions; tropical systems. Climatic classification and global systems of climate. Man's influence on the atmosphere.

GEM 204.1 - INTRODUCTORY CARTOGRAPHY

History and renaissance in cartography and map making. Techniques of map making. Classification and types, functions and uses of maps. Design and compilation of thematic maps. Nature of cartographic data. Compilation and statistical mapping; choropleths, isopleths, flow maps, pie graphs, bar graphs etc. map projection and lettering techniques. Contemporary application and importance of cartography.

GEM 205.1 - FIELD COURSE

Purpose of field work, classification of field work. Types and identification of field work problem. Field work planning-logistics and materials, safety tips. Field techniques – observation, measurement, field sketching, photography, sketch mapping and transect making. Preparation of field work design and report. The course will also involve 5 – 10 days intensive field studies designed to illustrate the application of the above concepts to topical geographical and environmental management issues.

ECO 203.2 - ECONOMIC HISTORY

Description and analysis of the background, origins and character of industrialization of Europe. America and other selected areas of the world. The course will include topics such as the agriculture revolution, the role of technology, economic change, the role of trade, institutional and structural change and the social and demographic aspects of industrialization.

CSC 182.2 - APPLICATION OF COMPUTER

Introduction to basic programming data types constant and variables. Statement types; assignment statement, input-output statements, control statement.

GEM206.2 - ADVANCED QUANTITATIVE TECHNIQUES

Parametric and non-parametric tests. Regression, correlation and time series analysis. Probability and non-probability sampling techniques, sources of error in data collection. Instrumentation and measurement, questionnaire and intervention designs.

GEM 207.2 - GEOGRAPHIC THOUGHT AND THEORY

History of geographic thought in relation to the history of science. The role of theory in sciences and geography. Method in natural and social science. Nature of problems in geographic research.

GEM 208.2 - POPULATION GEOGRAPHY

Examination of population data sources. Vital statistics censuses and sample survey. Population in history including patterns. Spatial distribution of world population structure fertility, mortality and migration. The world population problem; responses to the world population.

GEM 209.2 - GEOMORPHOLOGY

The meaning and scope of geomorphology. Rock cycle and geomorphic processes. Weathering types and characteristics, landforms traceable to weathering. History and scope of soil geography. Erosion and land degradation. Flood plain management. Land reclamation.

YEAR THREE (300 LEVEL)

GEM 301.1 - GEO-ENVIRONMENTAL RESEARCH METHODS

The nature of environmental data, types and sources of data. Data collection and classification; sampling techniques research design, data analysis, report writing, fieldwork and analysis of data collected in the field. This course includes one week of fieldwork.

GEM302.1 - RURAL AND URBAN GEOGRAPHY

Principles of human settlement. The structure of space distance functions and land use. Rural central places and peasant marketing. Rural transformation, land reforms and effects of improved transport. Rural development strategies. History of urbanization, the pre-industrial and the modern city. The central place theory, city hinterland, and systems of cities. The analysis of urban economic activities, problems of urbanization.

GEM 303.1 - ECONOMIC GEOGRAPHY

Some basic economic principles and concepts; supply and demand, economics of scale, economic rent, comparative advantage and factors of production. Patterns of world economic development. Types of economic systems. Components of an economy, spatial economic theories and production systems, agricultural systems and the role of agriculture in the world economy. World economic activities; fishing, lumbering, mining and manufacturing, transportation, commerce and international trade.

GEM 304.1 - BIOGEOGRAPHY

Vegetation types. Factors affecting flora and fauna distribution at various scales. The concept of the eco-system. The structure and functioning of terrestrial and aquatic eco-systems. Vegetation changes through time; adaptation, succession, and climax. Human impacts on eco-systems, principles of eco-system, conservation and management. Techniques in bio-geography.

GEM305.1 - TRANSPORT GEOGRAPHY

The course will introduce students to the subject of transportation in four main areas. These are the general principles and modes of transport, transport systems on a regional basis, the problems of urban and rural transport and finally the role of transport in regional development planning. With emphasis on such areas as the principal characteristics and organizations of maritime as well as air transport, attempts would be made to treat the problems and prospects of transport, development in the developing countries.

GEM 306.2 - GEOGRAPHIC INFORMATION SYSTEM (GIS)

Methods of storing geographic data charts and diagrams of various sorts, air-photo, satellite images etc. introduction to computers application of storing geographic data-relevant types of hard wares and software. The use of scanning technology to store and preserve drawings and maps on digital form. Methods and tools necessary to convert scanned images into vector format. Image processing. The application of GIS and conservation, transportation planning and management and various of other aspects of spatial policy decision making.

GEM 307.2 - GEOGRAPHY OF AFRICA
[WITH SPECIAL EMPHASIS ON WEST AFRICA]

The course is expected to expose the third year students to several fields of endeavour where the application of Geography and Environmental Management is indispensable in both the public and private establishments. For the entire period of this industrial experience, the students will be closely supervised and monitored. At the end of the exercise a technical report is written and presented as a seminar. A cumulative grade to be scored will be based on practical, technical reports and seminar presentation.

GEM 308.2: APPLIED GEOGRAPHY- Students industrial work experience (SIWES)

This course is expected to expose the third-year students to several fields of endeavor where the application of Geography and Environmental Management is indispensable in both the public and private establishment. For the entire period of this industrial experience, the students will be closely supervised and monitored. As the end of the exercise, a technical report is written and presented as a seminar. A cumulative grade to be scored will be based on practical, technical report and seminar presentation.

YEAR FOUR (400 LEVEL)

GEM 401.1 - SYSTEMATIC GEOGRAPHY OF NIGERIA

A thematic approach to the geography of Nigeria focusing on a range of physical and human phenomena; spatial patterns; ecological zones; growth and distribution of population; natural resources base; agricultural production and marketing system; industrialization; transport; internal and external exchange,

concepts and models; river basins; city and community regions, migration flows, urban systems; modernization; development strategies.

GEM 402.1 - CONTEMPORARY PHILOSOPHY AND METHODOLOGY OF GEOGRAPHY

Current methodology of geographical research including recent paradigm shifts within geography and scientific approach to geographic research; quantization, classification, theories and models, systems analysis and modes of explanation in geography. The future of geography.

GEM 403.1 - REMOTE SENSING

Basic concepts, classification and purpose of Remote sensing. Principles of remote sensing systems; the electromagnetic spectrum. Imaging systems and their capabilities. Remote sensing platforms. Types and use of air photos, instrument and techniques of air photo interpretation. Comparison of maps and air photos. Contemporary application of remote sensing for surveys; population census; environmental management, monitoring of land use/land cover changes, population, and impacts etc.

GEM 404.1 - ENVIRONMENTAL RESOURCE MANAGEMENT

Concepts and practices of applied physical geography systems of land classification and evaluation with special reference to integrated surveys. Compilation of land and water resource maps. Utilization of strategic minerals for national development. Petroleum, solid minerals, forestry, wildlife. Environmental planning policies and processes.

GEM405.1 - INDUSTRIAL GEOGRAPHY

Industrial location theories and trends. Factors of industrial location. Industrial location and time dimension; plant relocation, industrial inertia, and evolution of industrial patterns. Industrial location and regional development. Environmental impact of industrial location and activities. Urban and regional industrial planning with special reference to Nigeria. Central place theory, management of public service centres.

GEM 406.1 - APPLIED CLIMATOLOGY

Application of climatology knowledge in earth and biological sciences; commerce and industry; economic climatology, the management of climatic resources and weather control, introduction to meteorology.

GEM 407.1 - URBAN PLANNING: THEORY AND PRACTICE

This course focuses on the fundamental aims and objectives, scope and contents as well as theory and practice of urban and regional (country/rural) planning discipline. It emphasized planning as a decision making process, the preparation of comprehensive community development plans as policy documents, the evolution of contemporary urban planning ideas and concepts and their significance and relevance to urban and rural planning in the Nigeria context; the theory and practice of physical planning in developing countries; plan implementation.

GEM 408.1 - WATERSHED MANAGEMENT

The role of water in landform evolution, the river basin, form and processes, dynamics of fluvial processes and the relationship between form and processes, dynamics of the urbanization of river

catchments, land use planning and budgeting reclamation studies; erosion control and management.

GEM 409.2 - RESEARCH PROJECT

The objective is to train students in the collection and analysis of data and the write up of results in a meaningful form. Students are expected to demonstrate knowledge of relevant current literature and ability to present information suitably. Approximately 10,000 word dissertation and defended by each student.

GEM 410.2 - DEVELOPED AND DEVELOPING WORLD

Location of developed and developing world, production systems in developed and developing countries. Distribution of income and standard of living. The historical evolution of developed economies. The population issues, international trade and economic order, industrial regions of Europe and America. Location of developing world. The concept of development and attributes of development. Factors of developed and under-development economics. Poverty and income distribution, economic activities.

GEM 411.2 - REGIONAL PLANNING

Concepts and dimensions of planning and regions, regional inequality and the development processes, regional and local planning. Regional imbalances in resource distribution and allocation. Problem of regions identification and planning policies. Problems of planning data and politics of resource distribution in space. Regional planning theories and strategies. Regional planning in Nigeria and planning in contemporary world.

GEM 412.2 - RESOURCE EVALUATION AND ENVIRONMENTAL IMPACT STUDIES

Concepts of resource perception, appraisal, classification, capability assessment and allocation; principles of conservation and carrying capacity. The principles, procedures, processes and practice in environmental impact assessment involving nature, purpose, issues, impact description, identification, prediction, evaluation mitigation, monitoring and auditing.

GEM 413.2 - ENVIRONMENTAL ECONOMICS AND RESOURCE ANALYSIS

Environment, economics, development and ethical issues; sustainable development and measurements; resource degradation, causes and policy responses involving market and policy failures and rapid population growth. Principles of environmental account, valuation, assessment and planning strategies, international environmental issues-trade. Tran frontier pollution and the management of global common resources. Evaluating environmental damage and benefits.

GEM 414.2 - BIO-DIVERSITY & ECOSYSTEM MANAGEMENT

Inventory of biological resources and their spatial distribution. Concepts of bio-diversity bio-degradation and bio-remediation. Forest biomes and their structure. Utilization, monitoring and management of forest, wetlands and other ecosystems and ecological resources. Wildlife and protected area management. Global biodiversity strategies and policies.

GEM 415.2 - ADVANCED CARTOGRAPHIC METHODS

Scope and limitations of visual presentation of statistics. Sources and manipulation of geographic data for visual presentation; criteria of significance and choice of technique. Critical review of diagrammatic techniques, cartographic design and productions; scale and error factors in map design. The use of computer/digital technology, mechanical, optical and photographic aids in cartography and map productions. Contemporary management of cartography to environmental management. The cartography profession.

UNIVERSITY OF PORT HARCOURT

STATEMENT OF ACADEMIC POLICIES
NOVEMBER 2001

The statement of academic policies was issued first in 1977. It was revised in 1983 to reflect the reorganization from a school to a Faculty Department System and in 1990 reflect changes in line with the NUC minimum academic standards. The revision reflects change made by Senate in 1995.

