

**UNIVERSITY OF NIGERIA, NSUKKA
SCHOOL OF POSTGRADUATE STUDIES**

PGD, M.Sc AND Ph.D

**PROGRAMMES FOR
DEPARTMENT OF HEALTH ADMINISTRATION AND MANAGEMENT**

2017

UNIVERSITY OF NIGERIA, NSUKKA

**PGD, M.Sc AND Ph.D PROGRAMMES OF THE DEPARTMENT OF HEALTH
ADMINISTRATION AND MANAGEMENT**

1.1 PHILOSOPHY

The overall need and philosophy of the post-graduate (PG) programme is to respond to the existing capacity gap in having adequately trained as well as academically equipped health management professionals with the requisite knowledge to man management positions in the ministries of health, health organizations and services in Nigeria. The PG programme provides the essential skills in health economics, health management and health policy that are required to improve the health system and ensure that the country attains the Sustainable Development Goals (SDGs), institutionalize an efficient and equitable health system and ultimately improve the health status of the people.

Hence, the epi-centre of philosophy of the PG programme is hinged on the need to produce policy makers and managers in the health sector as well as academics roundly grounded in an integrated manner in the inter-related fields of health economics, management and policy. The inter-related nature of the disciplines of health economics, management and policy implies that they could be offered as an integrated package to the students in the MSc for a holistic acquisition and retention of knowledge required to improve the performance of the health system. However, in the PhD, there will be specialisation in one of the disciplines.

1.2 POSTGRADUATE DIPLOMA (PGD) PROGRAMMES

1.2.1 AIM

To provide basic and relevant training for effective leadership and analytic problem solving capacity for the graduates, so that they improve the effectiveness, efficiency and equity of the health system.

1.2.2 SPECIFIC OBJECTIVES

The entire programme is aimed to:

1. provide training in health economics, health policy and health management techniques required of managers and policy makers in the health sector.
2. provide specialized training and techniques required for effective planning and analysis of contemporary health economic issues.
3. broaden the intellectual base for optimal resource allocation in the ever-evolving health sector in a developing country.
4. provide students with frameworks that will enable them understand and analyse health systems and policies.
5. improve the strategic management know-how and training for health care executives to enable efficient and effective health delivery system.

6. appreciate the underlying differences between types of organizational structures for health systems and key issues for achieving the goals of health systems for each type.

7. develop health experts capable of engaging in health systems research and analysis and ultimately improving the performance of health systems.

1.2.3 SCOPE

The programme will cover the basic aspects of the disciplines of health economics, health policy, health management and health administration. Also, it will cover introductory epidemiology including the control of common communicable and non-communicable diseases, organization of health systems, hospitals and health sector reform issues.

1.2.4 EMPLOYMENT OPPORTUNITIES

There are excellent employment opportunities in various arms of the health sector. The graduates could be employed as outcomes analysts in pharmaceutical industries; health economists in Ministries of Health and Development agencies; health service administrators and managers in hospitals and other health care organizations; in academia if they already have advanced post-graduate training in other relevant fields; programme managers by bilateral and multilateral organizations e.g. the World Health Organization etc.

1.2.5 ADMISSION REQUIREMENTS

For a candidate to qualify for admission into the postgraduate diploma, s/he must possess the following qualifications:

1. A University Degree in Medicine, Nursing, and Pharmacy or in a related field from University of Nigeria or any other recognized University in the area.
2. Candidates with at least third class degrees in Economics, Law and in any of the Social Sciences or in any of the Management Sciences.
3. A holder of a minimum of upper credit in the Higher National Diploma from a recognized institution provided the university matriculation requirements are satisfied.

1.2.6 MODE OF STUDY

By course work to be examined in written papers together with research work to be presented in a project report where course work predominates over research and constitutes not less than $\frac{3}{4}$ of the total units.

A university mandatory regulation of 75% attendance to all lectures is required to sit for any course examinations.

1.2.7 DURATION OF PROGRAMME

The programme will run for a minimum of twelve [12] calendar months and maximum of twenty-four [24] calendar months. Full-time Diploma: Minimum of two (2) semesters and a maximum of four (4) semesters.

