

INSTITUTE OF PUBLIC HEALTH University of Nigeria



Vision

To be a reference point for excellence in public health and policy learning, research and practice in the developing world, and a leading contributor to the improvement of population health in Nigeria and globally

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BROCHURE FOR ACADEMIC PROGRAMMES



RT. HON DR. NNAMDI AZIKIWE
(1904 - 1996)
FOUNDER, UNIVERSITY OF NIGERIA



PROF. B.C. OZUMBA
VICE CHANCELLOR UNIVERSITY OF NIGERIA, NSUKKA.

UNN'S VISION AND MISSION STATEMENT



VISION STATEMENT

To create a functional, globally competitive & research-focused University which is not just an Ivory Tower, but responsive to the needs of the society, while delivering World-class education and Knowledge.

MISSION STATEMENT

To place the University of Nigeria in the forefront of Research and development, Innovation, Knowledge Transfer and Human Resource Development in the global academic terrain, while promoting the core values which will ensure the restoration of the dignity of man.

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INTRODUCTION

The University of Nigeria is one of the foremost universities in Nigeria. In line with its track record of actively establishing relevant institutional platforms that are in the forefront of research and development, knowledge transfer, innovation and human resource development, the University of Nigeria established a department of Community Medicine in 1970. This department aimed to address critical needs in the developing area of public health, by training medical students and postgraduate students of public health. Till date, the postgraduate Master of Public Health (MPH) program which was established in 1998 has consistently admitted and trained students and has remained successful in its mission of providing the needed manpower for basic public health practice.

The establishment of the Institute of Public Health (IOPH) has been underscored by the recognition of the importance of upgrading the quality and scope of knowledge, practice and research in epidemiology, occupational and environmental health, health promotion, global health, research and action which are all required to meet the practical challenges in the provision and management of healthcare services in Nigeria and in developing countries of the world. There has also been a considerable gap in the capacity of policy makers and implementers within the health system, highlighting the need for availability of institutions that support learning and practice related to health systems, health policy and health services management.

Given the current and emerging issues in the field of public health and global development, the IOPH has been structured to help address the critical knowledge and human resource gaps that are required in public health related institutions. The training framework is aimed at explicitly combining the transfer of public health related knowledge, practical skills in appraisal and management of public health systems and interventions, and global best practices in public health research. To provide a globally competitive hub for public health learning, research and practice, the IOPH draws on the abundant academics and practitioners across the various faculties within the College of Medicine, the University of Nigeria, and other relevant external expertise.

THE INSTITUTE OF PUBLIC HEALTH – (IOPH)

PHILOSOPHY

In line with its mandate of providing quality training in Public Health, and in response to the pressing need that exists to expand the human resource capacity to meet the practical public health challenges in Nigeria and in other developing countries of the world, the Institute of Public Health (IoPH), College of Medicine, University of Nigeria, Enugu Campus has established a postgraduate degree programme in Public Health. The training and research provided by the IoPH is built on the philosophy of broadening and deepening the capacity of trainees, researchers and professionals for influencing decision making regarding policies and practices that advance public health using scientific knowledge, analysis and communication of evidence. Such individuals should be able to contribute positively to improving population health locally and globally.

OBJECTIVES

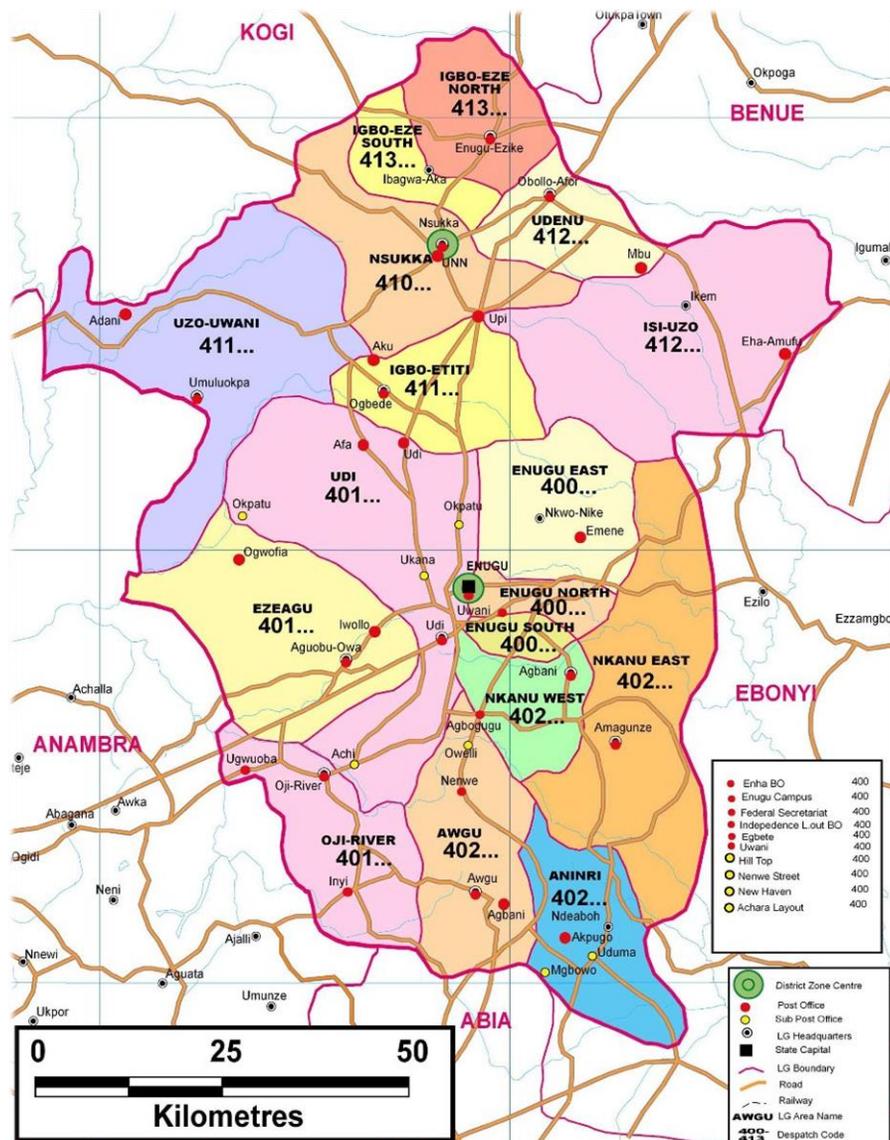
The objectives of the programmes are to:

1. Develop creative and independent investigators with in-depth knowledge of public health who can contribute effectively to improving disease prevention and health outcomes at individual, community and population levels
2. Develop creative and independent investigators who will be able to collaborate effectively with bench and applied scientists to improve disease prevention and treatment at both the individual and population levels in order to improve overall health outcomes of populations.
3. Develop competent, responsive and productive health systems and policy analysts and advocates that will contribute to the development, management and evaluation of international, national and local health policies, programmes and organizational practices in order to improve health systems
4. Provide students with a good understanding of the principal theories, methods and interventions used in health promotion and communication and interaction between the environment and health, and health risks in occupational and non-occupational environments
5. Produce graduates that can identify and analyze ethical, social and legal controversies consequent on biomedical practice and research and have skills to state a clear position on a moral issue.

LOCATION

The IOPH is located in Enugu, Enugu state, which serves as the historical capital city of southeastern Nigeria and is notable for coal mining (see further information about Enugu in the Appendix). The IOPH is currently temporarily located at the facilities of the College of Medicine of the Enugu Campus of University of Nigeria (popularly known as the Old UNTH Complex). Apart from providing accommodation for academic and non-academic staff, the building provides some learning and teaching space for medical students and postgraduate students. It is hoped that the IOPH will move to a permanent site in the near future.

BASIC FACTS ABOUT ENUGU



Enugu state is an inland state in South-East Nigeria created August 27, 1991 from the old Anambra State. It shares boundaries with Anambra state on the West, Abia State to the South, Kogi state to the North while Benue state and Ebonyi state are to the East. The state is made up of 17 local government councils occupying a land mass of 7,161 sq km with a total population of 3,267,837 (2006 census) and a population projection of 4,469,054 for 2016 (based on a 3.18% annual growth rate).

The residents are predominantly Igbo speaking mixed with non-Igbo speaking immigrants. There are several institutions of higher learning in the state including the University of Nigeria Nsukka, the Enugu State University of Science and Technology, the Institute of Management and Technology, Enugu; College of Education Enugu, College of Agriculture, Ikwo and a host of established and upcoming privately owned higher institutions namely Caritas University, Renaissance University and OSISATECH a polytechnic.

The business atmosphere of Enugu is a very busy one with sizeable number of residents engaged in white collar jobs while most others are either students or traders.

The State Ministry of Health is organized into 2 subunits:

1. Policy Development and Planning Directorate
2. Enugu State Health Management Board

The Policy Development and Planning Directorate is made up of 7 directorates: public health, nursing services, medical services, finance, pharmacy, administration, directorate of planning research and statistics. It is primarily concerned with overall strategic and operational policy development. The State Health Management Board is concerned with overall monitoring and evaluation of service delivery and coordination of the activities of the District Health Boards. The SHMB is chaired by a Hospital Administrator.

Altogether there are 851 health facilities in Enugu State, 513: 462 PHC, 47 secondary (cottage and district hospitals) 4 tertiary are public health facilities in the state. Three of the tertiary health facilities are owned by the Federal Government and one is state owned. The private sector is an important player in the health sector in Enugu State making up approximately 40% (338) versus the 60% that are public health facilities.

Priority Health Conditions; The State's Strategic Health Development Plan identified HIV/AIDS response (prevalence 5.8%; National Sentinel Survey 2008), Child mortality improvement (<5 Mortality Rate: 95/1000LB), maternal mortality improvement and malaria control as priority areas for intervention.