1. ACADEMIC OBJECTIVES

1.1 The academic objectives of the University of Port Harcourt. Shall be:

To contribute to national development, self-reliance and unity through the advancement and propagation of knowledge and to use such knowledge for service to the community and to humanity.

To this end:

1.1.1 Degree programmes shall be provided with the objectives of producing persons who are well grounded in contemporary culture, have sound knowledge of at least one branch of learning, and are intellectually and morally well equipped to make an effective contribution to national development, self-reliance and unity.

1.1.2 Research facilities shall be provided for staff and students and students to undertake research relevant to the development of Nigeria.

1.1.3 Continuing education programme shall be provided for the benefit of persons in the various sectors of the economy and in the public service, with a view to increasing their efficiency and productivity through knowledge of new developments relating to their work.

1.1.4 Programmes shall be provided to assist the local community to benefit from facilities provided by the institution.

2 DEGREE STRUCTURE

2.1 The university shall run degree programme of 4 years for its Bachelor's degree in the Humanities, social sciences, science, Education, and Management science and 5 years in engineering. 4 and 6 years in Health sciences. The basic entrance requirement is the senior secondary school certificate/west African school certificate/general certificate of education 'o' level or equivalent with credits in five subjects, obtained at not more than two sittings. There shall nonnarly be no direct entry into the second year of the degree programme. The degree programme shall have the following provisions.

2.1.1 General Studies Courses

These are courses at appropriate levels of the degree programme, the purpose of which shall be to improve the basic intellectual and communications skills of the students and to promote a continuous awareness and understanding of contemporary society as well as the historical and cultural origins of the peoples of Nigeria.

2.1.2 Foundation Courses

A common core of course in the same faculty from which all students shall take an approved selection in at least the first year, the purpose of which shall be to provide a sound background in general principles and methodology relating to the disciplines in the faculty.

2.1.3 Community Service Course.

This is a filed project towards services to the community or to the University and is an integral part of all degree programs. The objective of the project is to involve both staff and students in a practical way with some of the problems of society as well as with efforts to provide solutions to them, and to inculcate and develop in both staff and student a consciousness of their responsibilities to society and the satisfaction of rendering services to others. The projects, which are practical in nature

require the application of some of the skills being acquired in the degree programme to service to the community, and generally involve manual work. They are credit-earning and are an essential requirement in all degree programme.

2.1.4 Major Courses

These are courses in the students major field of interest. These shall begin as a limited number of major courses in the first two years, and occupy most of the student's time in subsequent years.

2.1.5 Elective Courses

Elective courses offer some opportunities to students to broaden their interest, either within or outside their major discipline. Subject to the advice of their academic adviser, students are encouraged to follow their personal interest in electives.

2.1.6 Scientific Training

In the training of scientists, the programme give adequate emphasis to the practical, social and cultural implications of scientific knowledge and seek to correct some of the disabilities inherent in scientific education in a society that is still largely technologically backward and superstitious. This shall be done even if it requires departure from some of the traditional methods of European and

American scientific education. To achieve these objectives the programme includes training in the mechanical skills that are usually taken in the mechanical skills that are usually taken for granted in technologically more advanced scientist but are usually lacking in our students, and are very vital for scientific innovation and advancement.

2.3 Framework for Degree Structure

The general framework for the degree structure is as follows:

1ST Year

General studies courses foundations courses major courses.
General studies courses foundations courses major courses

2nd Year

General studies courses (where applicable) foundation courses major courses community service courses elective courses.

3rd Year

General studies courses (where application) major courses elective courses industrial training teaching practice/year abroad (where applicable).

4th Year

General studies courses (where applicable) major course.

5th Year

General studies (where applicable) major courses, elective courses (where applicable) projects (where applicable).

6th Year

Major course elective courses (where applicable) seminar courses (where applicable) project (where applicable).

3. REQUIREMENTS FOR MATRICULATION

3.1 University Requirements

1. Five credits in the Senior Secondary Certificate or equivalent, including English, obtained in not more than two sittings.
2. A score in JAMB not below the cut-off point for the particular department in the year in question.

3.2 Department Requirements

In addition to meeting the basic admission requirements of the University, potential students are also required to fulfill the requirements of their respective departments.

3.3 Transfer and Change of Programme

For conditions on transfer or change of programme, please sections see 10 – 11.

4. GUIDELINES FOR COURSE SYSTEM AND INSTRUCTION

4.1 For purposes of teaching and examination, the academic year is divided into two semesters, each of approximately sixteen weeks of teaching.

4.2 Instruction shall be by courses and every proposed course with an outline of contents must be presented to Senate for approval.

4.3 The unit of credit for a course is the credit unit, one credit unit being when a class meets for one hour every week for one semester in a lecture or tutorial, or for 3 hours every week in practical in the laboratory, workshop or field.

4.4 Each course carries 1 to 6 credit units and its duration is one semester.

4.5 The normal course load for a full-time students is 15 to 21 credit units per semester. No student is permitted to register for less than 15 or more than 21 credit units in any semester. This does not apply to students on fieldwork/industrial attachment/teaching practice on vacation periods.

4.5 The normal course load for a full-time students is 15 to 21 credit units per semester. No student is permitted to register for less than 15 or more than 21 credit units in any semester. This does not apply to students on fieldwork/industrial attachment/teaching practice on vacation periods.

4.6 Prerequisites and concurrent requirement for courses may be waived at the discretion of the faculty teaching the course for which they are prescribed upon the recommendation of department of offering the course.

4.7 Every course shall be continuously assessed, and examined at the end of the semester in which it is given.

Reseat examination have no place in the course credit system and are not permitted.

5. GENERAL REQUIREMENTS FOR DEGREE PROGRAMME

5.1 Programme

5.1.1 To obtain a degree in the University of Port Harcourt, students must complete the approved programme of study in their Department and all courses which the programme specifies must be passed. All students are urged to familiarize themselves with the specific requirements for a Bachelor's degree in their Department, as specified in the current brochure for the Faculty or Department.

5.1.2 It is the responsibility of each Faculty and Department to ensure that copies of a brochure with correct details of all current programmes are available to each set of incoming students.

5.2 Students will graduate on the programme which was in effect in their Department at the time they were admitted into the Department.

5.3 The pass mark for undergraduate course is 40% except for the College of Health sciences where it is 50%.

5.4 Each Faculty and Department will specify its own minimum requirement for the award of its degree, subject to a minimum of 120 credit units degree, subject to a minimum of 120 credit units and a maximum of 148 credit units for a 4 year programme or a minimum of 150 credit units and a maximum of 210 credit units for a 5 year programme. A well balanced programe should require between 120 and 148 credit units for a 4-year programme

and between 150 and 210 credit units for a 5 year programme to be taken.

5.5 Each Faculty and Department must specify the minimum number of units which must be passed in order to graduate.

5.6 All registered courses other than audited courses must be passed.

5.7 When re-registering failed courses, students must not exceed the maximum number of 24 credit units for one semester. Any courses which would cause the maximum to be exceeded must be deferred to the following academic year.

5.8 Grade points earned at all attempts at a particular course count towards the CGPA.

5.10 Students are not allowed to repeat a course which they have passed.

5.10 The various kinds of courses available are as follows:

5.10.1 General Studies Courses:

General studies courses are university-wide and the appropriate combination of courses specified by the students faculty and department must be passed.

5.10.2 Foundation Courses

Various foundation (or faculty-wide) courses for the first two years study are prescribed by each Faculty. Departments specify the particular foundation courses which their students must take.

5.10.3 Major Discipline Courses

Courses in the major discipline occupy most of the curriculum in the third and subsequent years of the regular four-year structure. All students are advised to be acquainted with the requirements of their Faculty and Department.

5.10.4 Community Service Course

One community service course must be passed.

5.10.5 Elective Course

Every programme must include some provision for elective courses.

6. REGULATIONS FOR DIPLOMAS, CERTIFICATES AND BASIC STUDIES

6.1 Diploma, certificate and basic studies programme have their own regulations which must be sought in the appropriate brochure.

7. ACADEMIC ADVISERS

7.1 Every student is attached to an Academic Adviser who is a member of the academic staff and who will advice him/her on academic affairs as well as on personal matters. Academic advisers are expected to follow their students' academic progress and provide counseling to them.

7.2 It is the duty of the Head of Department to assign an academic adviser to each student at the beginning of each session.

7.3 Academic advisers should give clear information on the notice-boards about appropriate times and places at which they will be available to students who wish to consult them.

8. REGISTRATION OF COURSES

8.1 The period for normal registration is the first week of each academic year. Excluding the orientation week.

8.2 The period for late registration is the second week of the first semester of the academic year. Late registration will attract surcharge penalty.

8.3 Course registration is the responsibility of the student's parent Department. The Head of Department signs for all the courses registered.

8.4 In registering students, the parent Department should ensure that students re-register for all previously failed courses in which the programme requires a pass, and meet the prescribed requirements for each course registered; furthermore, that the total credit units registered are not less than 15 nor more than 24 per semester (cf 4.5 and 5.7).

8.5 Any registration completed after the time specified will be null and void and will not be credited to the student even when he/she has taken and passed an examination in the course.

8.6 Students are not allowed to sit for examinations in courses for which they have not previously registered. Such

actions are fraudulent and culprits will be appropriately disciplined.

8.7 Any genuine request for late registration must be mad in writing to the Head of Department, and a late registration fee, whose amount is reviewed each year in line with the cost of living, must be paid to the Bursar. Forms for late registration will be given out only when the appropriate receipts are documented in the form.

8.8 A list of students registered for each course should be kept (see appendix 1). This list should be displayed for one week immediately after the close of registration for necessary corrections.

8.9 The parent faculty and the parent Department retain one copy each of this list and forward three copies to the teaching faculty to be distributed as follows: one to the faculty, one to the department and one to the course lecturer. This list becomes the authentic register for the course examination.

8.10 For all students, the following forms are returned to the academic office: form MIS-01 (SIF) for fresh students MIS-02 (course registration form) and MIS-04 (fee form).

8.11 Students should be encouraged to join their professional associations. But the dues for such associations should not be tied to registrations forms.

8.12 Application for adding or dropping a course must be made on the prescribed ADD/DROP form and certified by the registrar after obtaining the approval of the Heads of Departments concerned not later than four weeks before

the examination in each semester. Any change of course made by altering the registration form will be null and void.

9. AUDITING OF COURSES

9.1 Students may attend a course outside their prescribed programme. The course shall be recorded in their transcript only if they had registered for it with the approvalof the Head of their Department and the Dean of their Faculty and taken the prescribed examination. An audited course shall not based in calculating the CGPA.

10. CHANGE OF DEGREE PROGRAMME

10.1 A student who has been admitted to a degree programme on satisfying the minimum requirements for entry into the University as well as course requirements for the Faculty and Department shall not normally be allowed to change until he/she has completed the first academic year in the degree programme. A student awarded a scholarship in a 'discipline different from that for which he/she is admitted shall be allowed to change Faculty or Department to that in which the programme specified by the scholarship award is available, provided that he/she meets the requirements of the Faculty or Department to which a change is desired.