1.2.8 NUMBERING OF STRESS AREAS

General economics	0
Health Management	1
Health Economics	2
Health Policy	3
Research Methods	4
Epidemiology	5
Biostatistics	6
Demography	7
Project	9

1.2.9 PGD COURSES

FIRST SEMESTER		
COMPULSORY COURSES		
Course code	Title	Unit
HEM 501	Microeconomics and Macroeconomics	3
HEM 513	Introduction to Health Facility Planning	2
HEM 515	Management of Health Services and Organizations	3
HEM 535	Introduction to Health Systems and Policies	3
HEM 553	Basic Epidemiology and Demography	2
	Sub-total (First Semester)	13

SECOND SEMESTER		
COMPULSORY COURSES		
Course code	Title	Unit
HEM 514	Basic Health Planning and Management	3
HEM 522	Introductory Health Economics	2
HEM 546	Research Methods and Biostatistics	2
HEM 578	Project work	4
ELECTIVE COURSES (choose only one course below)		
HEM 516	Health Management Information Systems	2
HEM 526	Healthcare Financing and Budgeting	2
	Sub-total (Second Semester)	13

	Total	26
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1.2.10 DESCRIPTION OF PGD COURSES

HEM 501: Micro and Macroeconomics (3 units)

Economics: What it is all about: scarcity, choice and decision making, basic concepts and principles in economics, opportunity cost. An intensive study of the theory of demand; law of demand and the market demand curve, the consumer behavior, utility function, demand function; indifference curve, the revealed preference; and new developments in the theory of demand. The theory of supply, law of supply and market supply curve, market equilibrium, price and quantity, price ceilings, floors and controls. Elasticity: price elasticity of demand income elasticity of demand, cross elasticity of demand and price elasticity of supply. Market structures: perfect competition, monopoly, monopolistic competition and oligopoly. Consumption function hypothesis: the absolute income, relative income, permanent income, wealth hypothesis. Investment function: the behaviour of the firm; the marginal efficiency of capital the marginal efficiency of investment, the accelerator. What is money and functions of money? Monetary and fiscal policies: Inflation: inflationary distortions in saving and investment, hyperinflation, deflation, unemployment, forms of unemployment. Gross domestic product and Gross national product, nominal GDP and real GDP.

HEM 513: Introduction to Health Facility Planning (2 units)

Health Service Organizations: Health Service in Nigeria and in other countries. Project Planning Team: The role and organization of the Project Planning team. Operational Policies and Pattern of Care: Operational Policies at Various Levels. Design Implications at Various Levels; Whole Hospital Planning Strategies: Spaces: Environment: Energy: Organization and Handling of Data for Briefing.

Health Building Attributes: Efficiency and Cost. Effectiveness, Flexibility Expandability; Therapeutic Environment; Cleanliness and Sanitation; Accessibility; Controlled Circulation; Aesthetics; Security/Safety and Sustainability. The Design and Building Process: Providing healthcare Buildings: Standards and Systems; Commissioning and Evaluation; Operation and Maintenance of Complex Buildings.

HEM 514: Basic Healthcare Planning and Management (3 units)

A review of administrative and management process. Review of functions and principles of Management. Principles and benefits of planning. Planning and organizing health services. Implementation and evaluation of health activities programmes. Health Programme Planning, Implementations of Monitoring and Evaluation. Health Needs Assessment/Community Diagnosis, Introduction to some analytic and non-analytic health planning techniques. The nature of management and understanding the roles of managers. Organizational development and change. Management of some health establishments in Nigeria—case studies. Community diagnosis, Programme implementation and Evaluation; Introduction to some analytic health planning techniques. Principles of monitoring and evaluation. Organizational

development and change. The manager and his work authority, relationship, leadership, power and accountability. Management of some health establishments in Nigeria-case studies.

HEM 515: Management of Healthcare Services and Organizations (3 units)

This course is designed to cover different aspects of management which includes human resources management, financial management and materials management. Principles and functions of management, evolution of Management theory and some theories of management, planning function and management decision making, setting of organizational objectives and goals. Organization function and formal and informal organizational structure and design, line and staff function and Role of authority, responsibility, delegation and style of leadership, accountability, Vertical and Horizontal coordination. Managerial skills and competencies – communication, Decision making etc. The nature of management and understanding the roles of managers. The different aspects of management which include human resources management, financial and materials management. Team building and group effectiveness. Introduction to quality management in Healthcare.