ORGANISATIONAL STRUCTURE AND HUMAN RESOURCES

1. Advisory Board
2. Academic and Research Board
3. Management Team
 - i. Director
 - ii. Associate Director
 - iii. Programme Coordinators of the focal areas of training to be provided by the Institute
 - a. Public Health (Epidemiology stream)
 - b. Public Health (Clinical Epidemiology stream)
 - c. Public Health (Health Systems, Policy and Management stream);
 - d. Public Health (Health promotion and communication stream);
 - e. Public health (Environmental and Occupational Health Stream);
 - f. Master of Public Health (by Distance Learning)
 - g. Master of Bioethics
 - iv. Research group coordinators
 - v. Accounting and Logistics manager
 - vi. Students' Administrators
 - vii. Communications Officer
4. Research and Training Faculty
 - i. Faculty members (who shall be drawn from the core academic staff of the University and shall be from relevant faculties in line with existing regulations of the University)
 - ii. External faculty (who shall be drawn from collaborating organisations and shall be required to pray roles assigned by the Director as consistent with the regulations of the University)

PARTNERSHIPS

To ensure that the objectives of the IOPH are effectively achieved, the institutes seeks to establish and sustain partnerships with a growing number of organizations including the National Primary Health Care Development Agency; Institute of Child Health, UNTH; Department of Public Health, State Ministries of Health; National Arbovirus institute, Enugu; State Primary Health Care Units and Board; Representatives; Non-governmental and development agencies; Civil Society Coalition; Women’s Organisations, Department of Public Health of State Ministries of Health in southeast Nigeria; Health Reform foundation of Nigeria (HERFON); Federal Ministry of Health; NAFDAC; NHIS; NIMR; Faculty of Public Health Ibadan; Institute of Public Health OAU, Ife; University of Western Cape, South Africa; KEMRI Wellcome Trust Kenya; London School of Hygiene and Tropical Medicine; Indian Institute of Technology Madras, School of Public Health, University of Ghana, School of Public Health, Makerere University Uganda.

SCOPE

1. *MSc Programme*

The epidemiology course includes epidemiologic concepts and methods, study designs, disease prevention and control, statistical approaches for analyzing health and disease states and outcomes, and design and implementation of health-related research.

The clinical epidemiology course focuses on training students on the use of best available evidence to improve clinical practice thereby improving health outcomes of individual patients and their communities.

The Health Systems Policy and Management course covers concepts such as how health care is financed, structured, provided and used; how health policies are prioritized, organised and executed; and how and why health systems do or do not produce positive health outcomes and broader social goals. It equips candidates with methodological skills in analysing health policies and systems.

The occupational and environmental health course is focused on the evaluation, treatment, and prevention of diseases related to environmental and occupational exposures, and a good understanding of the interaction between the environment and health, and provides a broad-based training in public health with a focus on protecting individuals, workers, households and communities.

The Health Promotion and Communication course examines individual attributes and behaviours, the social norms that influence these, the wider distribution of rights, responsibilities and resources within societies that are the ‘upstream’ influences on these factors, and their effect on health of households and communities. The programme covers the use of theory and methods for understanding the determinants of health and illness.

The Bioethic course is to provide candidates with the skills essential to serve as effective watchdogs of biomedical practice and research within and outside Nigeria. The programme provides advanced training for professionals, academics, and other interested individuals in health care, law, the humanities, and public policy who wish to become prepared for teaching, research, policy development, and clinical consultation work related to bioethics.

2. DrPH Programme:

The Doctor of Public Health (DrPH) is an advanced research-focused, professional degree for candidates that intend to undertake high-level research in their professional practice career in public health and healthcare generally and for current and future health systems' managers and leaders. This degree leads to a career in high-level administration, teaching, research or practice, where advanced analytical and conceptual capabilities are required. The DrPH program further develops in its candidates all competencies included in MPH programmes, with increased emphasis on research and evidence translation, high-level skills in problem-solving and the application of public health concepts.

3. PhD Programme:

The PhD programme is an advanced research degree for candidates that intend to undertake high-level research career in public health and healthcare systems generally. This degree leads to a career in specialist teaching, where advanced analytical and conceptual capabilities are required. The PhD program further develops in its candidates all competencies included in MSc programmes, with increased emphasis on theoretical and methodological concepts, in-depth literature reviews, research and evidence translation

ENTRY REQUIREMENTS

1. MSc Programmes

Applicants for the *Epidemiology stream* must hold a degree in Medicine, Dentistry or Veterinary medicine from a recognized university or have a minimum CGPA of 2.5 (second class lower) on a 5-point scale in the biological and health related sciences, and statistics.

Applicants for the *clinical epidemiology* must hold a degree in Medicine, Nursing or Pharmacy from a recognized university with a minimum CGPA of 2.5 (second class lower) on a 5-point scale where applicable.

Applicants for the *Health System Policy and Management stream* must hold any of the following basic entry requirements: postgraduate diploma with credit in health economics, management, policy or in a related field plus a first degree from a recognized University with a minimum CGPA of 2.5 (second class lower) or a degree in Medicine, Nursing, Pharmacy or a first degree from University of Nigeria or another recognized University in Business/Health Management/Administration, public administration with a minimum GPA of 2.5 (second class lower) on a 5-point scale.

Applicants for the *Occupational and Environmental* stream must have obtained a first degree from a recognized University with a minimum CGPA of 2.5 (second class lower) on a 5-point scale in Nursing, Pharmacy, and Medicine and Surgery [MBBS], or in the biological and health related sciences from the University of Nigeria or any other University approved by senate.

Applicants for the *Health Promotion and Communication* stream must have obtained a first degree from a recognized University with a minimum CGPA of 2.5 (second class lower) on a 5-point scale in Nursing, Social Sciences, Biological sciences, Health education, Medicine and Surgery [MBBS] and other courses allied to medicine from the University of Nigeria or any other University approved by senate.

Applicants for the *Bioethics* programme would have completed a first degree in any course of their choice from a recognized university with a minimum CGPA of 2.5 (second class lower) on a 5-point scale. And would have fulfilled the university of Nigeria minimum requirement for the pursuit of a postgraduate programme.

2. DrPH Programmes

Candidates who apply for the programme must meet the required basic academic criteria for postgraduate programmes in the university. A critical requirement is that the student would have completed the MPH programme with a second-class upper division as required by the University or possesses a professional Fellowship of the National Postgraduate Medical College of Nigeria, or West African Postgraduate Medical College in Public Health/Community Health as recognized by the Medical and Dental Council of Nigeria

3. *PhD Programmes*

Candidates who apply for the programme must meet the required basic academic criteria for postgraduate programmes in the university. The candidate would have obtained an appropriate MSc in a field relevant to the area of interest with the grades specified by the School of Postgraduate Studies of the University of Nigeria, Nsukka or possesses a professional Fellowship of the National Postgraduate Medical College of Nigeria, or West African Postgraduate Medical College as recognized by the Medical and Dental Council of Nigeria

MODE OF STUDY

For the MSc programmes, these shall be executed 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 75% of the total units.

For the doctoral programmes, these shall be by research and coursework where research predominates over the coursework. The programme requires a relevant doctoral research thesis, which will have to be presented with an accompanying specified number of publications targeted for peer-reviewed journals

EMPLOYMENT OPPORTUNITIES

The programmes are appropriate for individuals interested in careers in public health practice, medical research, and community medicine, epidemiological field studies, drug manufacturing enterprises, development agencies, government or other non-governmental organizations, development and analysis of public health policy and planning at the local, state, federal, and international level. Graduates can take up roles in local and international institutions involved in prevention, investigation and control of both communicable and non-communicable diseases, pharmaceutical companies where they translate their research into evidence and practice. They can also work as managers of health programmes in the Private and Public sectors of the economy, including industries, State and Federal Ministries of Health, The programme offers an excellent preparation for students who may wish to take on a PhD programme.

Practically all institutions involved in the training of health personnel require the services of grandaunts of Bioethics.

CURRENT STAFF PROFILES

Prof. UZOCHUKWU Benjamin S. Chudi (Director)



Benjamin Uzochukwu qualified as a medical doctor in 1983 and obtained his Diploma in Public Administration in 1996 and Master of Public Health degree in 2000 as well as Certificate in Health Policy Analysis. He is a Fellow of the West African College of Physicians and Consultant Community Medicine Physician at the University of Nigeria, Teaching Hospital Enugu. He is also a Professor of Public Health, Health Policy and Systems in the Department of Community Medicine and Health Administration & Management, College of Medicine, University of Nigeria, Enugu Campus where he teaches Health Management and Health Policy and systems. He is also the assistant coordinator of the Health Policy Research Group. He has been working in public health for over 20 years. He is a foundation member of the Association of Schools of Public in Africa (ASPHA)

and in the board of Health Systems Global. He is the 86th inaugural lecturer of the University of Nigeria Nsukka and the pioneer Director of the Institute of Public health of same university.

He has done extensive work focusing on epidemiology of vaccine preventable childhood diseases, Malaria, HIV/AIDS and Tuberculosis. He has been involved in the generation of knowledge on the effect of health sector reform on tropical diseases and reproductive health issues as well as health policy and health economics issues of malaria, HIV/AIDS and Tuberculosis in developing countries, focusing on the effect of Health sector reform processes on utilization of PHC services, impact of user fees on households and exemptions policies in Nigeria: community participation within the context of health sector reform; family planning issues, immunization, rational drug use and generation of new knowledge on how to strengthen health system policies and key interventions which preferentially benefit the poorest. Other areas include scaling-up of health intervention strategies including HIV/AIDS, Malaria, Tuberculosis, IMCI and immunization. He has expertise in Health policy and systems analysis and getting research into policy and practice as well as impact evaluation of health programmes. He has over 100 peer reviewed publications in both international and national journals.

He is the Chief examiner to the West African Postgraduate Medical College of Physicians faculty of Community Health. He is an external examiner to various Nigerian medical schools including the University of Port Harcourt, University of Benin, Nnamdi Azikiwe University Awka, Ebonyi State University Abakaliki and Imo State University. He is also an external examiner to the Health Economics Unit, University of Cape Town, South Africa.

He is a Knight of Good Shepherd (KGS) of the Anglican Communion of the Diocese of Enugu, Nigeria and married with five children.

Prof. Mrs. ONWASIGWE Chika Nwanma



Prof. (Mrs.) Chika Nwanma Onwasigwe holds an MBBS degree from the University of Nigeria Nsukka. She is a Fellow of the West African College of Physicians in Community Health (FWACP) and a Fellow of the National Postgraduate Medical College of Nigeria in Public Health (FMCPH). Her areas of interest are Epidemiology, Biostatistics and Medical Research.