10.2 Application to change Faculty shall normally be made by the student concerned through the Head of the present Department and Faculty, who recommends to Faculty

Board on a prescribed form (in quintuplicate) obtained from tile faculty. Duly completed copies of the change of programme form shall be forwarded to the committee of provost and deans for approval and to the registrar for certification. Thereafter, the registrar shall retain a copy and forward a copy each to the two heads, the respective deans and the student concerned. Interfaculty transfer should be done by the faculty board and the committee of provost and deans should be informed.

10.3 To qualify for consideration to transfer to the professional programme in medicine, engineering and management sciences a student shall be required to obtain a cap A points or above at the time of application.

11. INTER-UNIVERSITY TRANSFER

11.1 A student from another University may seek a transfer to any of the programmes of the University of Port Harcourt. Such applicants must write enclosing relevant credentials and transcripts of academic record, to the registrar who shall normally refer the request to the appropriate Head of Department with the applicant's official transcript. The Head of Department after considering the application shall make an appropriate recommendation through the Dean to the committee of provost and deans. The decision of the committee of provost and deans shall be final. All such application must be processed before the beginning of the academic year.

11.2 All applicants for inter-University transfer shall be required to be in good standing in their previous university.

11.3 A student who has been expelled or suspended from any university for acts of misconduct shall be eligible for transfer to the University of Port Harcourt.

11.4 The residence requirement shall be a minimum of two years.

12 TIME TABLE

12.1 The lecture timetable should be released at least two weeks before the first day of lectures.

12.2 Faculty Officers are required to collate information on the number of students registered for each course in their faculty at the close of registration and forward it to the timetable committee not later than three weeks after the close of registration.

12.3 The examination timetable should be released at least three weeks before the scheduled date of the start of examinations.

12.4 Examinations involving large classes should be conducted in the first week of examinations. At the time of such examination no other examination should be scheduled. So as to have enough space and enable enough invigilators to be available large classes are defined as University wide or faculty wide courses.

12.5 Scheduled times and dates for examinations must be adhered to. If it is found necessary to re-schedule

examination, this must be with the permission of the chairman. Time table committee.

12.6 Because of the constraints of space examinations are currently scheduled to last for three weeks. As soon as adequate classroom space is available this should be reduced to two weeks.

13. TEACHING

13.1 Because of the present lack of teaching space, the existing practice of teaching large classes in a single group may be maintained until the situation improves, but an effective public address system and adequate teaching aids/ assistants must be provide for such classes.

13.2 The co-ordination of the teaching of Faculty and university-wide courses involving freshmen should be restricted to senior academic staff not below the rank of senior lecturer.

13.3 Heads of Departments should ensure that lecturers take their teaching assignment seriously, in particular course outlines based on the approved course description must be made available to students free of charge at the commencement of lectures.

13.4 Continuous assessment normally constitutes 30% of the marks for the course, but may be up to 60% for courses of a practical nature. Continuous assessment must be administered during the teaching period and not as a test immediately preceding the examination nor as an extra question on the examination paper.

14. GRADING SYSTEM

14.1 The following system of grade points shall be used for all faculties.

NEW STUDENTS*		
MARK/LETER GRADE		**SCORE NOTATION POINT**
70% and above	A	5.00
60-69	B	4.00
50-59	C	3.00
45-49	D	2.00
40-44	E	1.00
0-39	F	0.00

14.2 Students are obliged to sit for examinations in all registered courses. Any student who fails to sit for a course examination without satisfactory reason earns the grade of 'F'.

15. COMPUTATION OF GRADE POINT AVERAGE

15.1 Every course carries a fixed number, of credit units (CU), one credit unit being when a class meets for one hour every week for one semester or three hours every week in the laboratory, workshop or field.

15.2 Quality points (Q.P) are derived by multiplying the credit units for the course by the grade points earned by the students: e.g. in a course with 3 credit units in which a

student earned a B with 4 grade points, the quality points are 3 x 4 = 12.

15.3 Grade Point Average (GPA) is derived by diving the quality points for the semester by the credit units for the semester: e.g. in a semester where the student earned 56 quality points for 18 credit units the GPA is 56/18 = 3.11.

15.4 Cumulative Grade Point average (CGPA) is derived by adding the total quality points (TQP) to date: e.g. if the TQP are 228 and the TCU are 68, then the CGPA is 228/68 = 3.35.

15.5 Detailed example of how to calculate GPA and CGPA.

FIRST YEAR, SEMESTER ONE

Course	Credit Unit	Letter Grade	Grade Points	Quality Points	Grade Point average (GPA)	Cumulative Grade Point Average (CGPA)
GEM100	3	B	4	12	QP = 66	TQP = 66
GEM101	2	C	3	6	CU = 17	TCU = 17
GEM102	1	C	3	3	GPA=66/7	CGPA= 66/17
GEM103	4	B	4	16	3.88	3.88
GEM104	5	A	5	25		
GEM105	2	D	2	4		
TOTAL	**17**			**66**		

FIRST YEAR, SEMESTER TWO

Course	Credit Unit	Letter Grade	Grade Points	Quality Points	Grade Point average (GPA)	Cumulative Grade Point Average (CGPA)
GEM106	5	E	1	5	QP = 48	TQP = 114
GEM107	4	D	2	8	CU = 20	TCU = 37
GEM108	5	B	4	20	GPA =	CGPA =
GEM109	3	E	0	0	48/20	114/37
GEM110	3	A	5	15	2.44	3.08
TOTAL	**20**			**48**		

SECOND YEAR, SEMESTER ONE

Course	Credit Unit	Letter Grade	Grade Points	Quality Points	Grade Point average (GPA)	Cumulative Grade Point Average (CGPA)
GEM210	2	E	1	2	QP = 61	TQP = 175
GEM211	3	C	3	9	CU = 18	TCU = 55
GEM212	5	B	4	20	GPA =	CGPA =
GEM109	3	E	0	0	61/18	175/55
GEM110	3	A	5	15	3.38	3.18
TOTAL	**18**			**61**		

SECOND YEAR, SEMESTER TWO

Course	Credit Unit	Letter Grade	Grade Points	Quality Points	Grade Point average (GPA)	Cumulative Grade Point Average (CGPA)
GEM215	3	B	4	12	QP = 59	TQP = 66
GEM216	4	C	3	12	CU = 20	TCU = 17
GEM217	5	B	4	20	GPA =	CGPA =
GEM218	2	F	0	0	59/20	234/75
GEM219	3	C	3	9	2.95	3.12
GEM109	3	D	2	6		
TOTAL	**20**			**59**		

Observe how the course GEM 109 was failed in year 1, semester 2, and computer with F = 0 year 1. It was then re-registered and computed with D = 2 in year II, semester 2. The old grade is not replaced by the new one.

15.6 Grades obtained in all approved courses of a student's prescribed programme, excluding audited courses, shall be used to compute the GPA.

15.7 Where a student has registered more than the allowed number of free elective courses, only the grades obtained in the allowed number of elective courses chosen in the order of registration will be used in computing the CGPA. Other elective course will be treated as audited courses and will not be used in calculating the CGPA.

15.8 Where a student was registered for a course but the result is unavailable, due to no fault of the student, no result will

be recorded for that course and the student will re-register for it in the next academic year.

15.9 Where a student transfer from one faculty to another, only the grades obtained in the new prescribed programme of study will be used to compute the CGPA. Courses which were completed before the change of programme and which are not part of the new prescribed programme will be treated as audited courses.

16. CONTINUATION, PROBATION AND WITHDRAWAL

16.1 Continuation Requirement

The continuation requirement in the University is a CGPA of 1.00 at the end of every academic year.

16.2 Probation

Probation is a status granted to a student whose academic performance fails below an acceptable standard. A student whose cumulative grade point average is below 1.00 at the end of a particular year of study earns a period of probation for one academic session.

16.3 Limitation of Registration

Students on probation may not register for more than 1.8 units per semester. The purpose of the restriction is to give the students a chance to concentrate on improving their performance and thus raising their CGPA.

16.4 Warning of Danger of Probation

Students should be warned by their department if at the end of any semester their GPA fails below 1.00.

16.5 Repeating Failed Course Unit(s)

Subject to the conditions for withdrawal and probation, a student must repeat the failed course units)at the next available opportunity, provided that the total number of credit units carried during that semester does not exceed 24, and the grade points earned at all attempts shall count towards the CGPA.

16.6 Temporary Withdrawal From Study

A student may apply for temporary withdrawal from study for a period of one year which may be renewal up to a maximum of 2 year.

16.7 Withdrawal

A student whose cumulative grade point average is below 1.00 at the end of one year's probation shall be required to withdrawal from the programme.

16.8 Duration of Degree Programmes

A student who, after the maximum length of time allowed for a degree programme, has not obtained a degree, shall be asked to withdraw from the programme. The maximum length of time that a student shall be permitted to spend on a standard 4 year programme shall be 6 years, and on a 5 year programme shall be 7 years. This regulation does not apply to the N4BBS programme, which has its own requirements. In part-time programme, the appropriate ratio should apply.

17. CLASSIFICATION OF DEGREE

17.1 The degree shall be awarded with 1st, 2nd upper, 2nd lower, or 3rd class honours, or as a pass degree. The cumulative grade point averages for these classes shall be:

Class of degree	Cumulative grade point average
	New
1st class	4.50 – 5.0
2nd class upper	3.50 – 4.49
2nd class lower	2.40-3.49
3rd class	1.50 – 2.39
Pass	1.00 – 1.49

* Old and new students are as defined in section 14.1

18. EXAMINATION REGULATIONS

18.1 Examiners should ensure that the question papers are prepared under conditions of maximum security and are ready in time. For all examinations, well packaged question papers must be accompanied by a list of supervisors/invigilators and the relevant forms (see appendices 2 and 3). The examiners should ensure that the question papers, adequately packaged and sealed, are submitted to the supervisor at least one hour before the start of the examination.

18.2 Subject only to administrative supervision by the office of the provost/dean/director, the conduct of course examinations shall be the responsibility of the Head of

Department. The Head of Department should ensure that examination questions are moderated.

18.3 For each examination there should be a supervisor and invigilators in a ratio of at least one invigilator to 50 students, including both male and female invigilators.

18.4 It is the responsibility of the parent department to appoint supervisors and invigilators. The list should be forwarded to the Head of the Teaching Department not later than one week before the commencement of semester examinations. Students should be seated according to their Department and they should be invigilated by academic staff from their Departments.

18.5 Supervisors should be appointed from the rank of senior lecturer and above and invigilators should be other members of academic staff. Part-time teachers, where necessary, are also regarded as internal examiners.

18.6 Supervisor must identify and check students into the examination hall using the authenticated register of students for the course. The student must be show the invigilator his/her registration/identity card on entry to every examination. He/she must leave these on the desk throughout the examination for easy inspection by the invigilator.

18.7 All examination scripts used by the students must be endorsed by the supervisor at least 30 minutes after the commencement of the examination.

18.8 The invigilator must ensure that no student removes from the examination venue any paper or other examination

material except the printed question papers or other examination material except the printed question papers where it is allowed. Answer booklets are the property of the University and must be in the possession of students.