HEM 516: Health Management Information Systems (2 units)

Overview of Health Management Information Systems. Analysis, design and installation of Management information systems in health care organizations. The National Health Information System at the local, State and Federal levels. Computer applications for Management analysis of various health care programmes. Data storage. Retrieval and analysis.

HEM 522: Introductory Health Economics (2 units)

Basic Concepts and Principles of Health Economics with particular reference to choice and decision making in health care organizations. The special nature of health and health care. The principles of demand, supply and markets in the health economy. Market failures. General review of methods of economic evaluation and methodologies of cost-effectiveness analysis (CEA), cost-benefit analysis (CBA), cost-utility analysis (CUA) and cost-minimization analysis (CMA). Use of economic analysis for decision making and resource allocation. Economic analysis of alternative methods of delivering and financing health care. Equity analysis.

HEM 526: Health Care Financing and Budgeting (2 units)

Evolution of the budget process, theory and practice of budgeting. Identification of different types, roles and demands of the budget. Cardinal function of the budgets as an instrument of national, socio-economic policy formulation and implementation. Sources of revenue and purposes of governmental expenditures. Budget cycles, Budget preparation, Approval and execution, politics of resource allocation with emphasis on revenue sharing, programme budgeting. Comparison and evaluation of alternative Health care financing schemes in developed and developing countries and in the free enterprises,

command and centrally planned economies. The Medium-term sector strategy (MTSS) and medium-term expenditure framework (MTEF) for health resource allocation and financing.

HEM 535: Introduction to Health Systems and Policies

3 units

Introduction to Health policy, /Health Policy framework. Functions and goals of Health Systems. Evaluation of health services in Nigeria. Nigeria Healthcare Delivery Systems [new] with Policy implication. Introduction to International Healthcare Systems; Comparative Analysis [new]; Stewardship and Governance in Healthcare [Addition]; Assessing Health System Performance; Health Systems Reforms/Methods for evaluating HSR; Universal Coverage as a key health System goal [new]; Health Systems regulation [new]; Role of Private/Voluntary Sector in health systems [new]; Health Policy Analysis: Introduction; Analysis and choices among contending health policy initiatives; Comparative Assessment of Political, Sociological and Economic analysis of Health policy issues. Health Policy Planning, Formulation, Implementation and Evaluation. Health Systems Strengthening: Policy developed to strengthen the health systems. Roles and functions of the three tiers of government with policy implications.

HEM 546: Research Methods and Biostatistics (2 units)

The essence of this course work is to orient students to different research and designs and to equip the participants with appropriate skills required for writing their research projects. Aspects to be covered during the course will include types of research investigation, purpose of research, the research process – selection of problem, objectives, literature review, variables, assumptions, hypothesis, research design, selection of research method research ethics, issues in writing up research [integrity and plagiarism]. Basic statistical principles, collection of data, summarization and presentation of data, basic principles of data analysis.

HEM 553: Basic Epidemiology and Demography(2 units)

Definition and description of common epidemiological terms and principles. Measuring disease and illnesses. Principles of various epidemiological study designs and their applications. The distribution and determinants of common communicable and non-communicable causes of diseases and illnesses in Nigeria. This will involve the application of epidemiological principles to the control of communicable and non-communicable diseases as well as health related events. Basic concepts in the principles of transmission and control of communicable and non-communicable diseases. Disease burden and the social determinants of Health Epidemiological transition. Meaning and Nature of demography. Source and types of demographical data, population structure and dynamics, presentation of demographic data and rates. Basic measures of Fertility; rates of natural increase, population growth and estimates, morbidity and mortality rates.

HEM 578 Project Work (4 units)

Every student is expected to write a project of acceptable standard on a topic chosen from the field of Health Economics, Health Management or Health Policy. Each student, for the purpose of this aspect of the course, is assigned a supervisor from the academic staff of the department.