Currently she is a Professor with the Department of Community Medicine, College of Medicine, University of Nigeria Enugu Campus with effect from 1st October 2004. She has acted as the Head of Department of Community Medicine and Coordinator of the Master of Public Health Training Programme of the University of Nigeria.

She has successfully supervised over 300 undergraduate medical students and postgraduate students at the Master's (over 50), Doctoral (3) and Fellowship (over 15) levels at the University of Nigeria Enugu Campus and other universities east of the Niger. She has acted as External Examiner to various universities in south-eastern Nigeria, and an Examiner at the West African College of Physicians and the National Postgraduate Medical College of Nigeria. She has attended many conferences both within and outside the country. She has written three mainline university textbooks in epidemiology, biostatistics and medical research. She has published more than 60 articles in peer-reviewed local and international journals.

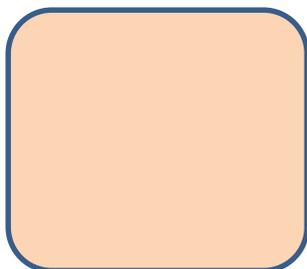
Prof. Onwasigwe is a member of many professional and academic bodies including the Academic Staff Union of Universities, Nigerian Medical Association, Medical Women's Association of Nigeria, International Epidemiological Association, Medical and Dental Consultants Association of Nigeria, Association of Public Health Physicians of Nigeria and others.

Prof ONWUJEKWE Obinna E



Professor Obinna Onwujekwe qualified as a medical doctor from University of Nigeria and later obtained an MSc in Health Economics. He studied briefly at the Swiss Tropical Institute Basel for the Certificate in District Health Management and received a PhD in Health Economics and Policy from the London School of Hygiene and Tropical Medicine, University of London. He is currently a Professor of Health Economics and Policy and Pharmaco-economics/pharmaco-epidemiology in the Departments of Health Administration & Management and Pharmacology and Therapeutics, College of Medicine, University of Nigeria. He has vast work and research experience in many parts of the world. He is one of the leading health economists health financing experts in Africa. He was a member of the National Healthcare Financing Policy Technical Group that produced the first Nigerian Healthcare Financing Policy; was the Lead facilitator of the Nigerian Presidential Summit on Universal Health Coverage; and is currently the Co-Chairman of the National Technical Working Group on Health Financing and Equity. He is also the Co-Chairman of the Scientific Committee of the African Health Economics and Policy Association. He is also a technical facilitator to the ongoing efforts to produce a new National Health Policy for Nigeria. He is a member of the UNAIDS Economics Reference Group, the president of the Nigerian Health Economics Association. He is currently the Chairman of the University of Nigeria Senate Research Committee and Chairman of the Committee on Enhancing the Global Visibility of the University of Nigeria. He has published more than 170 papers in many reputable international journals and is on the editorial board of five journals. He is the Editor of the African Journal of Health Economics.

Prof. AGHAJI Margaret N.



Professor Aghaji obtained her medical degree from the University of Nigeria in 1982 and completed her residency training in Community Medicine at the University of Nigeria Teaching Hospital, Enugu. She is a fellow of the West African College of Medicine. She has taught medical students both at undergraduate and postgraduate levels, and has conducted research in various aspects of community medicine, with publications in national and international journals. She is a former Head of Department of Community Medicine, College of

Medicine, University of Nigeria, Enugu Campus and a member of the Senate of the University of Nigeria Nsukka.

Prof. OKEKE Theodora



Professor Okeke obtained her medical degree from the University of Nigeria and completed her residency training in Community Medicine at the University of Nigeria Teaching Hospital, Enugu. She is a fellow of the National Postgraduate Medical College of Nigeria, with special interest in the area of Occupational Medicine.

She has taught medical students both at undergraduate and postgraduate levels, and has conducted research in various aspects of community medicine, with publications in national and international journals. She is a former Head of Department of Community Medicine, College of Medicine, University of Nigeria, Enugu Campus. She has acted as a Faculty Board member and Examiner to the National Postgraduate Medical College of Nigeria. She is also a member of the Society of Occupational Health Physicians of Nigeria.

PROF AGUWA Emmanuel Nwabueze

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Emmanuel N. Aguwa is a Professor with the University of Nigeria Nsukka and an Honorary Consultant with University of Nigeria Teaching Hospital. He became a medical doctor in 1989 and completed his internship in 1990 and National Youth Service in 1991. Since then he has obtained degrees in Public Administration (Postgraduate diploma, 1998); Public Health (MPH [2006], a Fellow of the West African College of Physicians [2004], and a Fellow of the National Postgraduate Medical College [2004]). He has successfully taught and supervised several undergraduate and post-graduate students. He has also served as external examiner to some other Universities and is currently an examiner in the West African and National Postgraduate Medical Colleges (WACP and NPMCN). He has worked in several hospitals both

private and public and has attended and presented research papers in several conferences and workshops both locally and internationally. He is also a trained WHO/TDR clinical monitor and has been involved in a clinical trial on comparing efficacy and adverse events of fixed dose versus loose dose drug combinations in tuberculosis treatment. Presently he has more than seventy publications to his credit and is a member of several university committees - some of which include University of Nigeria Teaching Hospital Ethics Committee and College of Medicine Directorate for Research and Publication. He is happily married with children.

Prof. Mrs. EHIEMERE Ijeoma O.



Ijeoma O. Ehiemere is a Professor of Nursing at the University of Nigeria, Enugu Campus. She is a Fellow of the West African College of Nursing and had previously taught in School of Nursing Bida, Niger state and School of Midwifery Ilorin, Kwara state. She became a Registered Nurse and Midwife in 1975 and 1978 respectively. She holds a B.Sc. (Nursing Education) from the University of Ibadan, M.Sc. (Community Health) from University of Ilorin and Ph.D in Head Education and promotion from the University of Nigeria, Nsukka. She has devoted many years of teaching and research in Nursing Sciences and Community Health Nursing at all levels. She pioneered and established the Community Health Unit of the Department of Nursing

Sciences at the University of Nigeria and has served as Head of Department and Associate Dean of the Faculty. Her research interests include Maternal and Child Health (MCH), Adolescent Reproductive Health (ARH) and Care for the elderly. She has over 30 publications in peer reviewed international and national journals

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NWAGBO Douglas F.



Associate professor in the department of Community Medicine, UNN. His specialty is Biostatistics and Medical Demography. He became a statistician on graduation from UNN in 1978, obtained a Master's degree in Medical Demography from the University of London in 1983 and a diploma from the London School of Hygiene and Tropical Medicine in 1992. He is a Fellow of the Institute of Corporate Administration (FCAI) and a Fellow of the Institute of Industrial Administration. He joined UNN in 1987 as Lecturer 1, was part time lecturer in the University of Jos (1997), the Anambra State University of Science and Technology (1988) and served his sabbatical leave at the Ebonyi State University in 2003 and continued there as an adjunct lecturer for six years. He contributed substantially to

the establishment of the MPH programme of the department and subsequently was appointed the pioneer coordinator of the programme. He has been involved in several research projects sponsored by organizations like the Carnegie Corporation of New York, World Bank, WHO, DGID/Paths2 etc. He has consulted with the UNDP, DFID/Paths2, Ebonyi State Action Group on AIDS (EBOSACA), WHO and German Leprosy Relief Organization. He has supervised several undergraduate and post graduate projects, is widely published in national and international journals. He has served in the public sector as Director Planning research and Statistics in the

Enugu State Ministry of Health, and was one-time secretary the Enugu State team on prevention of maternal mortality and later acting national chairman of the Nigerian team. His research interests are the application of tools of biostatistics and demography to reproductive health and social medicine.

Dr NDU Anne C.



Anne Chigedu Ndu nee Udekwu graduated from the University of Nigeria in 1988. She completed her internship in 1989 and NYSC in 1990. She has an MPH from the same University (2003). She is a Fellow of the West African College of Physicians (1999). She progressed from a lecturer in June 2000 to a senior lecturer in October 2004. She has served as the head of department of Community Medicine (2008 – 2010) and as the Chairman, Medical Advisory Committee/ Director Clinical Services and Training at the University of Nigeria Teaching Hospital, Ituku/Ozalla (from 2011-2015). She has worked with ANAMMCO Motor Manufacturing Company Staff Clinic, Community Hospital and Maternity, Iwollo Oghe and University of Nigeria Teaching Hospital. She has attended and presented several papers at numerous conferences and published articles in peer

reviewed journals. She is happily married with children. Research interests include; Public Health Nutrition Health Policy and Administration.

Dr. Mrs. EZEOKE Uchechukwu Enuma



Dr. Mrs. Ezeoke Uchechukwu Enuma obtained the MBBS degree in June 1981 from the University of Nigeria Nsukka. She obtained a Masters in Public Health, from the same University, in Feb, 2004 and Part II Final Fellowship of the West Africa Post Graduate Medical College in Community Medicine in April, 1999.

She Served as a Consultant Community Physician / Epidemiologist in the Institute of Child Health, UNTH from October 2, 2000 – May 31st 2005. She was appointed Lecturer 1 in the department of Community Medicine, UNEC in June 2005 and promoted to Senior Lecturer in October 2010. She worked as a central facilitator in the polio eradication programme from 2000 – 2005. She has attended many conferences and has many publications to her credit. Research interests include health education, reproductive health, HIV/AIDS and Epidemiology.

Dr. NWOBI Emmanuel Amaechi



Dr Emmanuel Amaechi NWOBI is a Consultant Community Physician and Epidemiologist. He obtained the MBBS degree in 1990 from University of Jos, Nigeria and Master of Public Health (MPH) in 1997 from University of Lagos, Nigeria. He had his residency training in Community Medicine in University of Nigeria Teaching Hospital and obtained the Fellowship of The Medical College in Public Health (FMCPH) in 2004. He has undergone continuing professional education in teaching methods, public health research in infectious diseases, bioethics, mentorship, case-based teaching methods, research methodology, health policy and management.