18.9 During examinations the security must be stepped up especially around examination centres, to ensure the safety of staff and students. The security department is to ensure that no persons not involved in the examinations are allowed to loiter around the hall.

18.10 No unregistered students is allowed to take any examination.

18.11 A student should be in the examination room at least 30 minutes before the start of the examination. A student who is up to 30 minute late shall be admitted, but shall not be given any extra time. A student who arrives more than 30 minutes after the start of the examination shall not be admitted. A student may be allowed to leave the examination room temporarily before the end of the examination but must not:

a. Do so during the first hour of the examination except in cases of emergency like illness;

b. Do so unaccompanied Or with his scripts.

18.12 All students must write their name and matriculation number and sign the attendance register within the first hour of the examination.

18.13 All students must write their number (not name) at the appropriate places on the cover and pages of the answer booklet.

18.14 No student shall keep any handbag, briefcase, books, notebooks or paper near him/her during the examination.

19.15 No student shall directly or indirectly give or accept any assistance during the examination, including lending borrowing any material.

18.16 No student shall continue writing when, the end of the allotted time; the invigilator orders all students to stop writing.

18.17 A student shall avoid noise-making and/or communicating with any other student or with any other person, except with the invigilator if necessary.

18.18 Students who disrupt an examination at any venue will have their examination cancelled and they will be required to re-register for the course.

18.19 At the end of the examination the supervisor/invigilator should ensure that the scripts are checked, properly packaged, and returned along with relevant forms to the chief examiner.

18.20 A member of staff who fails to turn up for invigilator shall lose a monthly examination allowance for each offence and be queried for this act the first time. If this is repeated during any other period of examination the member of staff will lose the monthly examination allowance for each offence and will in addition lose the next promotion and be warned in writing by the vice-chancellor.

18.21 The provost/dean is responsible for reporting to the vice chancellor any defaulting invigilator.

18.22 These examination regulations apply to all students studying for the award of University of Port Harcourt degree, diplomas and certifications, and where appropriate to all staff.

19 RESULTS

19.1 Results should be returned in quadruplicate distributed as follows: a copy to the course lecturer, a copy to the head of Department and two copies the Dean who signs and returns one copy of the mark sheet to the Department.

19.2 Results must be submitted not later than two months from the end of the examination, if at the end of the third month the result is not submitted, the Dean should report this to the vice-chancellor and the salaries of those involved should be suspended. Deans must ensure that examination results are presented to the senate not later than three months after the end of each examination period.

19.3 A moderator for an examination must have access to the scripts and the course mark sheet must show an itemized distribution of the score.

19.4 Computation of results should be restricted to academic staff.

19.5 examiners should ensure the security of scripts and the scripts should normally be returned to the Head of Department after one year, scripts are not to be disposed of until after five years.

19.6 Faculty officers, heads of departments, and provost/ directors should ensure that mark sheets and results are treated as high security documents.

20 PROCEDURE FOR CHANGE OF RESULTS

20.1 Results may be changed because of a review or as the result of the discovery of an error or fraudulent change in the recording of either semester or degree results.

20.2 No result/grade approved by the faculty board shall be changed without reference to the faculty board.

20.3 No result/grade approved by senate shall be changed without reference to senate.

20.4 Any application for a change of grade must be made in writing, appropriately routed, giving clearly defined reasons for the change.

20.5 Where the change is suspected to be the result of fraud, it should be investigated at the appropriate level and a recommendation made to senate.

21 PROCEDURE FOR THE REVIEW OF SCRIPTS OF AGGRIEVED STUDENTS

21.1 Students shall be entitled to see their marked examination scripts if they so desire, provided appropriate steps are taken to safeguard the scripts.

21.2 Any student who is aggrieved about the grading of a course examination may petition his/her Head of Department in the first instance. The Head of Department shall refer the petition to the Dean of the Faculty, who

shall cause the scripts to be re-assessed and the scores presented to the Faculty Board for determination.

21.3 A student applying for a review of answer scripts shall be required to pay the improved fee to the bursary department before commencement of the review.

21.4 If the appeal results in a significant improvement (i.e. a change in letter grade) on the students original grade, the fee so paid shall be refunded to the student within 30 days from the release of the result. Students whose letter grade is not marked higher lose their money.

21.5 Application for review of answer scripts must be made not later than one month from the date of publication of results by the faculty.

21.6 The application must be personal, i.e. an appeal by someone for the review of someone else's script shall not be entertained.

21.7 No group appeal by candidates involved in the examination in question (or other group of persons) shall be entertained.

22 PROCEDURE FOR INVESTIGATION OF EXAMINATION MALPRACTICES

22.1 Definition of Examination Malpractice

Examination malpractice shall be defined as all forms of cheating which directly or indirectly falsify the ability of the student. These shall include cheating within an examination hall, cheating outside an examination hall, and any involvement in all illegal and unethical

examination-related offence, forms of cheating are categorized as follows.

A. **Cheating Within an Examination Hall/Room**

1. Copying from one-another/exchanging question/answer sheets.
2. Bringing in prepared answers, copying from textbooks, notebooks, laboratory specimens or any other instrumental aids smuggled into the examination hall.
3. Collaboration with an invigilator/lecture where it involves the lecturer providing written/oral answers to a student in the examination hall.
4. Oral/written, communication between/amongst students.
5. Bringing in preparation answer written on any part of the body.
6. Receiving information, whether written or oral, from any person(s) outside an examination hall.
7. Refusal to stop writing at the end, within half a minute, of the examination.
8. Impersonation.
9. Non-submission of answer scripts at the end of an examination.
10. Illegal removal of answer scripts from the examination hall.

B. Cheating Outside the Examination Hall/Room

1. Plagiarism is a form of examination malpractice and should be investigated and punished in the same way as cheating in the examination hall. Plagiarism is the use of

another person's work without appropriate acknowledgement both in the text and in the reference at the end.

2. Copying laboratory and fieldwork reports and/or term papers of others.
3. Colluding with a member of staff to obtain, or on his own initiative obtaining, set questions or answer beforehand.
4. Colluding with a member of staff to modify, or on his/her own initiative modifying students score cards, answer scripts and/or mark sheets.
5. Colluding with a member of staff in order to submit a new, prepared answer script as a substitute for the original script after an examination.
6. Writing a project, laboratory and/or field reports on behalf of a student by a member of staff, or any other third party.
7. Soliciting for help after an examination.
8. Secretly breaking into a staff office or departmental office in order to obtain question papers, answer scripts or mark sheets or substituting a fresh answer script for the original script.
9. Refusing to cooperate with the faculty investigating panel or the senate committee on examination malpractices in the investigation of alleged examination malpractice.

C. Related Offences

1. Manipulation of registration form in order to sit for an examination for which the student is not qualified.

2. Sitting for an examination for which the student is not qualified as a result of manipulation of registration forms.
3. Colluding with a medical doctor in order to obtain an excused duty/medical certificate on grounds of feigned illness.
4. Producing a fake medical certificate.
5. Assault and intimidation of the invigilator within or outside the examination hall.
6. Attempting to destroy and/or destroying evidence of examination malpractice.
7. Intimidation/threats to extort sexual/monetary/other favours from students by a member of staff in exchange for grades.
8. Offering sexual or monetary favours in order to influence grades.

22.2 Investigation of Examination Malpractice

22.2.1 Any unauthorized material found in the possession of a student shall be seized by the invigilator after the student has signed it acknowledging that it was retrieved from him/her. Refusal to sign is tantamount to acceptance of guilt.

22.2.2 Where the student refuses to sign the invigilator should make a clear statement on the answer sheet and sign.

22.2.3 The student shall, however, not be prevented from finishing the examination.

22.2.4 The invigilator shall, immediately after the examination, submit a written report to the head of department conducting the examination.

22.2.5 The report shall include all necessary information, following the format given in appendix 4.

22.2.6 The department conducting the examination shall set up a committee/panel to examine the merit of the case.

22.2.7 If the department board feels that a prima facie case has been established, the cases shall be presented to the faculty board which shall appoint a panel to investigate the case and report back to the faculty.

22.2.8 If the faculty is satisfied that a case has been established the case should be reported to the senate committee on examination malpractices (SCEM).

22.2.9 The senate committee on examination malpractice (SCEM) shall investigate the case and report to senate for decision.

22.2 10 the investigation of examination malpractice should take as much time as is necessary to ensure the matter is disposed of in a manner, but it must not go beyond the end of the semester following the one in which the offence was allegedly involved in an examination malpractice shall be allowed to register for courses and take examinations in them. But results of the courses shall not be released by the parent or any other department until investigation has been completed and his/her innocence established by Senate.

23 PUNISHMENT FOR EXAMINATION MALPRACTICE

23.1 Any student found guilty of examination malpractice after due process should be expelled from the University.

23.2 This information on punishment for examination malpractice should be communicated to all students and their sponsors before the commencement of each session. It should also be pasted on all notice boards throughout the university and should also be contained in each faculty prospectus so as to give it the widest possible publicity.

23.2 The decision should take effect immediately after the publication.

23.4 Members of staff involved in aiding and abetting students in examination malpractice should be made to appear before an investigation panel. If the member of staff is found guilty, the report should be sent to the appropriate disciplinary committee.

23.4 For students involved in an examination malpractice and proven guilty, senate should take the ultimate decision, while for staff, the appropriate disciplinary committee (as specified in the conditions of service) should forward its recommendation to council.

23.5 For students involved in an examination malpractice and proven guilty, senate should take appropriate disciplinary committee (as specified in the conditions of service) should forward its recommendation to council.

24 SECRET SOCIETIES/CULTS

24.1 Secretary societies/cults are anti-social and are banned by the University. Any student proved to belong to a secret will be expelled.

APPENDIX 1:

LIST OF STUDENTS REGISTERED FOR A COURSE

SESSION ……

COURSE NUMBER …….

COURSE TITLE …….

TEACHING DEPT …….

PARENTS DEPT …….

TEACHING FACULTY …….

PARENT FACULTY …….

FOR USE DURING REGISTRATION					**FOR USE DURING EXAM**	
S/N	**Mat. No**	**Name**	**Gender**	**Signature**	**Mat. No**	**Signature**
1						
2						
3						
4						
5						
6						
7						
8						
9						
0						

1						
2						
3						
4						
5						
6						
7						

APPENDIX 2:

Examination supervisor's report

COURSE NO:……

COURSE TITLE:……

DATE OF EXAMINATION:…….

VENUES USED:……

THE INVIGILATORS ALLOCATED	THE INVIGILATOR PRESENT

CONTINUED ON REVERSE PAGE IF NECESSARY

TOTAL NO. OF STUDENTS PRESENT

TOTAL NO. OF SCRIPTS SUBMITTED

COMMENTS ON THE EXAMINATION

……

……

……

……

……

(CONTINUE ON REVERSE PAGE IF NECESSARY)

NAME OF SUPERVISOR:……..

SIGN:……

APPENDIX 3:

COURSE NUMBER……

COURSE TITLE……

DATE OF EXAMINATION……

VENUE OF EXAMINATION STARTED……

TIME OF EXAMINATION STARTED……

NUMBER OF STUDENTS…….