Master of Science (M.Sc.) Programme

Health Economics, Management and Policy

2.1.1 OBJECTIVES OF THE PROGRAMME:

The MSc programmes in Health Economics, Management and Policy is designed to provide professional and relevant training for effective management of the health sector as well as capacity building in the educational sector for training and research. The set-out objectives of the programme are to:

1. Provide advanced training in health economics, health policy and health management techniques required for managers and policy makers in the health sector as well as to the academia;
2. Provide specialized training and techniques required for effective planning and analysis of contemporary health sector issues; to broaden the intellectual base for optimal resource allocation in the ever-evolving health sector in a developing country;
3. Provide students with frameworks which will enable them to understand and analyse health systems and policies; to improve the strategic management know-how and training for health care managers to enable the institution of equitable, efficient and effective health system;
4. Develop health experts capable of engaging in health systems and research and analysis and ultimately improving the performance of health systems; and
5. Develop a critical mass of academics that will propagate capacity building and research in health economics, management and policies.

2.1.2 SCOPE

The programme will cover the advanced aspects of the disciplines of health economics, health policy, health management and health administration. The programme will also cover epidemiology including the control of common communicable and non-communicable diseases, and advanced principles of organization of health systems including hospitals and health sector reform issues.

2.1.3 ADMISSION REQUIREMENTS

To be admitted into the MSc degree programme, candidate should be holders: of a first degree in health administration and management, health economics, management and policy from a recognized university or a degree in a related field with a minimum GPA of 2.5 (second class lower) on a 5 point scale; degree in Medicine, Nursing, Pharmacy or other allied healthcare disciplines (with relevant experience of 3 years or more in Health Planning, Economics, Management or Policy); a postgraduate diploma with credit in Health Economics, Management, Policy; or in any other related field; and a first degree in Medicine, Pharmacy and other bio-medical sciences from University of Nigeria; and other graduates with at least 3 years cognate managerial experience.

2.1.4 MODE OF STUDY

The MSC programme will be by course work to be examined in written papers together with research work to be presented in a Dissertation. The students will face an oral examination/defence before an external examiner. In order to qualify for the M.Sc. degree, candidates are required to register maximum of 28 units of courses. **A University mandatory regulation of 75% attendance to all lectures is required to sit for any Course examination and Continuous Assessment.**

2.1.5 DURATION

The duration of the MSc programme shall be a minimum of eighteen [18] calendar months and a maximum of thirty-six [36] calendar months. Full-time will be for a minimum of eighteen [18] calendar months and part-time will be for a minimum of twenty [24] calendar months. Students unable to complete their work within the specified period shall be discontinued from the programme.

2.1.6 EMPLOYMENT OPPORTUNITIES

There are excellent employment opportunities in various arms of research, health and educational sectors. The graduates could be employed as: Outcomes analysts in pharmaceutical industry; Health economists in Ministries of Health and Development agencies; Health service administrators and managers in hospitals and other health care organizations; Lecturers and researchers in the Universities; Research fellows in research institutes; Programme managers by bilateral and multilateral organizations such as the World Health Organization; etc.

2.1.7 AREAS OF SPECIALISATION

- Health Policy Analysis
- Health Systems Research
- Health Economics
- Health Management

2.1.8 STRESS AREAS

Health Management	0
Health Economics	1
Health Policy	2
Health Law	3
Biostatistics	4
Epidemiology	5
Research Methods	6
Project	9

2.1.9 M.Sc COURSES

FIRST SEMESTER		
COMPULSORY COURSES		
Course code	Title	Unit
PGC 601	Research Methodology & Application of ICT in Research	3
HEM 601	Advanced Health Planning and Management	3
HEM 613	Advanced Health Economics	3
HEM 625	Health Systems and Policies	3
HEM 637	Legal and Ethical Aspects of Health Care	2
	Elective Course	2
	Sub-total (First Semester)	14

SECOND SEMESTER		
COMPULSORY COURSES		
Course code	Title	Unit
HEM 612	Health Financing	2
HEM 604	Health Facility Planning	2
HEM 616	Advanced Economic Evaluation	2
HEM 648	Biostatistics	2
HEM 674	Project work	6
ELECTIVE COURSES (choose only one course below)		
HEM 651	Advanced Epidemiology	2
HEM 627	Health Sector Reform	2