Currently a Senior Lecturer in the Department of Community Medicine, College of Medicine, University of Nigeria and Honorary Consultant in Community Medicine in the University of Nigeria Teaching Hospital (UNTH) Enugu. Teaches International Health, Environmental Health and Epidemiology of Communicable diseases. He coordinates the residency training in the Department of Community Medicine, UNTH. He also provides clinical care and mentors resident doctors in HIV medicine. He holds an adjunct appointment as Senior Lecturer in Ebonyi State University Abakalilki where he teaches Health Planning, Management & Policy and International Health.

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Dr. Christiandolus Oseloka Ekwueme (Associate Director)



Rev. Dr. Ekwueme, Oseloka, Christiandolus, is a senior lecturer with the University of Nigeria, Nsukka. He is presently the Associate Director of the Institute. His duty post is the Department of Community Medicine, College of Medicine, University of Nigeria, Enugu Campus; and a consultant Community Health Physician with the University of Nigeria Teaching Hospital, Ituku-Ozalla, Enugu. He

obtained is Bachelor of Science, 1986, Eastern Michigan University, U.S.A; MB.BS 1992, University of Nigeria, Nsukka; FMCPH 2004 National Postgraduate Medical College of Nigeria; MPH 2004, University of Nigeria, Nsukka. He is a member of the following professional associations: Nigerian Medical Association, Medical and Dental Consultants of Nigeria and Association of Public Health Physicians of Nigeria. He has acted as a consultant to World Health Organization (WHO); FMOH Nigeria; PATHS2 an arm of DFID; ESMOH; GLRA; and over 40 publications in various medical disciplines. His hobbies include reading, research, writing, and religious activities

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Dr Chima Ariel Onoka



Chima Ariel Onoka graduated with MBBS degree from University of Port-Harcourt Nigeria in 2000 and obtained a Master of Science degree in Health Policy Planning and Financing from the University of London (London School of Hygiene and Tropical Medicine, and London School of Economics and Political Science) and a PhD in health systems economics from the University of London. He also has MPH degree from the University of Nigeria, Enugu, and is a fellow of the West African College of Physicians (Community Medicine) where he also serves as examiner. He is a Senior Lecturer in the health

systems, policy and management unit of the Department of Community Medicine, College of Medicine, University of Nigeria and a Consultant Public Health Physician with the University of Nigeria Teaching Hospital. As a community physician, he also specially focuses on the policy and management systems for provision and delivery of various disease control programmes and health interventions. As operational head for research for several years with the Health Policy Research Group, College of Medicine University of Nigeria Enugu campus, he led the field component of several small to large scale studies focused on healthcare financing and equity, funded by local and international organisations including the World Health Organisation and the UK Department for International Development. He has served as consultant to the National Primary Health Care Development Agency (health financing unit), Federal Ministry of Health (department of planning, research and statistics), PATHS2 (Abt Associates) and Health Reform Foundation of Nigeria (HERFON). He also served for 2 years as country researcher for IHP+ Results. He managed the field work for the evaluation of the Axios supply chain management systems in 2010 and was the lead consultant for the Joint Annual Review of the health sector for Lagos State Nigeria in 2012. He has also served as principal investigator for studies funded by the Wellcome Trust UK (Economics of IPTp for malaria Coverage), and the WHO Alliance for Health Policy and Systems Research (Analysing Efforts towards Universal Coverage Reforms in Nigeria). He has recently researched the policy development processes of the National Health Insurance Scheme in Nigeria and the role of the private sector in national health financing systems, and was one of the theme speakers at the 57th National Council on Health, which is the highest policy advisory body for the health sector in Nigeria.

Dr. Obi Ikechukwu Emmanuel ikechukwu.obi@unn.edu.ng, obinuel@gmail.com



Dr. Obi Obtained the MBBS degree in 1998 from the Nnamdi Azikiwe University Awka Anambra State Nigeria, Fellowship of the National Post Graduate Medical College of Nigeria in 2008, a Masters in Public Health in 2009 from the University of Nigeria Nsukka. He is currently a Senior Lecturer [lecturing ‘Communication for Health’ to MPH students, Epidemiology and Community Directed Intervention (CDI) to undergraduate students] and is a Honorary Consultant to the University of Nigeria Teaching Hospital, Staff and Occupational health Clinic/Chest Clinic.

Residency training for the fellowship in Public Health Medicine (2002 – 2008), was strengthened by personal improvement efforts acquiring skills and competencies that have enabled the diligent execution of several short term consultancy assignments as a health development consultant during same period and beyond. Two years of this period of residency, involved coordinating the training activities of fellow residents in the department as Chief Resident. He has been member or lead on committees/boards of his department, faculty and college and university. Research endeavours and publications have been a part of the process, while being happily married with children. He has demonstrable core competencies in Health Promotion Advocacy and Communication, Data Management and Analysis, Monitoring and Evaluation, HMIS, Training/Curriculum Development, Integrated Supportive Supervision [ISS], Strategic planning, Social Development – Community participation and Participatory approaches, Change management, Institutional Capacity Building, NGO/CBO development and Governance Evaluation. His research interests include: Health Communication, Health Promotion, Primary Health Care and Epidemiology.

Dr. Babatunde Ishola Omotowo



Dr Omotowo IB obtained MBBS from University of Ilorin, Nigeria in 1987. He completed MPH from University of Nigeria, Nsukka in 2006, and FWACP from West African College of Physicians in 2009. He worked as a Medical Advisor for German Leprosy and Tuberculosis Relief Association from 2010 to 2012.

He is a Senior Lecturer at the Department of Community Medicine, College of Medicine, University of Nigeria, Enugu Campus since August, 2012. He is the MBBS Coordinator in the department since then. He has published some papers in both local and international journals. His interests are infectious and non-communicable diseases.

Dr (Mrs) Chinyere O. Mbachu

chinyere.mbachu@unn.edu.ng



Dr. Mbachu graduated from medical school in August, 2004 and joined University of Nigeria Teaching Hospital in 2008 to undertake a fellowship training programme in community health. She became a Fellow of the West African College of Physicians (FWACP) in Community Health in 2013 and practiced as a consultant Community Health physician for 3 years at the Federal Teaching Hospital Abakaliki. She taught health management and primary health care modules to undergraduate medical students in Ebonyi state University as a part-time lecturer for two and half years after which she was appointed a Senior lecturer in the Department of Community Medicine, College of Medicine University of Nigeria Enugu campus.

Her early career contributions have focused on applying knowledge and skills in building the field of health policy and systems research in Nigeria and building the capacity of policy makers and practitioners in the use of evidence for policymaking and practice. She has also spent considerable amount of time training undergraduate and postgraduate medical doctors in community health. She participated in developing the curriculum for “Introduction to health policy and systems research” and “Introduction to Complex Health Systems” available on the CHEPSAA website www.hpsa-africa.com

Her main research interests on health systems governance and accountability; analysis of health policies, plans and strategies; political economy analysis of health reforms; health services research including evaluation of malaria control interventions; and getting research evidence into policy and practice. She is currently a member of the following national and international professional associations: Association of Public Health Physicians in Nigeria; West African Emerging HPS Research and Practice Network (WANEL); RESYST Consortium; Health Systems Global; and Collaboration for Health Policy and Systems Analysis in Africa

Dr. Arthur Chinedu Idoko



Dr. Arthur Chinedu Idoko obtained his MB.BS. degree from the University of Jos. He holds a Master of Public Health degree (MPH) and a Certificate in Health Economics from the World Bank Institute Washington DC. He is a fellow of the West African College of Physicians (FWACP). He is widely travelled, and has attended and presented papers in several international conferences. Dr. Idoko is a Consultant Physician in the University of Nigeria Teaching Hospital (UNTH) and a lecturer in the department of Community Medicine, Faculty of Medical Sciences, College of Medicine of the University of Nigeria. On the political front, he was Director of Socials of the Association of Resident Doctors (ARD) and member of a five – man panel set up by the People’s Democratic Party (PDP) National Working Committee (NWC) that organized special congresses for the Plateau State National, State Assembly and Gubernatorial Primaries in 2011. Dr Idoko was in February 2014 appointed the Chairman, Enugu State Hospitals Management Board by His Excellency the Governor of Enugu State. He plays the piano, tennis and swims at his spare time. He is happily married and is blessed with two sons.

Dr. Aniwada Elias eliasaniwada@unn.edu.ng eaniwada@gmail.com



Dr. Aniwada obtained the MB, BCh Degree from the University of Calabar in May 2004, an MSc Epidemiology and Biostatistics from the University of Ibadan in 2012, Fellowships of the West African College of Physicians/ National Post graduate Medical College of Nigeria in 2013 and the Masters in Public Health from the University of Nigeria Nsukka in 2014.

Dr. Chuka Agunwa



Dr. Chuka Agunwa obtained his MBBS degree from the University of Nigeria in 2004, and certificate in biostatistics from the Harvard School of Public Health in 2012. He is a Fellow of the West African College of Physicians and member, National Post graduate Medical College of Nigeria. Prior to his appointment was a Consultant Community Health Physician at Madonna University Teaching Hospital, Elele, Rivers State, where he held the position of the Head, Department of Community Medicine and Primary Health Care. With primary research interests in Epidemiology, Biostatistics and Behavioural Change Communication he has worked at various levels of the health system providing consultancy services to the World Health Organization, UNICEF and DFID, especially within the south east region over the past 5 years.

He is a recipient of the Oyediran award for the best candidate in the part 1 examination of the Faculty of Community Health, West African College of Physicians and is co-author of several publications. He is also a national trainer in the Federal Ministry of Health Integrated Management of Childhood Illnesses (IMCI) program. He is an active member of several organizations such as the Association of Public Health Physicians of Nigeria and the Christian Medical and Dental Association. He is happily married to his best friend, Nneka and they are blessed with four lovely children.

Sister (Dr) Ancilla Umeobieri



Rev. Sister Dr Umeobieri Ancilla Kate obtained her MBBS degree from the Nnamdi Azikiwe University Awka in 1998 and her Master of Public Health degree from the University of Nigeria, Nsukka in 2013. She is a Fellow of West African College of Medicine, 2015 and a lecturer at the Department of Community Medicine, College of Medicine, University of Nigeria, Enugu Campus. Her research interest is Primary Health Care, Health promotion and communication.