NUMBER OF ANSWER BOOKLETS USED……

NUMBER OF UNUSED BOOKLETS RETURNED……

COMMENTS ON THE EXAMINATION

……

……

……

……

……

……

(CONTINUE ON REVERSE PAGE IF NECESSARY)

NAME OF INVIGILATOR

SIGN…….

APPENDIX 4

REPORT OF EXAMINATION MALPRACTICE

NAME OF STUDENT/STAFF……

STUDENT'S REGISTRATION/MALTRICULATION NUMBER

……

STUDENTS/STAFF DEPARTMENT…….

…….

COURSE NUMBER (If Applicable)……..

LOCATION OF EXAMINATION MALPRACTICE……

……

DATE AND TIME OF EXAMINATION (if Applicable)……

……

EXAMINATION OFFENCE (with evidence/statement if any)

……

……

……

……

……

……

(CONTINUED ON REVERSE PAGE IF NECESSARY)

CHIEF INVIGILATOR, INVIGILATOR'S SIGNATURE (If Any)

STUDENT'S COMMENT (If Possible)

……

……

……

……

(CONTINUE ON REVERSE PAGE IF NECESSARY)

STUDENT'S SIGNATURE (If Possible)……

DATE:……

APPENDIX 5

UNIVERSITY OF PORT HARCOURT

ADD/DROP COURSE REGISTRATION FORM

…… SESSION

To be completed in quadruplicate: (1) Dean's Office (2) Exams & Records (3) Department and (4) Student's Copy.

Name ……

(SURNAME) (OTHER NAMES)

Matriculation No…….

Department……...

Year of Study ……..

COURSE TO BE DROPPED

Serial No.	Course No.	Course Title	Credit Units	Lecturer's Signature and Date
1				
2				
3				
4				

COURSE TO BE ADDED

Serial No.	Course No.	Course Title	Credit Units	Lecturer's Signature and Date
1				
2				
3				
4				

The above change are approved

Name……

Signature……

Date……

Academic Adviser ……

Head of Department……..

Dean……

POST GRADUATE PROGRAMME IN THE DEPARTMENT

GENERAL INFORMATION

- Postgraduate Diploma in Geography and Environmental Management (PDGEM)
- Master of Science Degree in Geography and Environmental Management (M.Sc)
- Professional Masters (M.Sc) Degree in Disaster Risk Management & Development Studies
- Doctor of Philosophy in Geography and Environmental Management (Ph.D)

1. POSTGRADUATE DIPLOMA IN GEOGRAPHY AND ENVIRONMENTAL MANAGEMENT (PDGEM)

1.0 Introduction

Geographical studies have remained so dynamic that the department of Geography & Environmental Management in the University of Port Harcourt cannot be indifferent. In response to the contemporary challenges in its operational environment, where up-to date geographical information and effective environmental management practices are in dire need, the review and expansion of courses and programmes offered in the department has become imminent.

The postgraduate diploma in Geography and Environmental Management (PDGEM) is therefore

designed to bridge the gap between the B.Sc and M.Sc degrees for those whose B.Sc graduation grades may not qualify for a direct admission into the M.Sc programme. It also provides the opportunity for non-geographers, environmental managers, planners, scientists and other allied professionals who may not have a background in geography, but are stakeholders in environmental issues.

2.0 Aims and Objectives of the Programme

The postgraduate Diploma in Geography and Environmental Management (PDGEM) is designed to:

a. Advance the knowledge and training skill of geography and environmental management practitioners in important academic specialization and manpower needs for public and private sectors.

b. Enhance the admission potentials into the departmental M.Sc and Ph.D programme by providing geography and environmental management foundations for non-geography graduates.

c. Provide modern training in geo-informatics aimed at improving the process and delivery of spatial data collection and handing for which the old manual and conventional techniques have become inadequate.

3.0 Admission Requirements

Admission is open to graduates of this university and other approved universities recognized by senate with a minimum of a bachelor's degree in sciences, Social

Sciences, Medicine, Agriculture and Forestry, Environmental Science, Engineering, Urban and Regional Planning, Surveying, Architecture etc. candidates who possess a lower class degree but have relevant working experience in the specialized areas of the discipline may also be considered.

4.0 Duration of the Programme

The PDGEM programme is designed to last for one academic session of two (2) semesters commencing from the normal university of Port Harcourt calendar year and ending at the end of the normal session.

5.0 Mode of Application

Request for application forms should be made to the graduate school and such requests must be accompanied by bank draft made payable to the University of Port Harcourt with the candidates name, address and course applied for, written at the reverse side. Other information are as advertised by the graduate school.

6.0 Programme Requirements

a. Registration of courses and credit load

i. Candidates must register for six compulsory courses in the first semester and four in the second semester in addition to research project. All courses are three (3) credit units except the research project, which attracts six (6) credit units.

ii. The total credit load required for graduation is 36 credit units.

b. Graduation requirements to qualify for the award of the PDGEM, a candidate must have.

i. Registration and passed all the prescribed courses for their programme option with a grade of at least C:

ii. Undertake a field practical and present a seminar in area of specialization arising from it. Candidate must also participate in seminar discussions, obtaining a grade not less than C.

Submit four binded copies of a research project in an area of specialization. The thesis should not be more than 60 pages of A 4-size paper, or 20,000 words.

iv. Pass an oral examination in defense of the thesis before a panel of examiners set up in accordance with University regulations.

7.0 Course Description

7.1 Postgraduate Diploma Geography and Environmental Management

S/NO	COURSE CODE	COURSE DESCRIPTION	CREDIT
	FIRST SEMESTER		
1	PDGEM701.1	Introduction to Geo-Environmental thought and theory	3
2	PDGEM702.1	Introduction to Geo-Environmental Research	3

3	PDGEM703.1	Introduction to Geo-Informatics	3
4	PDGEM704.1	Fundamental of Physical Environment	3
5	PDGEM705.1	Ecology of Natural Resources	3
6	PDGEM706.1	Fundamental of Human Geography	3
	Total		18
	SECOND SEMESTER		
1	PDGEM707.2	Spatial Aspect of Development	3
2	PDGEM708.2	Global Environmental Change	3
3	PDGEM709.2	Environmental Resource Management and Planning	3
4	PDGEM710.2	Transport and Tourism	3
5	GEM711.2	Advance Cartography & Map Analysis	
6	PDGEM712.2	Seminar	3
	Total		18

8.0 Course Assessment

Each course will be assessed on the basic of

a. 40% continuous assessment
b. 60% end of semester written examination candidates are expected to obtain a minimum grade of 'C' (50%) in each course requested for and in the seminar in order to be

awarded the postgraduate diploma in geography and environmental management (PDGEM).

Grades per performance shall be:

A = 70 - 100%

B = 60 - 69%

C = 50 - 59%

F = 0 - 49%

9.0 Diploma Classification

The PGD in geography and environmental management will be awarded with distinction, upper and lower credit, and a merit. The cumulative grade point for classification shall be.

Distinction …… 4.50 - 5.00

Upper credit ……. 4.00 - 4.49

Lower Credit …….. 3.50 - 3.99

Merit …….. 3.00 - 3.49

Fail …… 0.00 - 2.99

10. COURSE DESCRIPTIONS

FIRST SEMESTER PDGEM

701.1: Introduction to Geo-Environmental Thought and Theory

Introduction to basic concepts of geo-environmental thought in relation to the history of science. The role of theory in science and geo-environmental management methods. In natural and social science.

PDGEM 702.1: Introduction to Geo-Environmental Research

Parametric and non-parametric tests. Regression, correlation and time – series analysis. Probability and non-probability sampling technique, multivariate classification, grouping and regionalization. Spatial analysis techniques. Questionnaire design and survey

PDGEM703.1:Introduction to Geo-Informatics

Introduction to Geo-Informatics concepts, technology and functional components. Basic principles of geo-environmental data acquisition/storing, data analysis. The use of relevant types of computer hardware and software e.g. scanning of maps into digital format. Digital image processing, methods and tools necessary for conveting scanned images into vector format. The application of GIS to Geo and Environmental investigations, analysis and visual presentations. Selected application case studies e.g. land use planning, transportation planning resources planning, conservation, spatial policy decision making etc.

PDGEM704.1: Fundamentals of the Physical Environment

This cause reviews the composition and structure of the lithosphere. The earth's radiation, atmospheric and oceanic circulation systems. Introduction to recycling of matter and energy in the ecosystem. Theories of man-environment relationship. Natural processes and environmental disequilibrium hazards. Current environmental problems such as air pollution, earthquakes, global warming, floods, tropical storms.

The depth and breadth of the nature, place of occurrence, effects causes and methods of prevention of each natural or man-induced hazard should be treated.

PDGEM705.1: Ecology of Natural Resources

This course examines the ramifications of vegetation factors affecting flora and fauna distribution at various scales. The concept of ecosystem natural resources, ecological economics. The structure and functioning of terrestrial, and aquatic eco-system. Vegetation dynamics, adaptation, succession and climax. Farming systems, rural resources conservation/management.

Techniques in natural resources conservation: sustainability resource systems and sustainable resource use. Eco-service of natural resources. Resources and the perception of limits: global commons such as challenges, environmental regulations etc.

PDGEM 706.1: Fundamentals of Human Geography

The course offers insight into the interrelationships between the earth and man with emphasis on basic concepts of population, settlement, human activities, resources, spatial movement and land use. It covers theoretical spatial movement and land use. It covers theoretical bases of these concept and their applications to human affairs in the area of production, distribution and consumption of goods and services: political organization: development process and planning process.

SECOND SEMESTER

PDGEM 707.2: Spatial Aspects of Development Planning

This course encapsulates basic concepts of spatial organization principles of classification of Geo-Environmental phenomena; philosophical and theoretical aspects of planning; planning principles, research procedures and techniques; planning

processes, theories , policies and practices in Nigeria. Elements of rural, urban, regional and environmental planning.

PDGEM 708.2: Global Environmental Changes

This highlights the concept of global environmental change-physical chemical, biological and ecological perspectives. Understanding the earth system and processes. Causes and consequences of global environmental change-population, global emissions industrialization, deforestation, agriculture, tourism waters, natural causes. Responding to global environmental change. Social and economic dimensions of global environmental change. International environmental laws policies environmental politics and conflicts.

PDGEM709.2: Environmental Resources Management

This course provides both the theoretical and conceptual foundation and practices of applied physical geography. Systems of land classification and evaluation with special reference to integrated surveys. Compilation of land and water resource maps. Utilization of strategic minerals for national development. It focuses on environmental resource degradation, balance and human live-hood techniques for sustainable development, and bio development.

PDGEM710.2: Transportation and Tourism Management

This course will introduce students to the subject of transportation in four main areas; these are the general principles and modes of transport, transport systems on regional basic. It will also review the nature of tourism leisure and recreation. The concepts of ecotourism and tourism definition and relationships. Globalization and ecotourism. Development. Ecotourism programme planning

and development, ethics, feminism tourism. Attempt will be made to treat the problems and prospects of transported development in the developing countries.