	Sub-total (Second Semester)	16
	Total	30

2.1.10 COURSE DESCRIPTION

PGC 601: Research Methodology and Application of ICT in Research 3 units

In-depth research work aimed at acquiring full knowledge and presentations in scholarly writing of the concepts, issues, trends in the definition and development of the study area from African and Western perspectives. Major steps in research: Selection of problem, Literature review, Design, Data collection, analysis and interpretation, Conclusions. Study of various research designs, Historical, case studies, Surveys, Descriptive, Cross-sectional, Experimental, etc. analysis, surveys and synthesis of conceptual and philosophical foundations of different disciplines. Identification of research problems and development of research questions and/or hypotheses. Detailed treatment of methods of collecting relevant research data and the format for presenting research results (from designing the table of contents to referencing, bibliography and appendix). Data analysis and result presentation in different disciplines using appropriate analytical tools. Methods of project/dissertation writing. Application of appropriate advanced ICT tools relevant in every discipline for data gathering, analysis and result presentation. Essentials of Spreadsheets, Internet technology and internet search engines. All registered Masters Degree students must attend a solution-based interactive workshop to be organized by the School of Postgraduate Studies for a practical demonstration and application of the knowledge acquired from the course, conducted by selected experts.

HEM 601: ADVANCED HEALTH PLANNING AND MANAGEMENT 3 units

The course will cover definition and concept of Management. Examination of various management theories and principles. Strategic management, Organizational behaviour, Change and change management; Introduction to some analytic and non-analytic health planning techniques viz. Planning Programme Budgeting System (PPBS). Quantitative techniques, Organization and Methods (Q & M), Management by objectives (MBO), Project Management (PM), Project Evaluation and Review Techniques (PERT), Decision making techniques, Managing Services and Queuing theory, Inventory Management problems, Dynamic programming etc. and their relevance to health care delivery; Principles of monitoring and evaluation; Health needs assessment, Community diagnosis, programme implementation and evaluation. Types of organizational functions, setting of organizational objectives and goals, effective organization-authority, power and delegation, formal and informal organizational structure and design, line and staff function and authority. Human Resources Management, Leadership style and

theories, team building, Appraisal/Performance Review. Health Quality Management and Organization Performance Management: Donabedian view, Maxwell 6-dimensions of quality, Total Quality Management, Balanced Score Card. Accounting systems and procedures, accounting documentation and interpretation of financial accounting statements. Nature, compilation, uses and limitations of accounting and financial statements; Accounting data for planning and control. An overview of the organization of health services in different parts of the world. The philosophy of health services and National health services arrangement and responsibilities. Management responsibility in health services delivery. Advanced human resources, financial, and materials management systems.; Analysis, design and the installation of Management information systems in health care organizations. The National Health Information System at the local, State and Federal levels. Computer applications for Management analysis of various health care programmes. Data storage, retrieval and analysis.

HEM 604: ADVANCED HEALTH FACILITY PLANNING **2 units**

The nature of health care planning: Principles of Healthcare Planning Procedures [international models e.g. Nigeria, U.S.A., UK]; History and Changes in Healthcare. Allocation of Resources at the Strategic levels; Approaches to Planning Complex Systems. Operational policies/design implications: Patterns of Care; Operational Policies at various levels. Whole Hospital Planning Strategies; Space, Environment, Energy, Costs, Organizations and Handling of Data. The Design Brief. Investigation for briefing: A Comparison of Various briefing approaches; and Investigating Method/Developed; an Introduction to Mathematical Techniques and Operations Research. The design and building process: Providing Healthcare Buildings. Standards and Systems; Commissioning and Evaluation; Operation and Maintenance of Complex Buildings. Field Work and Seminar

HEM 612: HEALTH FINANCING

1 unit

Health financing functions: resource generation and collection; pooling and purchasing. Different health financing mechanisms. Assessment of health financing mechanisms: equity, efficiency, affordability, accessibility and improvement in quality of services. Health insurance: different types; market failures in health insurance markets. National health financing policy. Health financing research. Concept of financial risk protection; Catastrophic health expenditures. Health Systems Financing: Creating Fiscal Space for Health. Universal health coverage: financial access, physical access and quality of services. Comparison and evaluation of alternative Health care financing schemes in developed and developing countries as well as in the free enterprises, command and centrally planned economies. Examination of the issue of adequacy or otherwise of health care resources as they are currently appropriated. The Medium-term sector strategy (MTSS) and medium-term expenditure framework (MTEF) for health resource allocation and financing.