Dr (Mrs) Tochi Okwor

Telephone: 002348080803838; **Email:** okwortochi@yahoo.com



Dr. Okwor received an MBBS degree from the College of Medicine, University of Nigeria, a Masters in Public Health from the University of Lagos, a Masters in Occupational Medicine from the University of Manchester and Postgraduate Fellowship in Public Health of the National Postgraduate Medical College of Nigeria. She is currently serving as a Consultant Public and Occupational Health Physician at the University of Nigeria Teaching Hospital, Ituku Ozalla Enugu state where she consults at the staff clinic and trains resident doctors. Dr. Okwor was also the National training coordinator for the Ebola Emergency

Operations Centre during the 2014 Ebola Outbreak in Nigeria where she trained healthcare workers on infection prevention and control.

Her research efforts are focused in occupational respiratory diseases and infection prevention and control in healthcare two areas in which Dr. Okwor has published various scientific articles. She was part of the team that developed the AFENET Basic Healthcare Epidemiology and Infection Prevention and Control Training Curriculum. Dr. Okwor is a member National Anti-Microbial Resistance Technical Working Group (Nigeria) that developed the National Antimicrobial Resistance Action Plan, member Case Management Working Group of the World Health Organization Global Task Force on Cholera Control and Member National Working Group developing guidelines for healthcare workers and authorities on public health response to acute watery diarrhoea in Nigeria.

Dr (Mrs) Chinyere C. Okeke



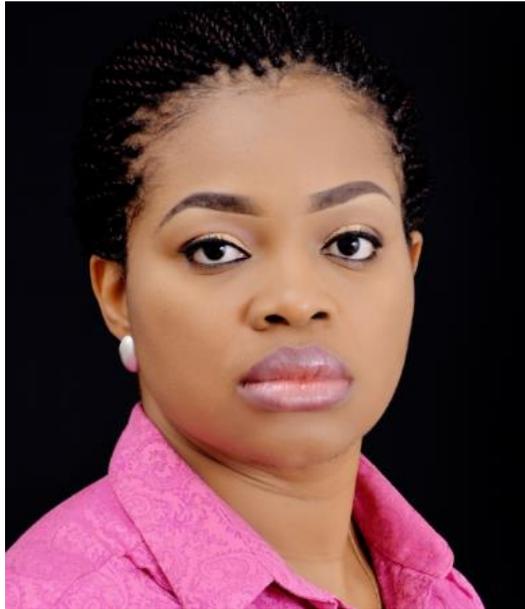
Dr. Okeke Chinyere Cecilia graduated from the University of Calabar as a medical doctor in 2007 and obtained her Master of Public Health degree from the University of Nigeria Nsukka in 2015. She obtained a Certificate in Health Policy Analysis from the University of Western Cape in 2016. She is a Fellow of the West African College of Physician (Community Health). She is currently a lecturer in the Department of Community Medicine, Faculty of Medical Sciences, College of Medicine of the University of Nigeria.

She is involved in Clinical Consultation (general care), outpatient and inpatient care in both chest, staff and HIV clinics of the University of Nigeria Teaching Hospital; teaching and research in communicable and non-communicable diseases. Over the past three years, she has been lecturing medical students and community health officers and has supervised medical students' projects.

She has been involved in a lot of projects including Developing the study manual for the Realist evaluation of MCH programs in Nigeria – REVAMP project (MRC & DFID funded) in Anambra State, Nigeria; assessment of the NHIS-MDG free Maternal and Child Health program and the prospects for program re-activation/scale-up using the Basic Health Care Provision Fund (Bill & Melinda Gate Foundation Funded) and the Nigerian Primary Care Systems Profiles & Performance (PRIMASYS) funded by the Alliance for Health Policy and Systems Research, Geneva, Switzerland. She was also involved in the development of modules on prevention of viral hepatitis for the training of health workers on Hepatitis infection in Nigeria for the federal Ministry of Health and the development of the Strategic Health Development Plan of Enugu State Nigeria.

She is a member of the following professional associations: Nigerian Medical Association, Association of Public Health Physicians of Nigeria, International Health Economics Association and Health Systems Global. Her research interest is Health Policy and Systems Research and Analysis as well as knowledge translation.

Dr Ijeoma Uchenna Itanyi



Ijeoma Uchenna Itanyi was an AGIP scholar (National Merit Category), at the University of Port-Harcourt where she graduated with MBBS in 2005. In 2010, she obtained a Master’s degree in Public Health (with honours) from the Bloomberg School of Public Health, Johns Hopkins University, Maryland, USA. She has a certificate in Health Economics from the World Bank Institute, USA, and is a fellow of the West African College of Physicians in Community Health. She is currently a lecturer in Epidemiology and Medical Statistics unit of the Department of Community medicine, College of Medicine, University of Nigeria. Her research interests are prevention of non-communicable diseases (NCDs), implementation science research and health systems strengthening in resource-limited settings. She

received an early career training award for capacity building in chronic disease research in Africa from University of Cambridge. She has coordinated both small and large-scale epidemiological and implementation research studies (on diabetes and HIV) funded by international organisations like the National Institutes of Health (NIH), USA and Wellcome Trust, UK. She served as principal investigator for a study that evaluated inequalities in adolescent tobacco use in southeast, Nigeria, funded by the NIH through Medical Education Partnership Initiative Nigeria (MEPIN). She has also served as technical consultant to UNICEF and CS-SuNN (on nutrition), Abt Associates and PATHS2 (on health systems strengthening and public-private partnership), National Primary Healthcare Development Agency (on child health), and State Ministry of Health (Nutrition unit), Anambra State. She has presented her research on NCDs at several national and international fora.

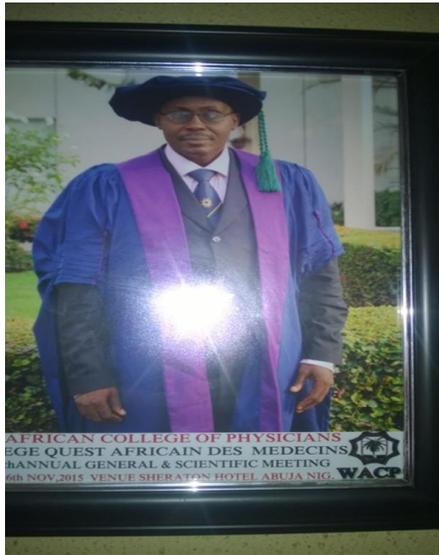
Dr Ugwunna Nwachukwu Chinedu



Nwachukwu Chinedu Ugwunna has MBBS degree from University of Nigeria Nsukka Enugu Campus in 2002 and the degree of MPH in Community Medicine (Public Health) of the University of Nigeria Nsukka in 2015. He is a fellow of the West African College of Physicians (Community Medicine). He is also a Lecturer in the Primary health care, Health promotion and communication unit of the Department of Community Medicine, Faculty of Medical Science, College of Medicine, University of Nigeria Ituku

Ozalla Campus. He has served as consultant to the National Primary Health Care Development Agency (NPHCDA), Federal Ministry of Health, National TB Control Programme, PATHS1 (DFID), PATHS2 (DFID), GLRA, UNICEF and World Health Organization (WHO). He served in the team of two consultants facilitating the development of Minimum Service Package (MSP) for three States Primary HealthCare Development Agencies that include Imo State Primary Healthcare Development Agency, Anambra State Primary Health Care Development Agency and Abia State Primary HealthCare Development Agency; As well as facilitated the development of the Imo State Primary HealthCare Development Agency Primary Health Care Regulation. As a public health professional consultant in the field He assisted with the feeding in of questionnaire into the EPI Info software for PATHS in 2008; He served as state supervisor in the data quality survey of Ondo State TB records and Laboratory test of 2009 and 2010 for GLRA September 2010 as well as state supervisor in the public expenditure Management review of Enugu state health sector for PATHS2 November, 2010. He also served as Cluster Facilitation Officer (CFO) for PATHS2 (DFID) overseeing the Enugu Ezike Cluster (Health District Area) comprising Igboeze North, Igboeze South and Udenu LGAs of Enugu State February 2015- March 2016.

Dr Ntat Charles Ibiok



Ntat Chares Ibiok graduated with MBBS degree from University of Ilorin Nigeria in 1988 and obtained a Master of Pubic heath degree in University of Lagos in 1999. He is a fellow of the West African College of Physicians (Community Medicine). He is a Lecturer in the Occupational and Environmental Health unit of the Department of Community Medicine, College of Medicine, University of Nigeria and a Consultant Public Health Physician with the University of Nigeria Teaching Hospital. As a Community physician, he also specially focuses on epidemiology and disease surveillance and delivery of various disease control programmes and health interventions. He has served as central facilitator to the National Immunisation Day Program of the Federal Ministry of Health.

Dr Olanike Agwu-Umahi



Olanike Agwu-Umahi graduated with the MBBch degree from the University of Calabar, Nigeria in 1998. She also obtained a Master of Science with distinction in Global Health from the University of Chester, United Kingdom in 2015 in addition to the Master of Public Health (MPH) degree from the University of Nigeria, Nsukka, in 2009. She is a Fellow of the West African College of Physicians (Community Health) and a lecturer in the Environmental and Occupational Health Unit of the Department of Community Medicine, University of Nigeria. Her areas of interest include Global Health Research, Environmental and Occupational Health. She has served as a Consultant and pioneer of Occupational Health at the Federal College of Dental Technology and Therapy, Enugu for 5 years. She also served as Consultant and facilitator to the National Agency for Drug and Food Administration (NAFDAC) on the Stakeholder Sensitisation on the Use of Fake and Substandard Drugs in 2011. She has recently completed a research on ‘Effects of training sachet water producers on the production and quality of sachet drinking water in Enugu.