PDGEM711.2: Advance cartography and map analysis

PDGEM712.2: Seminar

11. MASTER OF SCIENCE DEGREE IN GEOGRAPHY AND ENVIRONMENTAL MANAGEMENT

1.0 General Information

The department offers the Master of Science (M.Sc) degree programme in human geography, physical geography and environmental management, with emphasis on the following area of specializations:

a. Rural land use and rural development
b. Urban geography
c. Transport development planning
d. Biogeography
e. Climatology
f. Geomorphology
g. Environmental management

2.0 M.Sc Admission Requirements

Admission is open to holder of a good honours degree in Geography and Environmental Management of not less than 3.00 point on a five point scale or honours degree with a good postgraduate diploma in Geography and Environmental Management of the University of Port Harcourt, or other institutions recognized by Senate.

3.0 Award of M.Sc Degree

To qualify for the award of the M.Sc degree a candidate must:

a. Complete 36 semester hours consisting of 27 semester hours of taught course and a seminar of 3 semester hours. Candidates must score not less than the grade 'C' in any of the courses;
b. Satisfactorily defend a six semester hours thesis written in his/her area of specialization.
c. Meet all financial obligations to the university as well as other requirements relating to residence and character as may be prescribed by senate on the recommendation of the graduate school. At present the residence requirement is 12 months. i.e. 2. Semesters, plus the long vacation for full-time students, and 2 calendar years for part-time students;
d. No candidate may be registered for the M.Sc degree for more than three-calendar year if a full-time student or for more than five years if a part-time student. In exceptional circumstances senate on the recommendation of the graduate on the recommendation of the graduate studies committee and approval by the graduate school, may waive this rule;
e. No courses taken more than four years prior to the effective date of admission of a candidate to a higher degree will be credited towards the fulfillment of the requirements of that degree.

4.0 Additional Course Requirement

In addition to the compulsory courses in the department and major field of specialization, a candidate must take a course in any cognate minor area of specialization.

5.0 Part-Time Candidates

Part-time candidates must provide evidence that they are:

i. Engaged in approved employment:
ii. Can devote a good proportion of their normal working year to their studies;
iii. Will be available for attendance at courses, seminars and for regular consultant with their supervisors.

6. Dissertation

Thesis shall be original work, presented in accordance with regulations approved by senate on the recommendation of the examiners which must include the dissertation supervisor and one external examiner. A minimum grade of 'C' for the thesis and for its defense is required for a pass.

6.1 General Compulsory Courses

6.1.1 Courses Description

6.1.2 GEM 801.1 Theory and Methods in Geography

The scientific methodology and geography. Hypotheses, models, theories and laws in geography. Normative, positive and systems theories in geography. Space-time concepts. Positivist, structural

reflective and committed explanation in geography (compulsory for all students).

GEM801.1: Techniques And Methods Of Research

Covers various techniques and methods of geographical research including; sampling; questionnaires design; formulation and testing of hypothesis multi-variete analysis techniques; linear programming; computer – aided analysis; cartographic design. (compulsory for all students).

GEM802.1: Geo-Information and Remote Sensing

The course focuses on the nature, sourcing and mapping of spatial data; geo-referencing of spatial data; spatial editing, input and management; raster and vector data analyses; GIS models and modeling; and environmental applications. Also covers principles of Remote sensing, types and application to environmental issues. (Compulsory for all students).

GEM803.1: Entrepreneurship in Geography & Environmental Management

The concept of entrepreneurship; small-scale enterprise; project identification selection. Formation and appraisal; project financing, ownership structural; management and franchising. Selected area of entrepreneurship – surveying, cartography, GIS, environmental consultancy, air quality assessment, etc (compulsory for all students).

GEM804.2 M.Sc Dissertation

The thesis shall be original work on an approved topic in the candidate are of specialization, and in accordance to the regulations of graduate school as approved by senate. The dissertation expected to contribute to knowledge in a chosen

empirical and contemporarily area of geography and environmental management.

6.1.2 Area of Specialization

A. M.Sc in Rural Land-Use and Rural Development

This involves study of rural areas; concepts theories, land use systems issues and principles of resource identification, conservation and management. Examinations of selected rural problems and issues with an emphasis on strategies of rural transformation, resource conservation and management, and urban-rural integration, policies and methods for prevention of rural environmental degradation.

GEM811.1: Rural Population and Settlement

Focuses on the spatial structure of rural population and settlements, problems of rural habitant, functions of rural settlements. Other themes are rural-urban contracts and interactions, location and functions of rural markets as well as analytical techniques and conceptual models for national development of rural environment.

GEM812.1: Agricultural Land Use

This covers various aspects of agricultural land use including physical environmental base, spatial patterns of rural economics, and systems of agricultural land use. Others are agricultural locations theories and optimization models, land tenure issues, and land use survey classification and planning. The course also examine population land use relationships, processes of agricultural change and diffusion models.

GEM813.2: Tropical Agriculture

This gives insight into the import of agriculture in the tropics, problems of development and productivity etc others themes include agriculture potential in the tropics, agricultural policies, and industrial-agricultural integration problems it examines geographical, social, economic and political problems confronting agricultural transformation in the tropics. Comparison and of tropical agriculture and agriculture in advanced economics is an essential theme.

GEM814.2: Seminar on Rural Development Planning

This emphasizes strategies and methods of rural development rather than policies and practice. It examines strategies and method of rural development planning in historical perspective, the causes of failure of the adopted strategies, and why rural underdevelopment in Africa lingers till 21st century. New reformulated strategies that are ecological, tradition-based and relevant methods are advanced.

B M.SC IN URBAN GEOGRAPHY

GEM820.1: Urbanization in History

This will evaluate the hypotheses of urban origins, the urbanization hi the developed and developing countries and the pre-industrial city. It also considers the nature of cities for specific historical periods e.g. Greek and Roman towns, early medieval towns and development of African urban system.

GEM821.1: Urban Economics and Land use Analysis

This course examines the general models of urban spatial structure followed by a detailed study of urban modeling. Others include analysis of urban land use such as residential industrial, commercial, slums, transport, recreational etc. it also gives broad review general principles underlying ultra-urban business activity location decisions, urban rent and land values. Themes to be considered include basic and non-basic output, analysis and agglomeration and de agglomeration analysis.

GEM822.1: City Systems in the Third World Countries

Basic problems and basic concepts in the third world cities. Past growth present processes of change and city-system growth and development. The quality of life service availability. It also examines rank-size rule, urban primary, urban hierarch. Urban sphere of influence, growth pole and center-periphery model, and regional economic impact.

GEM823.2: Urban Environmental Management

This course examines in details urban management dimension contemporary urbanization problems; housing, transport, unemployment, and social facilities and services provision urban garbage. It also deals with management techniques, policy approach, environmental planning challenges.

GEM824.2: Seminar on Urban Policies and Policy Making

Analysis of local state and federal decision making processes as they affect policies in urban areas impact of the forces of urban growth and changes on the urban political system, centralization and decentralization in the metropolis and inter governmental relations.

C. M.Sc in Transport Geography

GEM830.1: Transportation Modes and Technology

History of transport development; management of technology in transport behavour, characteristics; comparative advantages and disadvantages, infra structure/network; etc. Environmental factors in transport, technical aspects of transport and world standards. Vehicle control and operation. Energy and transport, model system and environmental pollution.

GEM831.1: Theories and Models in Transport

Transport theories, concepts and models; the gravity model, the spatial interaction model etc. models of network evolution and development; theories of mode choice; theories of competition in transport; transport and envelopment etc.

GEM832.2: Transport Planning and Management

Land use/transportation planning; trip generation; trip distribution traffic assignment traffic forecasting; urban transport and public transport in Nigeria. Transport flows and model split, transport competition. Transport data; origin –destination matrix. Public transport and mass transit; public and private involvement in public transportation. Organization control of transport; laws, and regulation to improve traffic now traffic signal and control; pedestrianisation; builder and user cost; operation and administration of public transport, public transport in Nigeria-the different programme of local government state and the federal government.

GEM834.2: Seminar in Transport Policies and Safety

Transport and development, transport policies and implementation. Evaluation of different transport policies in the different transport sub-sectors. Government and transport licensing. Traffic principles and culture; the Highway code, and other regulations; pedestrian education; defensive driving; law enforcement agency – the police, the federal road safety, SAR unit of NAMA. Institutional framework for transport safety. The role of non-governmental organizations, educational institutions parents, passengers etc traffic accidents and traffic statistics.

D. M.Sc in Regional Development Planning

GEM840.1: Regional Development Theory

This course involves a discussion of the concept of development, regions, structural and dependency theories, and national development process. It will be follow followed by a review of the state of the art of regional development theorizing which will involve an in-depth review of economic oriented theories of regional development and regional domination.

GEM841.1: Techniques of Regional Analysis

This entails advanced appraisal of the various techniques of regional analysis including regionalization, regional economic analysis. Etc other planning statistics include descriptive data analysis. Inferential statistics multivariate technique of spatial analysis of resource (population, settlement, minerals, ecological etc) as they affect location behavour.

GEM842.2: Regional Planning in Developing Countries

Origin of regional development planning, basic concepts of regions and development. Typologies and region. Urbansiation and development process; environmental degradation; slums and squatter settlements. Development policies on the development of problem regions. Regional environmental planning policies.

GEM843.2: Environmental Planning

Fundamental principles, key issues and environmental planning process; legal, ethical economic and ecological foundations of environmental planning; aspects of environmental planning such' as planning for sustainable water and, air quality, solid waste, toxic waste and natural hazards; planning for natural areas such as landscape, wetlands, coastal zones, etc case studies.

GEM844.2: Seminar on Regional Planning Policies and Strategies

This review issues in regional policy evolution development plans. It took into other areas such as philosophy of regional planning, evolution of regional development planning etc. Grass root approach to regional development contemporary strategies regional development. It will also discuss public policy and regional and regional developed and developing world, as well as planning strategies for rural urban region.

E. M.Sc in Biogeography

Ideas and concepts of man and his environments; the environment as man's life support system fundamental processes determining the nature of and spatial patterns in the biosphere; human impact of major world ecosystems. Research frontiers; biogeography;

experimental design and techniques of biogeography investigation.

GEM851.1: Advanced Vegetation Studies

The course will investigate distribution of natural vegetation and the relationships to soils and climate; vegetation structure, architecture diversity and production; vegetation succession, classification and mapping; structures and functions of Nigeria vegetation types; mangrove, freshwater, tropical rainforest and inventory methods; vegetation management and conservation.

GEM852.1: Advanced Soil Studies

The course will focus on the principles and concepts relating to soil use and management, in the tropical region, tropics include soil classification and mapping; soil properties and characteristics of man soil types; the collection and testing of soil sample parameters; the concept of pardon as it relates to the tropical region; soil degradation and soil conservation practices.

GEM853.2: Seminar on Biodiversity Conservation and Sustainability

The values of biodiversity, sustainability and sustainable conservation, biomes and ecosystems under pressure, agriculture and biodiversity management of forests, wetlands, rangeland and wildlife, convention on biological diversity and implementation process.

GEM854.2: Land Resource Analysis

Economic analysis of existing natural resources complexes in different regions; the classification of land types and assessment of their development potentials; river basin planning; water resource development; perception of the natural environment.