HEM 613: ADVANCED HEALTH ECONOMICS**3 units**

Concept of health economics. Economic approach to understanding problems, Demand theories, Nature/characteristics of the good – health, Demand and supply of healthcare goods and services, Understanding healthcare markets, Market failures in health Supplier-induced demand, basic health financing, introduction to methods of economic evaluation, Resource allocation, Health sector reform, Equity and efficiency analysis, External and health sector Inter-sectoral collaboration and health care delivery. Elements of costing and costing systems, budgeting and budgetary control procedures. Public sector budgets and fiscal policies. Internal control in the public sector. Application of financial accounting tools to planning; compilation and reporting of financial activities. Pharmaco-economics. Economics of control of communicable and non-communicable diseases.

HEM 616: ADVANCED ECONOMIC EVALUATION**2 units**

Advanced methods of economic evaluation: Methodologies and applications of cost-effectiveness analysis (CEA), cost-benefit analysis (CBA), cost-utility analysis (CUA) and cost-minimization analysis (CMA). Use of economic analysis for decision making and resource allocation. Economic analysis of alternative methods of delivering and financing health care. Measuring costs; Financial and economic costs, variable and fixed costs, unit costs, marginal costs, incremental costs. Monetary measures of outcome using the contingent valuation method and the human capital approach. Measuring effectiveness and outcomes; disability-adjusted life years, quality adjusted life years, willingness to pay technique. Average, marginal and incremental cost-effectiveness analysis. Project appraisal techniques; cost benefit and sensitivity analysis.

HEM 625: HEALTH SYSTEMS AND POLICIES**3 units**

What is a health system? Definitions and boundaries. Concept of systems and basic systems theory; identification of the sectors (National Subsystems) that are relevant to health planning and delivery; identification of the health sector's subsystems. Functions and goals of health systems. Organisation of the health system and types of services (promotive, curative, rehabilitative and preventive). Policies that have been developed to strengthen/improve health systems. Frameworks to analyse health systems and their performance. Frameworks to analyse health policies and assess their implementation. The role of federal, state and local governments in health services delivery; their power under the constitution and their influence on health care. The emergence and focus on primary healthcare (PHC). Exploration of Health patterns in industrialization and industrialized countries and the effect of the free market system. The health policy framework. Policy implementation. Methods for policy analysis. Medical technologies and devices. Fund collection and pooling. Provision of health services. Purchasing health care. Stewardship. Assessing health system performance. Definition of Policy. Legislative process in policy formulation. Different types of policy. Evolution of health services in Nigeria with policy responses and

implications. Roles and functions of the three tiers of government with policy implications. The National health policy and response to diseases and treatment. Primary, Secondary and tertiary health care in the current health policy and Strategy. Intersectoral collaboration.

HEM 627: HEALTH SECTOR REFORM

2 units

Concept of Health sector reform. Ideological movements that have led to HSR and developing country health systems such as structural adjustment programmes and globalization. Historical perspectives of Health Sector Reform in Nigeria and around the world. Decentralization. Public-private mix. Contracting out of services. Millennium Development Goals (MDGs). Health Sector Reform Programmes in Nigeria: Federal and state levels. External influences on national HSR. Health Systems Research.

HEM 637: LEGAL AND ETHICAL ASPECTS OF HEALTH CARE

2 units

Exploration of Nigeria legal system and the legislative process. Legal proceedings and the justice system. The Nigerian Constitution. Rule of law and the theory of separation of powers. Medical Malpractice; Medical Negligence, Contractual liability, the law of tort, vicarious liability, Hospital liability for the Acts of employees. The ethics of death and dying, organ donation, technology and vegetative state, and other ethical problems in health care delivery. Selected case studies of contemporary ethical health/medical issues like technological sustenance of life for patients on comatose.

HEM 648: BIOSTATISTICS 2 units

Basics: what is statistics, populations and samples, defining the data, data analysis and presentation of results. Organizing and displaying data. Frequencies, frequency distributions and histograms. Univariate descriptive statistics: means, medians, mode, standard deviations and standard errors. Normal distribution. Significance tests for a single mean. Comparison of two means and several means. Key principles of statistical inference. Parametric and non-parametric tests. Differences among group means. Correlation, Simple and multiple regression. Factor analysis. Measures of mortality and morbidity. Use of computers. Diagnostic tests. Statistical software packages.