Dr (Mrs) Chinyere Nkiruka Okafor (Course Coordinator)



Dr. Okafor Chinyere graduated from University of Nigeria, Enugu Campus with an MBBS in 2001. A trained Physician in Internal Medicine and obtained a Master`s degree in Public Health in 2013 from University of Nigeria Nsukka. A trained HIV specialist and had been a Consultant Clinician in Adult HIV clinic in UNTH under PEPFAR/APIN/CCCRN from 2008-2016 and a Site coordinator of the center from 2014-2016. Has undergone continuing professional education in teaching methods, public health research and trainings in HIV medicine, mentorship, Grant writing/manuscript writing , research methodology, health policy and management. She has been involved in training doctors and other health personnel in HIV medicine both in UNTH and other HIV pharmaceutical companies. She is a member of the Health Policy and Research group, College of Medicine, University of Nigeria, and formerly a member of the research and ethics committee, Faculty of Basic Medical Sciences, College of Medicine, University of Nigeria and has continued to improve her academic career by participating actively in research and trainings. She is currently a lecturer in the Department of Community Medicine under Epidemiology and Medical Statistics unit. Her research interest is in Public Health /Epidemiology particularly prevention of non-communicable diseases and health promotion strategies, Public Health Physiology and HIV Medicine. She is the course coordinator for the Institute.

DR Enyi Ifeoma Etiaba



Dr Etiaba graduated from University of Nigeria, Enugu Campus with an MBBS degree in 1988. She obtained her Certificate in General Medical Practice (Family Medicine) of Joint Committee on Postgraduate Training for General Practitioners, London, UK in 2003 and MSc degree from University of London, United Kingdom in 2009. She holds the DLSHTM from London School of Hygiene and Tropical Medicine, London, UK in 2010. She obtained Certificate courses from the University of Western Cape South Africa in: Introduction to Complex Health Systems 2014; Health Management 2017; Understanding and Analysing Health Policy 2017;

Introduction to Health Policy and Systems Research 2017.

Dr. Etiaba presently lectures in Epidemiology and Research Methods/Biostatistics at the Department of Health Administration and Management, College of Medicine, University of Nigeria, Enugu Campus but has a keen interest in policy issues and policy implementation. She is also a senior researcher with the Health Policy Group, College of Medicine, University of Nigeria, Enugu Campus. In addition to teaching skills, she has research skills and project management skills and have been involved in monitoring of various projects in the course of my work. Her ongoing research include capacity building of producers and users of evidence in Health Policy and Systems Research and Analysis for better control of endemic tropical

diseases-An implementation research; Determinants of Effectiveness and Sustainability of a Novel Community Health Workers Programme in improving Maternal and Child Health in Nigeria.- A Realist Evaluation. She is a Research Fellow of the Institute.

OKOLI, Chijioke Ifeanyi



Mr Okoli is a health economist and lecturer in the Department of Health Administration & Management, University of Nigeria, Enugu Campus. He is also a part-time researcher with Health Policy Research Group, University of Nigeria and an associate Fellow of the Institute of Public Health University of Nigeria, Enugu Campus. He has Master of Public Health specializing in Health Economics from University of Cape South Africa; M.Sc (Economics) from University of Nigeria and B.Sc (Economics) from Enugu State University of Science and Technology. His research interests are on health financing with focus on universal

health coverage, communicable and non-communicable disease control, maternal and child health. He has multi-country collaborative research experience with the Consortium for Research on Equitable Health Systems (CREHS) and Resilient & Responsive Health Systems (RESYST) Consortium funded by UKaid/DfID. He trains fieldworkers and supervises field project such as “Reducing Maternal and Perinatal Mortality in Nigeria: A Needs Assessment Study in Enugu State” a pilot project of the Inter-Academy Medical Panel (IAMP) in collaboration with Nigerian Academy of Science for the attainment of Millennium Development Goals. Currently, he is principal investigator on the research project- “Achieving Universal Financial Risk Protection: A Political and Economic Analysis in Enugu State, Nigeria” funded by the Nigeria Tertiary Education Trust Fund (TETFUND). He has several publications in both local and international peer reviewed journals. He is a member of the following professional associations- International Health Economics Association (iHEA), African Health Economics and Policy Association (AfHEA), Nigeria Health Economics Association (NiHEA) and an associate research fellow with African Heritage Institution formerly African Institute for Applied Economics Enugu – Nigeria. Also he is a member two research groups - Health Administration & Management Research Group, and Hypertension & Diabetes Research group. He has consultancy experience with development partners’ like- UNFPA, PATHS2, European Union/Support to Reforming Institutions Programme and World Bank Malaria Booster program. Above all, as lecturer he has teaching skills with good interpersonal relationship.

Mr. Ezugwu Paul Ikechukwu:



Mr Ezeugwu, Ikechukwu Paul obtained his professional Confidential Secretary Certificate Course from the Institute of Management and Technology (IMT) Enugu in 1992. He was employed by the College of Medicine, University of Nigeria, Enugu Campus on 10th February, 1994 as a Confidential Secretary and rose to the post of Chief Confidential Secretary on promotional bases in October, 2014. He has worked in various departments of the College of Medicine since my assumption of office on rotational basis. He is presently the Chief Confidential Secretary to the Institute. He is the Vice Chairman of the St. Elizabeth Catholic Men Organization (CMO) of the Sacred Heart church Enugu and loves watching football, reading novels and listening to sentimental music from western world on the media.

Mr. Udeh, Oscar Tochukwu



Udeh Oscar Tochukwu graduated in 2007 with a BSc degree in Accountancy and MBA degree in Management in 2012 from the University of Nigeria Nsukka. He is a member of the Sports Writers Association of Nigeria (SWAN), Enugu State Chapter and Nigeria Union of Journalists (NUJ). He is currently the Desk Officer and International Relation Officer of the Institute

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POST GRADUATE PROGRAMMES AVAILABLE AT THE INSTITUTE OF PUBLIC HEALTH

- 1. MSc. Public Health (Epidemiology & Biostatistics stream)**
- 2. MSc. Public Health (Clinical Epidemiology stream)**
- 3. MSc. Public Health (Health Systems, Policy and Management stream)**
- 4. MSc. Public health (Environmental and Occupational Health Stream)**
- 5. MSc. Public Health (Health promotion and communication stream)**
- 6. MSc. Bioethics**
- 7. Doctor of Philosophy (PhD) Degree**
- 8. Doctor of Public Health (DrPH) Degree**

DETAILED ACADEMIC PROGRAMMES

1. EPIDEMIOLOGY & MEDICAL STATISTICS

MSc. Public Health – Epidemiology & Medical Statistics

STRESS AREAS

“0” = Core Public Health Courses

“1” = Disease epidemiology

“2” = Epidemiologic techniques

“3” = Data Analysis

“4” = Applied Epidemiology

“5” = Health Outcomes

“9” = Project Report

COURSE OUTLINE (MSc)

Course Code	Course Title	Units
1st Semester	CORE COURSES	
PEP 701	Basic Epidemiology	2
PEP 703	Basic Medical Statistics	2
PGC 601	Research Methodology and Application of ICT in Research	3
PPC 723	Primary Health Care	2
PHS 751	Global Health	2
2nd Semester		
PEP 722	Methods in Analytical Epidemiology	2
PEP 742	Applied Epidemiology	2
PEP 712	Epidemiology of Infectious Diseases	2
PEP 724	Epidemiology of Non-Communicable Diseases	2
PEP 732	Statistical Methods in Epidemiology	2
PEP 734	Survey Data Analysis	2
3RD Semester		
PCE 745	Research Protocol Development	2
PEP 747	Epidemiology Reviews	2
PCE 736	Evidence Synthesis: systematic reviews and meta-analysis	2
PCE 790	Project Report	6
PCE 791	Masters project report presentation	3
	Total	38

	ELECTIVES (Minimum of 4 credits)	
PPC 732	Nutrition and Health	2
PHS 711	Introduction to Health Systems	2
PCE 711	Clinical Research Methods	2
POE 703	Introduction to Environmental Health and Safety	2
PEP 752	Health Outcomes Research	2
PCE 771	Introduction to Genetic Epidemiology	2
	Grand total	42

COURSE DESCRIPTION

<p>Basic Epidemiology PEP 701 2 Units</p>	<p>Definitions of epidemiology; measures of disease frequency; measures of association and impact; epidemiologic study designs, both experimental and non-experimental; basic principles of epidemiologic research design; types of research questions, analysis of epidemiologic studies.</p>
<p>Basic Medical Statistics PEP 703 2 Units</p>	<p>Theory and application of statistical techniques that commonly are used in medical research: data types, measures of central tendency and variability, probability distributions, significance testing, confidence intervals, sample size calculation and power, measures of association, statistical tests, non-parametric analyses, analysis of variance and the basics of linear regression, use of SPSS.</p>
<p>Research Methodology and Application of ICT in Research PGC 601 3 Units</p>	<p>In-depth research work aimed at acquiring full knowledge and presentation 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 hypothesis. Detailed treatment of methods of collecting relevant research data and the format for presenting research results (from designing the table of content to referencing, bibliography and appendix). Data analysis and results presentation in different disciplines using appropriate analytical tones. Methods of project/ project report writing. Application of appropriate advanced ICT tools relevant in every discipline for data gathering, analysis and results presentation. Essentials of spread sheet, internet technology and internal search engines. All registered master degree students must attend a solution and internet based interactive workshop to be organized by the school of post graduate studies for practical demonstration and application of the knowledge acquired from the course conducted by selected experts.</p>
<p>Epidemiology of Infectious Diseases PEP 711</p>	<p>Definitions; principles of the transmission of the infectious agents of public health importance (viruses, bacteria, rickettsia, mycoplasma, fungi, and protozoan and helminth parasites); the role of vectors, reservoirs, and environmental factors; pathogen and host characteristics that determine</p>