F. M.Sc in Climatology

GEM860.1: Microclimatology

The physical bases of boundary layer climates, climate of vegetal and non-gevetated surfaces and of non-uniform terrain, man modified atmospheric environments. Urban man modified atmospheric environments. Urban climatology, air pollution climatology, air quality assessment, construction and operational air quality impacts and mitigation especially a gas area, air monitoring basics. Material and methods for air quality study, air toxic and air modeling. The air quality act, the measurement and instrumentation for determining boundary layer climates.

GEM861.1: Techniques in Climatology

The basic techniques in weather observation; analysis of data, various atmospheric motions and weather forecasting, satellite climatology. Applications of the basic techniques in radiation climatology, and geographical climatology. It involves climatological models of phenomena of weather and climate, cloud formation airflow over barriers; element' of atmospheric circulation and processes. Models of temperature.

GEM862.2: Agro-Climatology

Climate-crop relation, agro-climatological zonations, weather hazards in agriculture. Weather aspects of crop ests and diseases. Climate and animal husbandary, animal bioclimatology, crop weather models, principles and practice for irrigation. Forestry and water management, weather hazards to forestry. Climate and agricultural planning and development.

GEM863.2: Climate Change

Concepts and definitions of paleoclimatology and climate change, causes of climate change, current evidences of past climate of arid, humid, cold and warm climates. Theories of climate change, humanity, the climate system and climate. Physical and ecological impacts of climate change on agriculture, water resources and water resources management; impact on socio-economic and socio-cultural sectors health, nutrition and human development issues on response measures to global warming and climate change. The role of PICC, the world climate programmes, El Nino southern oscillation events and their implications for weather and climate. International climate negotiations. Climate impact studies.

GEM864.2: Seminar in Climate Resource Management

The concept of climate as a resource, the concept of weather modification and seedling, allocating weather and climate management efforts, cost-benefit analysis of climate parameters. Economic and decision making analyses on management efforts, natural resource view of climate. Climate in economic analyses to climate variability. Determining the sustainability and potential for the implantation of climate policy.

G M.Sc IN GEOMORPHOLOGY

GEM870.1: Geomorphology Research Techniques

Methods of geomorphological investigation; advanced morphometry, materials properties of rocks. Weathering; slope, river glacial and desert processes, methods of dating.

GEM81.1: Rivers Basin Studies

The drainage basin as a physical unit, the parameters and their study. Development problems and practices including design and operation of comprehensive river basin development programmes. Water resource and flood control system.

GEM872.2: Land Resource Analysis

Economic analysis of existing natural resources complexes in different regions; the classification or land types and assessment of their development potentials; river basin planning; water resource development; perception of the natural environment.

GEM873.2: Surface and Groundwater Hydrology

Principles of open channel now, flood routing techniques. Simulation methods. Pervious, impervious and semi-pervious rocks and their influence on porosity. The formation of aquifers and methods of ground water prospecting; instrumentation of well logging.

GEM84.2: Seminar on Tropical Geomorphology

Seminar topic shall be selected from contemporary issues in tropical geomorphology.

H. M.SC ENVIRONMENTAL MANAGEMENT

GEM800.2: Pollution, Toxicology & Waste Management

Covers principles and procedures of pollution studies, monitoring and assessment. Also embraces the principles of toxicology, effects, control and acceptable risk. Environmental technology hi pollution and waste management and basic principles of water, air, noise remediation and risk assessment.

GEM801.1: Environmental Assessments and Modeling

Studies current status or major environmental resources, water, soils, minerals, wildlife, air, energy, ocean and biological resources, wetlands and energy resources. Principles and procedures of ecological risk assessment and environmental modeling socio-economic assessment process; participatory rural appraisals, etc.

GEM802.2: Air Quality Assessment

The course covers atmospheric deposition, transportation; dispersion, types, sources and their effects; air quality assessment, measurement and monitoring; the measurement of climatic and meteorological parameters. Others include air quality management system and ah-quality legislations.

GEM803.2: Environmental Health and Safety (EHS) Management.

The course provides an overview of environmental issues such as the fundamental of developing EHS vision and policies; EHS management systems, strategies and components; EHS legal and regulatory frame work and EHS internal auditing system. It also covers the management of fire protection, occupation health and safety air emission, industrial wastewater, solid and hazard wastes.

GEM804.2: Environmental Laws and Policies.

The basis of national and international environmental laws; environmental issues and policy formulation; the national and international framework of environmental issues analysis; milestones in national and international policy formulation on

environmental issues; policy circle; international treaties and conventions; Kyoto protocol, rio declaration (UNCED Agreements) on environmental and development; law of the sea; environmental and human right; national laws-FEPA decree 1988; harmful waste decree 1988; etc.

GEM805.2: Corporate Environmental Management

The course covers all aspects of environmental economics, auditing, valuation and accounting. Other aspect includes business environmental orientation and challenges; environmental regulations and standards; strategic environmental management; tools of the corporate environmental management; environmental management plans and risk management strategies of corporate organization.

1 DOCTOR OF PHILOSOPHY IN GEOGRAPHY AND ENVIRONMENTAL MANAGEMENT

1.0 General Information

The department offers the Doctors of Philosophy degree programmes in the following areas of specializations.

a. Rural land use and rural planning.
b. Urban geography
c. Transport geography
d. Regional development planning
e. Biogeography
f. Climatology
g. Geomorphology
h. Disaster Risk Management
i. Environmental Management

2.0 Admission Requirements

Admission is open to masters of Science degree in Geography and Environmental Management of the University of Port Harcourt or other institutions recognized by senate with a cumulative grade point average of 3.6 in a five-point scale. All qualified applicants will undergo an admission interview to determine their suitability.

3.0 Course Graduation Requirements

In addition to the compulsory courses in the department and major field of specialization, and to qualify for the award of Doctor of Philosophy.

i. A candidate must sit for and pass with a minimum score of 50% or grade 'C' in the following six courses i.e. GEM901 – 906.

ii. Note that no candidates may proceed to the doctoral dissertation unless the two taught courses – GEM901, 902 and 903, the seminar course GEM 904.

iii. Satisfactorily defend a thesis written in his/her area of specialization.

4.0 Award of Ph.D Degree

To quality for award of Doctor of Philosophy.

i. A candidate must sit for and pass with a minimum score of 50% or grade C in the following five courses i.e. GEM901 – 906.

ii. Note that no candidate may proceed to the doctoral dissertation unless the taught courses, the seminar course, and the comprehensive examination have been passed.

iii. Satisfactorily defend a thesis written in his/her area of specialization.

iv. Meet all financial obligations to University as well as other requirements relating to residency and character, as may be prescribed by senate on the recommendation of the graduate school.

5.0 Part Time Candidates

Part time candidates must provide evidence that they are:

i. Engaged in approved employment:

ii. Can devote a good proportion of their normal working year to their studies;

iii. Will be available for attendance at courses, seminars and for regular consultation with their supervisors.

6.0 Course Descriptions

GEM901: Contemporary Geographic Thought

The course embraces the following themes and issues in contemporary geographic science. An overview of research themes and issues – spatial, ecological and regional analysis; geographic theories and issues of relevance; philosophical and ideological foundations, positivism, hermeneutics, critical theory, postmodernism, constructivism, normative and committed process-form reasoning, spatial aspects of behavioral and cognitive environments.

GEM 902: Advance Research Process and Seminar

Involves themes in research processes; research variables; types of research design; measurement and analysis of geographic

phenomena. It also involves a state of the art thorough review of relevant literature in the field of specialization (i.e. area paper) to be presented in a department seminar. A score of '50' or C grade is required to proceed to proposal stage. NB; the topic for the area paper should come from candidate's supervisor on the prescribed form.

GEM903. Quantitative Geography

The course covers concept in matrix algebra and fitting equations to empirical data, analysis of statistical and geographical series, advance methods in multivariate analysis such as multiple correlation and regression, factor and principal correlation. Others include simulation models, geographic applications of linear programming and introduction to computer programming.

GEM904. Seminar Presentation

All Ph.D candidates shall present at least two seminars. One of which must be on the proposed doctoral research and the other shall be the dissertation progress report.

GEM905. Doctoral thesis

The thesis shall be original work on an approval topic and in accordance with the regulation of the Graduate school. To be accepted, the thesis must be deemed to have made substantial contribution to knowledge.

ACADEMIC STAFF LIST FOR GEOGRAPHY AND ENVIRONMENTAL MANAGEMENT

S/NO	NAME OF STAFF	RANK/DESIGNATION	QUALIFICATION	AREA OF SPECIALIZATION
1	Oyegun, C. U.	Professor	Ph.D, M.Sc, B.Sc (Ibadan), PGDE (Benin).	Geomorphology & Land Resource Management.
2	Akpoghomeh, O. S.	Professor	Ph.D, M.Sc, B. Sc (Ibadan), CMILT	Transport Geography, Tourism Development, Environmental Management and ETA.
3	Arokoyu, S. B.	Professor	Ph.D, M.Sc, B.Sc (UPH) REM USA	Regional/Rural Development, Resource Management, Environmental Management.
4	Umeuduji, J.E	Professor	Ph.D, M.Sc, (Nigeria), B.Sc Calaba.	Geomorphology and Land Resource Evaluation, Hydrology.
5	Obafemi, AA	Professor	Ph.D, M.Sc (UPH), M.Sc (Lagos) B.Sc (Ilorin) REM (USA).	Cartography, Environmental Management, Urban Geography, Techniques/ Application.
6	Mmom, P.C	Professor	Ph.D (Calabar), M.Sc(UPH), B.Sc (Ibadan) REM (USA).	Urban Planning/Resource Management, EIA
7.	Dr. C. F. Igwe	Associate Professor	Ph.D, (Uph), M.Sc (UI), M.Sc(GIS) B.Sc (UPH), PGD	Land Surveying/GIS, Regional Development,

			Surveying (Uyo) FDUS, REM (USA).	Planning, Environmental Management, Techniques/ Application.
8	Dr. (Mrs.) G. C. Emenike	Senior Lecturer	Ph.D (UPH), M.Sc (Benin), B.Sc (Jos).	Transport Geography, Tourism Development and EIA.
9	Dr. M. O. Nwagbara	Senior Lecturer (**ADJUNCT**)	B.Sc (Nigeria), M.Sc(UPH), Ph.D (ABSU)	Climatology
10	Dr. V. E. Weli	Senior Lecturer/HOD	B.Sc, M.Sc (UPH), Ph.D (IU).	Climatology, Environmental Management and air pollution meteorology.
11	Dr. C. H. Wizor	Senior Lecturer	B.Sc, M.Sc (UPH), Ph.D	Urban Geography and Development Studies.
12	Dr. C. I. Ezekwe	Senior Lecturer	B.Sc, (UPH), M.Sc (NAU), Ph.D (ABSU)	Hydrology and Water Resources.
13	Dr. E. I. Elenwo	Senior Lecturer	B.Tech, M.Phil, Ph.D, (RSUST)	Environmental Assessment/Environmental Studies
14	Dr. O. Lawal	Senior Lecturer	B.Sc (UI), M.Sc, (HON) Ph.D (East-London)	GIS, Geo Computer & Environmental Modeling
15	Dr. Daniel Mbee	Senior Lecturer	B.Sc (Uyo), M.Sc(UI) Ph.D. (UPH)	GIS, Urban Studies, Techniques/ Application
16	Dr. O. S. Eludoyin	Senior Lecturer	B.Sc (Ed) Ife, M.Sc (IU), Ph.D (UI).	GIS, Biogeography, Techniques/ Application
17	Mr. N. Deekor	Lecturer 1	B.Sc (Calabar), M.Sc (UPH)	Biogeography
18	Dr. Ogoro Mark	Lecturer 1	B.Sc, M.Sc, Ph.D (UPH)	Coastal Geomorphology

19	Dr. G. O. Chukwu-Okeah	Lecturer II	B.Sc, M.Sc, Ph.D (UPH)	Geomorphology/Soil Studies and Land Resource Evaluation
20	Mr. V. O. Wekpe	Lecturer II	B.Sc, M.Sc, (UPH), M.Sc (Manchester).	GIS, Techniques/Resource and Environmental Management
21	Mr. Sunday, Victor	Lecturer II	PhD (in view), M.Phil (RSUST), M.Sc (OAU), PGD (FUTO), B.Sc, (NIG)	Cartography
22	Mr. M. Kpang	Asst. Lecturer	PhD (in view), M.Sc, B.Sc, (UPH)	Climatology
23	Mr. Ogbonna, Vincent	Asst. Lecturer	PhD (in view), M.Sc, B.Sc, (UPH)	Environmental Mgt.