HEM 651: ADVANCED EPIDEMIOLOGY

2 units

Definition and description of common epidemiological terms and principles. Measuring diseases and illnesses. Principles of various epidemiological study designs and their applications. The distribution and distribution of common communicable and non-communicable causes of diseases and illnesses in Nigeria. This will involve the application of epidemiological principles to the control of communicable and non-communicable diseases as well as health related events. Basic concepts in the principles of transmission and control of communicable and non-communicable disease. Disease Burden and the social determinants of Health Epidemiologic transition.

Meaning and Nature of demography: Sources and types of demographical data, population structure and dynamics; presentation of demographic data and rates. Basic measures of fertility: rates of natural increase, population growth and estimates, migration and mortality rates. Application of designing and analysis of epidemiological studies. The application of epidemiological principles to the control of communicable and non-communicable diseases as well as health related event. Basic concept in the principles of transmission and control of communicable disease. Surveillance of communicable disease. Community diagnosis.

HEM 674: PROJECT WORK

6 units

Every Student is expected to undertake a research and produce a dissertation, which must meet an acceptable standard on a topic chosen from the field of Health Economics, Management or Policy. Each student shall be assigned a Supervisor from the academic staff of the Department or any other academic staff of the University. The project work shall be based on an empirical study of a real life problem or situation as agreed by the Department. This project report also shall be examined by an external examiner.

3.1.1 Doctor of Philosophy (Ph.D.) Programme

3.1.2 AIM

The PhD programme in Health Economics, Management and Policy is designed to provide advanced training in health economics, health management or health policy for increasing research and technical expertise including analytic problem solving capacity to the graduates particularly: providing specialized training and techniques needed for effective conduct of research in the subject areas; broadening the intellectual base and global understanding of health system issues; and enable proper scholarly productivity and contribution to knowledge in the specified areas.

3.1.3 SPECIFIC OBJECTIVES:

1. To provide advanced training in health economics, health policy and health management techniques to academics and various health system managers and policy makers.
2. To provide specialized training and techniques required for effective planning and analysis of contemporary health sector issues.
3. To provide students with frameworks which will enable them to understand and analyse health systems and policies.

4. To develop experts capable of engaging in health systems and research and analysis and ultimately improving the performance of health systems.
5. To develop a critical mass of academics that will propagate capacity building and research in health economics, management and policies.

3.1.4 SCOPE

The programme will cover the advanced aspects of the disciplines of health economics, health policy, health management and health administration. The programme will also cover basic epidemiology including the control of common communicable and non-communicable diseases, advanced principles of organization of health systems including hospitals and health sector reform issues. A minimum workload of 24 credit units of which 12 credit units are for the thesis, 6 credit units for the Masters programme or coursework and 6 credit units for seminars.

3.1.5 ADMISSION REQUIREMENTS

To be admitted into the PhD programmes in Health Economics, Health Management/Administration or Health Policy a candidate should: hold M.Sc. degree (which includes coursework and research) in Health Economics, Health Management/Administration, or Health Policy or in a related area from University of Nigeria or any other recognized university provided the university matriculation is satisfied. In addition, a relevant working experience on Health Management and Policy matters will be an advantage. Candidates with an M.Sc Degree in Health Economics, Management and Policy with a CGPA of at least 3.5 on a 5.0 point scale is required. Also required is a brief statement of intended area of research.

3.1.6 MODE OF STUDY

It will be coursework and research-based with individual students working with assigned supervisors. It shall have coursework with written examinations and a research thesis that involves oral defence and requires the participation of an external examiner.

3.1.7 DURATION

Full-time: A minimum of four (4) semesters and a maximum of ten (10) semesters. Part-time: A minimum of six (6) semesters and a maximum of fourteen (14) semesters.

3.1.8 AREAS OF SPECIALISATION

- Health Economics
- Health Planning and Management
- Health Policy

3.1.9 EMPLOYMENT OPPORTUNITIES

There are excellent employment opportunities in various arms of research, health and educational sectors. The graduates could be employed as: Outcomes analysts in pharmaceutical industry; Health economists in Ministries of Health and Development agencies; Health service Administrators and Managers in hospitals and other health care organizations; Lecturers and Researchers in the Universities; Research fellows in Research institutes; Programme Managers by bilateral and multilateral organizations such as the World Health Organization; etc.