2 Units	the spectrum of infection and disease; endemicity and outbreaks of selected infectious diseases; principles of disease control and surveillance.
Epidemiology of Non-Communicable Diseases PEP 713 2 Units	Descriptive epidemiology and sources of incidence and mortality data; biological basis of non-communicable diseases such as hypertension, heart disease, diabetes, obesity, renal disease, cancer and mental illness; methodological issues relevant to non-communicable disease research; causal inference; major environmental risk factors; genetic susceptibility
Methods in Analytical Epidemiology PEP 722 2 Units	Analytical epidemiology: observational studies including cross sectional, case-control and cohort studies, randomized controlled trials and community trials, measures of association and impact; biases in epidemiologic studies (selection, information and confounding bias), effect modification.
Applied Epidemiology PEP 742 2 Units	Practical applications of epidemiology: outbreak investigations, development and evaluation of surveillance systems, evaluation of screening programs, and program evaluation, case study in practical epidemiology, laboratory practical(microscopic examination of human specimens to identify common microbes and parasites).
Statistical Methods in Epidemiology PEP 732 2 Units	Advanced statistics: linear regression, model assumption and checking, regression diagnostics; logistic regression and likelihood ratio test; Poisson regression; and survival analysis (life tables, Kaplan-Meier analysis and Cox regression models).
Survey Data Analysis PEP 734 2 Units	Sampling methods for population surveys, principle of weighting in surveys, preparation of survey data for analysis, and statistical analysis of survey data using SPSS or Stata statistical software, practical session (students are expected to analyze a portion of the Nigerian demographic and health survey (DHS) data set).
Research Protocol Development PCE 742 2 Units	Students will be taught how to develop a research protocol. Students will be expected to present their research work in progress during classes.
Primary Health Care PPC 723 2 Units	The basic health services Scheme (BHSS), The Alma Ata Declaration, Principles & Components of PHC, Old and New PHC Implementation & Organizational Structure in Nigeria, PHC Planning and Management, Community diagnosis and Mobilization for Action, PHC related Global Health Programmes, Bamako initiative, Monitoring and Evaluation of PHC activities, Developing PHC programmes, Medical Officer of Health.
Global Health PHS 751 2 Unit	Origins and development of global health, Global Disease Burden, Trade and Liberalisation, Global Health regulations and legislation, concepts in global health policy and practice, WHO constitution, structure scope & Functions, WHO milestones, International and voluntary health organisations and their roles, Port health services, Disaster management in public health; Environmental Health in Emergencies, Environmental health laws in Nigeria and International; International Labour Organization, Occupational health laws in ILO and Nigeria.

<p>Epidemiology Reviews PEP 744 2 Units</p>	<p>Critical review of literature topics of importance in epidemiology: each student will critically appraise a journal article of relevance in the field, make an oral presentation of the appraisal (under the following headings: Introduction, Methods, Findings, Discussion, Conclusion, Recommendation and References) and submit a written report.</p>
<p>Nutrition and Health PPC 732 2 Units</p>	<p>Basic nutritional requirements & metabolism, Nutritional problems of public health significance in Nigeria, Nutrition related chronic diseases, Dietary guidelines for common diet related diseases, Quantification and assessment of dietary intake and nutritional status, Organisation of community based nutritional programme, National food & nutrition policy, Current topics in nutritional epidemiology, Maternal and child health nutrition, Developing a Nutrition programme for a target group.</p>
<p>Introduction to Health Systems PHS 711 2 Units</p>	<p>Definitions, importance, political economy of African Health systems, understanding health systems frameworks and using them to analyze health systems as a basis for strengthening the systems, Health system development case studies, Health systems governance, strengthening health systems towards PHC renewal and UHC, People, health systems and health system development, Intervening in health systems, Health systems complexity and change, Health Sector Reforms.</p>
<p>Evidence Synthesis: systematic reviews and meta-analysis PCE 736 2 Units</p>	<p>Introduction to the fundamentals of systematic reviews and meta-analysis: introductory principles of meta-analysis; protocol development; search strategies; data abstraction methods; quality assessment; meta-analytic methods; and applications of meta-analysis</p>
<p>Clinical Research Methods PCE 711 2 Units</p>	<p>Advanced, and clinical-focused lectures in observational studies including case-control and cohort studies (including nested study designs: nested case-control and case-cohort); randomized controlled trials; measures of association and measures of impact; measures of validity and reliability (sensitivity, specificity, positive and negative predictive values of screening tests; Kappa Statistic); biases in clinical epidemiologic studies (selection, information and confounding bias); effect modification; and analysis of clinical epidemiological research.</p>
<p>Introduction to Environmental Health and Safety POE 713 2 Units</p>	<p>Definition and classification of environment; Environmental hazards; relationship between health and environment; Preventive environmental health measures; environmental health components and safety</p>
<p>Health Outcomes Research PEP 752 2 Units</p>	<p>Measurement of quality in health care, and examining the validity of alternative measures, impact evaluation, observational and quasi-experimental research studies in terms of health outcomes, addressing the advantages and limitations of alternative designs.</p>
<p>Introduction to Genetic Epidemiology PCE 771 2 Units</p>	<p>Basic genetics, tools used by geneticists and genetic epidemiologists, integration of genetic data into traditional epidemiologic study designs, practical application.</p>

<p>Project Report PEP 790 & Seminar PEP 791</p>	<p>In the first semester, students must complete two online courses offered in the Collaborative Institutional Training Initiative (CITI) programme: 1) The Biomedical track of Human Subjects Research course and 2) The basic course in Responsible Conduct of Research, and submit certificates before developing proposal in second semester for a research guided by one or two appointed supervisors. The output, a project report should will be presented at a seminar, and defended before an external supervisor.</p>
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DOCTORAL PROGRAMMES

DrPH & PhD Public Health – Epidemiology & Medical Statistics

STRESS AREAS

“0” = Core Public Health Courses

“1” = Disease epidemiology

“2” = Epidemiologic techniques

“9” = Project Report

COURSE OUTLINE (First Year)

Course Code	Course Title	Units
1st Semester		
PGC 701	Synopsis and Grant Writing	3
PEP 801	Applied Epidemiology	3
2nd Semester		
PCE 812	Genetic Epidemiology	3
PEP 822	Advanced Statistical Methods in Epidemiology	3

COURSE DESCRIPTION (DrPH & PhD)

<p>Synopsis and Grant Writing PGC 701 3 Units</p>	<p>Identification of types and nature of grants and grant writing; mining of grants application call on the internet. Determining appropriate strategy for each grant application, study of various grants application structures and contents and writing of concepts notes, detailed project description, budgeting and budget defense. Study of sample grant writings in various forms and writings of mock research and other grants. Identification of University of Nigeria synopsis, structures and requirements (Introduction, Methodology and Results). Determining the content of each sub unit of the synopsis. Steps in writing of synopsis from the thesis /thesis document, structural and language issues. Common errors in synopsis writing and strategy in avoiding them. The roles of students and the supervisor in the production of the synopsis. Writing of mock synopsis. All registered DRPH students must attend a solution based interactive workshop to be organised by the school of post graduate studies for a practical demonstration and application of the knowledge acquired from the course conducted by selected experts.</p>
<p>Applied Epidemiology PEP 801 3 Units</p>	<p>This course will focus on the practical applications of epidemiology. Topics include: Outbreak investigations; Development and evaluation of surveillance systems; Evaluation of screening programs; and program evaluation.</p>
<p>Genetic Epidemiology PCE 812 3 Units</p>	<p>Genetic Epidemiology of Complex Diseases; Genetic Epidemiologic Research Methods; Introduction to Molecular Biology; Siblings Recurrence Risk & Sibling Risk Ratio; Contribution of twins to the study of complex traits and diseases.</p>
<p>Advanced Statistical Methods in Epidemiology PEP 822 3 Units</p>	<p>Topics include: Linear regression; Model assumption and checking; Regression diagnostics; Logistic regression; Likelihood ratio test; Poisson regression; Survival analysis (life tables, Kaplan-Meier analysis and Cox regression models).</p>

2. CLINICAL EPIDEMIOLOGY

MSc. Public Health – Clinical Epidemiology

STRESS AREAS

- “0” = Core Public Health Courses
- “1” = Clinical Research Methods
- “2” = Data analysis in clinical epidemiology
- “3” = Evidence synthesis in clinical epidemiology
- “4” = Research protocol
- “5” = Clinical epidemiology reviews
- “6” = Pharmaco-epidemiology
- “7” = Genetics
- “9” = Project Report

COURSE OUTLINE

Course Code	Course Title	Units
1st Semester		
PEP 701	Basic Epidemiology	2
PEP 703	Basic Medical Statistics	2
PGC 601	Research Methodology and Application of ICT in Research B	3
PCE 711	Clinical Research Methods	2
PCE 771	Introduction to Genetic Epidemiology	2
2nd Semester		
PEP 732	Statistical Methods in Epidemiology	2
PCE 724	Data Management for Clinical Research	2
PCE 736	Evidence Synthesis: systematic reviews and meta-analysis	2
PEP 712	Epidemiology of Infectious Diseases	2
PEP 714	Epidemiology of Non-Communicable Diseases	2
PCE 742	Research Protocol Development	2
3rd Semester		
PCE 752	Clinical Epidemiology Seminars	2
PCE 762	Foundations of Pharmaco-epidemiology	2
BETH 732	Bioethics & Law	2
PCE 790	Project Report	6
PCE 791	Masters Project Report presentation	3
	Total	38
ELECTIVES (Minimum of 4 credits)		
POE 713	Introduction to Environmental Health and safety	2

PEP 722	Methods in Analytical Epidemiology	2
POE 736	Managing toxins and special wastes	2
PHS 711	Introduction to Health Systems	2
PEP 752	Health Outcomes Research	2
PEP 734	Survey Data Analysis	2
	Grand total	42

COURSE OUTLINE

<p>Basic Epidemiology</p> <p>PEP 701 2 Unit</p>	<p>Definitions of epidemiology; measures of disease frequency; measures of association and impact; epidemiologic study designs, both experimental and non-experimental; basic principles of epidemiologic research design; types of research questions, analysis of epidemiologic studies.</p>
<p>Basic Medical Statistics</p> <p>PEP 703 2 Units</p>	<p>Theory and application of statistical techniques that commonly are used in medical research: data types, measures of central tendency and variability, probability distributions, significance testing, confidence intervals, sample size calculation and power, measures of association, statistical tests, non-parametric analyses, analysis of variance and the basics of linear regression, use of SPSS.</p>
<p>Research Methodology and Application of ICT in Research</p> <p>PGC 601 3 Units</p>	<p>In-depth research work aimed at acquiring full knowledge and presentation 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 hypothesis. Detailed treatment of methods of collecting relevant research data and the format for presenting research results (from designing the table of content to referencing, bibliography and appendix). Data analysis and results presentation in different discipline using appropriate analytical tones. Methods of project/ project report writing. Application of appropriate advanced ICT tools relevant in every discipline for data gathering, analysis and results presentation. Essentials of spread sheet, internet technology and internal search engines. All registered master degree students must attend a solution and internet based interactive workshop to be organized by the school of post graduate studies for practical demonstration and application of the knowledge acquired from the course conducted by selected experts.</p>