PROFESSIONAL MASTERS (M.SC) DEGREE IN DISASTER RISK MANAGEMENT & DEVELOPMENT STUDIES

1. Objective of the Programme

The main aim of the programme is to provide a holistic academic approach to intended participants to understand disaster risk management and development issues. The course seeks to provide participants with opportunities for improving their understanding of:

i. vulnerability analysis and patterns.
ii. conceptual approaches to vulnerability across ecological and social dimensions/perspectives;
iii. risk assessment application; and
iv. risk reduction strategies and challenges for Nigeria.

2. Duration of Programme

The professional M.Sc in disaster risk management and development studies shall last normally for three (3) semester and a maximum of six (6) semesters for full time studies and a minimum of four (4) semesters and a maximum of eight (8) semesters for the part-time students.

3. Admission Requirements

Admission to the professional M.Sc degree programme in disaster risk management and development studies is open to holders of;

1. Good honours bachelor degree in social sciences, sciences, engineering, social medicine, environmental sciences, town planning, agriculture, forestry and communication or

formation technology of not less than 3.00 point on a five (5) point scale of the University of Port Harcourt, or other institution recognized by senate.

2. HND with at least upper credit in a related discipline plus a minimum credit level pass (CGPA of 3.5 on a 5.00 scale) from the University of Port Harcourt or other institution recognized by senate.

N/B: Work experience in scientific, management and policy-oriented departments (especially disaster risk management related organizations) of government and private sector will be added advantage).

4. Graduating Requirements

To qualify for the award of the professional M.Sc in Disaster Risk Management and Development Studies, a candidate must:

a. Complete 52 semester hours consisting of taught courses, field practicum and seminar with a score of at least '50%' or the grade of 'C'.
b. Satisfactorily defend a six semester hours thesis with at least a grade of 'C' or score of 'C'.
c. Meet all financial obligations to the University.

5. Course Content

The proposed programme is a blend of concepts, principles policies, legal framework, and strategies on governance and the mainstreaming of Disaster Risk Reduction to be good practices.

6. (a) Course Structure and Description.

6 (b) Course Description.

S/N	COURSE CODE	COURSE TITLE	CREDIT UNIT
1	GDM801.1	Research and Analytical Methods	(3 Units)
2	GDM802.1	Introduction to Hazards and Disaster	(3 Units)
3	GDM803.1	Fundamentals of Disaster Management	(3 Units)
4	GDM804.1	Disaster preparedness and vulnerability reduction	(3 Units)
5	GDM805.1	Assessment of risk, vulnerability and capacity.	(3 Units)
6	GDM806.1	Community Based Approaches to Disaster Management	(3 Units)
7	GDM807.1	Engineering for natural disaster preparedness and mitigation.	(3 Units)
	SECOND SEMESTER		
8	GDM608.2	Geo-Information Space Technology and Disaster Management	(3 Units)
9	GDM809.2	Disaster Response and Recovery Strategies	(3 Units)
10	GDM810.2	Emergency development planning and management	(3 Units)
11	GDM811.2	Capacity building and financing for disaster mitigation	(3 Units)
12	GDM812.2	Public health aspects of disaster management	(3 Units)

13	GDM813.2	Communication and Disaster Information Management.	(3 Units)
14	GDM814.2	Wetlands/Riverine Disaster Management	(3 Units)
	THIRD SEMESTER		
15	GDM815.3	Life Saving Skill Education for Disaster Mitigation.	(3 Units)
16	GDM816.3	Legal Aspects of Disaster Management	(3 Units)
17	GDM817.3	Drylands Disaster Management	(3 Units)
18	GDM818.3	Urban Disaster Management	(2 Units) (Elective) (Seminar)
19	GDM819.3	Field Study	(2 Units)
20	GDM820.3	Master's Thesis	(3 Units)

GDM801.1: Research and Analytical Methods (3 Units)

Nature and characteristics of the research processes and data; instrumentation and measurement; measurement of central tendency, dispersion, variability indices and coefficient of variation. Field work and methods of data collection. Research design, hypothesis testing and the comparison of sample values; probability assessment and the normal curve and multiple liner regression, principal components and factor analysis; canonical correlation.

GDM802.1: Introduction to Hazard and Disaster

(3 Units)

Extreme Geo-physical events; geomophological – such as earthquake, volcanic eruptions, landslides, avalanches.

Atmospheric – tropical cyclones, tornadoes, hail, ice and snow. Hydrologic – river floods/coastal floods, drought, biologic – epidemic diseases, wildfires.

GDM803.1: Fundamentals of Disaster Management (3 Units)

This basically involves major accidents resulting from technological advancement. These include transport accidents – air, train, vehicular and shipwrecks. Industrial failures – explosive and fires, release of radio-active and toxic materials. Construction failures – unsafe public building and facilities involving structural failures and dam collapse, oil spills and fires, mine explosions. Etc.

GDM804.1: Disaster Preparedness and Vulnerability Reduction (3 units)

The course covers the concept and factors in global environmental changes of international dimensions. International air pollution (trans-boundary) pollution) climate change, sea- level rise. Environmental degradation – desertification, deforestation, loss of natural resources, and farming. Super hazards catastrophic earth changes and impacts from near earth objects.

GDM805.1: Assessment of Risk, Vulnerability and Capacity (3 units)

Concern with the general principles of disaster management – disaster event characteristics, characterization of impacts, hazard vulnerability determination, disaster preparedness, risk identification, emergency risk management and risk management framework. Key concepts of disaster risk management, mitigation, response and recovery plan, and emergency management system.

GDM806.1: Community Based Approaches to Disaster Management (3 units)

Provide knowledge in method of risk identification, evaluation and communication. Risk assessment checklist, risk and benefit assessment, social impact assessment process and models, risk prediction, insurance cover.

GDM807.1: Engineering for Natural Disaster Preparedness and Mitigation (3 Units)

Provide detail knowledge on the role of engineering in disaster management. Basic issues are the design and construction of hazard – resistant habitats before, during and after disasters; the construction of disaster shelters, emergency housing retrofitting, building – for- safety, building codes, and provision of critical infrastructure.

GDM808.1: Geo-Information, Space Technology and Disaster Management (3 Units)

Provides knowledge on basic concepts of Remote sensing Global positioning system (GPS),, cartography and geographic information system (GIS), and their possible application for disaster management. Application of network analysis. Buffering and proximity technique used in relief and rescue operations.

GDM809.2: Disaster Response and Recovery Strategies (3 Units)

Seeks to provide adequate knowledge on the immediate and long-term management of post-impact phase of a disaster. Typical field case may be adopted for studies. Involves assessing environmental quality of disaster area-air, water, soil, etc.

GDM810.2: Emergency Development Planning and Management (3 Units)

This course will cover basic development planning and management theories and issues with regards to disaster prone area. It will cover basic concept of development, national development process, regional development theories, planning problem regions, environment planning policies and procedure, development planning best practices.

GDM811.2: Capacity Building and Financing for Disaster Mitigation (3 units)

Provides assistance to national disaster management institutions to formulation and design disaster management strategy. Issues include the role of experts, information dissemination, capacity-building principles, coordination of planning and management teams. It also covers best practice in disasters mitigation financing.

GDM812.2: Public Health Aspects of Disaster Management (3 units)

This course will promote improved disaster preparedness and response in the health sector and increase capacity of health workers and volunteers to response to disasters. Critical issues include; the management and coordination of health personnel and equipment, emergency health facilities, first aids, movement of victims, public health risks of disasters and handling pandemic health emergencies-influenza (fowl/swine flu), cholera, anthrax etc.

GDM 813.2: Communication and Disaster Information Management (3 units)

Lectures will focus on relevant communication and information theories, major modes of communication, information management before, during and after disaster occurrence. Role of mass media in disasters information dissemination and management.

GDM814.2: Wetlands/Riverine Disaster Management (3 Units)

Provide detailed knowledge on the effects of riverine disaster such as floods, riverbank erosion, riverbank protection and reclamation of wetlands. Case studies and best practices. Will be examined.

GDM815.3: Life Saving Skill Education for Disaster Mitigation (3 units)

This is a disaster preparedness course geared towards training of emergency preparedness resources, such as search and rescue personnel. Covers search and rescue methods, fire safety methods, psychological support skills, first aid skills etc.

GDM816.3: Legal Aspects of Disaster Management (3 Units)

This course provide basic for the formulation of environmental laws and policies, the legal aspects of hazards risk management, the legal and institutional structures, and bylaws relevant to disaster risk reduction. It will also cover issues relating to the formulation of building codes, ordinances and other regulatory requirements for building in disaster prone area. It will cover national, regional and international laws and conventions.

GDM817.3: Dry lands Disaster Management (2 Units) (Elective) (Seminar)

Provides knowledge on the effects and management aspects of drought, desertification, wind, pest information. Case studies on best practices will be examined.

GDM818.3: Urban Disaster Management (2 units) (Elective) (Seminar)

The course covers the different aspects of urban disasters and their management. They include storming rainfall, flood, fire, health, terrorism, suicide bombing, etc.

GDM819.3: Field Study (2units)

To provide opportunities to visit disaster risk areas, disaster management projects and agencies so as to appreciate the challenges and constrains to disaster management. This is a supervised week-long fieldwork when students are expected to conduct hazard, risk and vulnerability assessment of impacted sites and evaluate existing hazard management policies and strategies appreciate authorities. These activities are compiled and submitted as project by students.

GDM820.3: Master's Thesis (6 Units)

The thesis shall be original work on an approved topic on the areas of disaster risk management. The thesis is expected to contribute to knowledge and in accordance to the regulations of the graduate school as approved by senate.