3.1.10 AWARD OF DRGREE

The degree of PhD in Health Administration and Management is awarded to only candidates who have passed all prescribed Courses, Seminars and other conditions prescribed by the Postgraduate School. There is no GPA passing grade for the award of Doctoral Degree. The Doctoral Thesis is on Pass or Fail basis. However, any Thesis score of less than 60% is deemed to have failed.

3.1.11PROGRAMME STRUCTURE

COURSE CODE	TITLE	UNITS
HEM 790	Doctoral Thesis	12
CORE COURSES		
HEM 791	Doctoral Seminar 1	2
HEM 792	Doctoral Seminar II	2
HEM 793	Doctoral Seminar III	2
COURSE WORK (see M.Sc HEMP programme for detail)		
PGC 701	Synopsis and Grant writing	3
HEM 601	Advanced Health Planning and Management	3
HEM 613	Advanced Health Economics	3
HEM 625	Health Systems and Policies	3
	TOTAL	30

3.1.11COURSE DESCRIPTION

3.1.12PGC 701 SYNOPSIS AND GRANT WRITING

3 units

Identification of types and nature of grants and grant writing: mining of grants application calls on the internet. Determining appropriate strategy for each grant application. Study of various grant application

structures and contents and writing of concept notes, details project description, budgeting and budget defense. Study of sample grant writings in various forms and writing of mock research and other grants. Identification of University of Nigeria synopsis structure and requirements (Introduction, Methodology and Results). Determining the content of each sub-unit of the synopsis. Steps in writing the synopsis from the Dissertation/Thesis document. Structural and Language issues. Common errors in synopsis writing and strategies for avoiding them. The roles of the students and supervisors in the production of a synopsis. Writing of mock synopsis. All registered Ph.D students must attend a solution-based interactive workshop to be organized by the School of Postgraduate Studies for a practical demonstration and application of the knowledge acquired from the course, conducted by selected experts.

HEM 790: DOCTORAL THESIS 12 units

This is a report based on a comprehensive research in area of Health Economics, Health Policy or Health Management.

HEM791: DOCTORAL SEMINAR I: 2units

This is a detailed written concept paper presentation of the candidate's PhD topic proposal which includes introduction, the research problems, aims and objectives, preliminary literature review, conceptual framework and research methods. It will also include a presentation on issues, theories and current academic debate and status in the candidates proposed area of study

HEM 792: DOCTORAL SEMINAR II: 2units

A presentation by the student of the complete research proposal, including the data collection tools and proposed data analytic methods.

HEM793: DOCTORAL SEMINAR III: 2 units

A detailed written post field of the candidate's PhD work.

N/B ALL PhD CANIDATES ARE TO PUBLISH AT LEAST ONE PAPER FROM THEIR THESIS IN AN IMPACT FACTOR JOURNAL [THOMSON REUTERS] BEFORE FINAL DEFENCE.

DEPARTMENTAL REGULATIONS

Students are required to have attended at least 75% of lectures for each module to be eligible to sit the examination and continuous assessment for that module.

1. Students are required to have undertaken a continuous assessment test for each module (which carries 30% of the final marks) before sitting the examination.
2. Any course not passed at the first attempt will be carried over to the following session.

3. It is expected that the taught courses and examinations will take place in the first 9 months of the calendar year (PGD and MSc.) and the last 3 - 9 months will be dedicated to the project work at the end of which students are expected to submit their projects.
4. Students are expected to possess a laptop, a functioning internet access and a scientific calculator as basic minimum at the commencement of the course.

LIST OF APPROVED SUPERVISORS

1. Professor Obinna Onwujekwe: MBBS, MSc, Cert HMG, PhD, DLSHTM
2. Professor (Mrs.) Ijeoma Okoronkwo: BSc, MBA, MSc, DLSHTM, PhD
3. Professor Benjamin SC Uzochukwu, MBChB, FWACP, MPH, Cert HPA Joint Appointment
4. Assoc. Prof. Douglas E. Nwagbo, BSc, MSc, DLSHTM. Joint Appointment
5. Mr Chijioke I. Okoli B.Sc, M.Sc. MPH (Health Economics)
6. Dr Enyi Etiaba MBBS, cert. JCPTGP, DLSHTM, MSc. (PHDC)