<p>Clinical Research Methods</p> <p>PCE 711 2 Units</p>	<p>Advanced, and clinical-focused lectures in observational studies including case-control and cohort studies (including nested study designs: nested case-control and case-cohort); randomized controlled trials; measures of association and measures of impact; measures of validity and reliability (sensitivity, specificity, positive and negative predictive values of screening tests; Kappa Statistic); biases in clinical epidemiologic studies (selection, information and confounding bias); effect modification; and analysis of clinical epidemiological research.</p>
<p>Statistical Methods in Epidemiology</p> <p>PEP 732 2 Units</p>	<p>Advanced statistics: linear regression, model assumption and checking, regression diagnostics; logistic regression and likelihood ratio test; Poisson regression; and survival analysis (life tables, Kaplan-Meier analysis and Cox regression models).</p>
<p>Data Management for Clinical Research</p> <p>PCE 724 2 Units</p>	<p>Research data planning, collection, storage and dissemination, best-practice guidelines and hands-on demonstrations & exercises in covering important concepts related to research data collection and management, with a primary focus on data management for patient-centered (clinical) research.</p>
<p>Evidence Synthesis: systematic reviews and meta-analysis</p> <p>PCE 736 2 Units</p>	<p>Introduction to the fundamentals of systematic reviews and meta-analysis: introductory principles of meta-analysis; protocol development; search strategies; data abstraction methods; quality assessment; meta-analytic methods; and applications of meta-analysis</p>
<p>Epidemiology of Infectious Diseases</p> <p>PEP 712 2 Units</p>	<p>Definitions; principles of the transmission of the infectious agents of public health importance (viruses, bacteria, rickettsia, mycoplasma, fungi, and protozoan and helminth parasites); the role of vectors, reservoirs, and environmental factors; pathogen and host characteristics that determine the spectrum of infection and disease; endemicity and outbreaks of selected infectious diseases; principles of disease control and surveillance.</p>
<p>Epidemiology of Non-Communicable Diseases</p> <p>PEP 714 2 Units</p>	<p>Descriptive epidemiology and sources of incidence and mortality data; biological basis of non-communicable diseases such as hypertension, heart disease, diabetes, obesity, renal disease, cancer and mental illness; methodological issues relevant to non-communicable disease research; causal inference; major environmental risk factors; genetic susceptibility.</p>
<p>Foundations of Pharmaco-epidemiology</p> <p>PCE 762 2 Units</p>	<p>Application of epidemiological methods to study the uses and effects of pharmaceutical products in human populations, examine studies of disease natural history, drug effects and studies of drug utilization, development up to and including Phase 3 clinical trials for approval, the regulatory process, and the use and design of Risk Evaluation and Management (REMS) programs to mitigate known risks; identification of new risks for marketed products, including both active and passive surveillance, data mining; databases and study designs used in pharmaco-epidemiology; and decision making process in pharmaco-epidemiology.</p>

<p>Research Protocol Development PCE 742 2 Units</p>	<p>Students will be taught how to develop a research protocol. Students will be expected to present their research work in progress during classes.</p>
<p>Clinical Epidemiology Seminars PCE 752 2 Units</p>	<p>Critical review of literature topics of importance in clinical epidemiology: each student will critically appraise a journal article of relevance in the field, make an oral presentation of the appraisal (under the following headings: Introduction, Methods, Findings, Discussion, Conclusion, Recommendation and References) and submit a written report of the appraisal.</p>
<p>Introduction to Environmental Health and safety POE 713 2 Units</p>	<p>Definition and classification of environment; Environmental hazards; relationship between health and environment; Preventive environmental health measures; environmental health components and safety</p>
<p>Methods in Analytical Epidemiology PEP 722 2 Units</p>	<p>Analytical epidemiology: observational studies including cross sectional, case-control and cohort studies, randomized controlled trials and community trials, measures of association and impact; biases in epidemiologic studies (selection, information and confounding bias), effect modification.</p>
<p>Managing toxins and special wastes POE 736 Unit 2</p>	<p>Topics include: Definition of toxins; Pesticides; Herbicides, metals, radiation, dioxins; Food toxicology; Food additives; Solvents; Plant and animal toxins; Ecotoxicology; Air pollutants; Concepts in Occupational toxicology; Clinical Toxicology; Types of wastes; and Hospital waste management</p>
<p>Introduction to Health Systems PHS 711 2 Units</p>	<p>Definitions, importance, political economy of African Health systems, understanding health systems frameworks and using them to analyze health systems as a basis for strengthening the systems, Health system development case studies, Health systems governance, strengthening health systems towards PHC renewal and UHC, People, health systems and health system development, Intervening in health systems, Health systems complexity and change, Health Sector Reforms.</p>
<p>Health Outcomes Research PEP 752 2 Unit</p>	<p>Measurement of quality in health care, and examining the validity of alternative measures, impact evaluation, observational and quasi-experimental research studies in terms of health outcomes, addressing the advantages and limitations of alternative designs.</p>
<p>Introduction to Genetic Epidemiology PCE 771 2 Unit</p>	<p>Basic genetics, tools used by geneticists and genetic epidemiologists, integration of genetic data into traditional epidemiologic study designs, practical application.</p>

<p>Bioethics & Law BETH 732 2 Unit</p>	<p>Basic principles of bioethics and health care law, and their application in clinical and policy settings, defining life (including human reproduction, surrogacy and fetal-maternal conflict), euthanasia and the prolonging of life including the right-to-die, medical futility, and advance directives; termination of treatment for children; genetic screening; hospital ethics committees; access to care and the politics of health care in the 90s; and ethics in the business of medicine.</p>
<p>Survey Data Analysis PEP 734 2 Units</p>	<p>Sampling methods for population surveys, principle of weighting in surveys, preparation of survey data for analysis, and statistical analysis of survey data using SPSS or Stata statistical software, practical session (students are expected to analyze a portion of the Nigerian demographic and health survey (DHS) data set).</p>
<p>Project Report PCE 790 & Seminar PCE 791</p>	<p>In the first semester, students must complete two online courses offered in the Collaborative Institutional Training Initiative (CITI) programme: 1) The Biomedical track of Human Subjects Research course and 2) The basic course in Responsible Conduct of Research, and submit certificates before developing proposal in second semester for a research guided by one or two appointed supervisors. The output, a project report should will be presented at a seminar, and defended before an external supervisor.</p>

3. Health Systems, Policy and Management.

MSc. Public Health – Health Systems, Policy and Management.

STRESS AREAS

0 Core Public Health Courses

1 = Understanding health systems

“2” = Health policies and plans

“3” = Building blocks for health systems

“4” = Health economics for health systems analysis

“5” = Health policy, management and systems reviews

“9” = Project Report

COURSE OUTLINE

Course Code	Course Title	Units
1st Semester	CORE COURSES	
PEP 701	Basic Epidemiology	2
PEP 703	Basic Medical Statistics	2
PGC 601	Research Methodology and Application of ICT in Research	3
PHS 711	Introduction to Health Systems	2
PHS 721	Health Policy, Process and Power	2
PHS 743	Introductory Health Economics	2
PHS 751	Global Health	2
2nd Semester		
PHS 722	Health Planning and management	2
PHS 734	Managing Human resources for health	2
PHS 712	Health Policy and Systems Research and Analysis	2
PHS 732	Health care financing and Budgeting	2
PPC 752	Qualitative Research Methods	2
3rd Semester		
PHS 738	Health Management Information System	2
PHS 752	Health policy and systems reviews	2
PHS 754	Health Law	2
PHS 790	Project Report	6
PHS 791	Master’s Project Report presentation	3
	Total (Core)	27
	ELECTIVES (at least 4 credits)	
PPC 723	Primary Health Care	2
PPC 713	Communication and Health	2
PPC 721	Social Medicine	2
PEP 734	Survey Data Analysis	2

	Grand total	40
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COURSE DESCRIPTION

<p>Basic Epidemiology</p> <p>PEP 701 2 Units</p>	<p>Definitions of epidemiology; measures of disease frequency; measures of association and impact; epidemiologic study designs, both experimental and non-experimental; basic principles of epidemiologic research design; types of research questions, analysis of epidemiologic studies.</p>
<p>Basic Medical Statistics</p> <p>PEP 703 2 Units</p>	<p>Theory and application of statistical techniques that commonly are used in medical research: data types, measures of central tendency and variability, probability distributions, significance testing, confidence intervals, sample size calculation and power, measures of association, statistical tests, non-parametric analyses, analysis of variance and the basics of linear regression, use of SPSS.</p>
<p>Research Methodology and Application of ICT in Research</p> <p>PGC 601 3 Units</p>	<p>In-depth research work aimed at acquiring full knowledge and presentation 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 hypothesis. Detailed treatment of methods of collecting relevant research data and the format for presenting research results (from designing the table of content to referencing, bibliography and appendix). Data analysis and results presentation in different discipline using appropriate analytical tones. Methods of project/ project report writing. Application of appropriate advanced ICT tools relevant in every discipline for data gathering, analysis and results presentation. Essentials of spread sheet, internet technology and internal search engines. All registered master degree students must attend a solution and internet based interactive workshop to be organized by the school of post graduate studies for practical demonstration and application of the knowledge acquired from the course conducted by selected experts.</p>
<p>Introduction to Health Systems</p> <p>PHS 711 2 Units</p>	<p>Definitions, importance, political economy of African Health systems, Understanding health systems frameworks and using them to analyze health systems as a basis for strengthening the systems, Health system development case studies, Health systems governance, Strengthening health systems towards PHC renewal and UHC, People, health systems and health system development, Intervening in health systems, Health systems complexity and change, Health Sector Reforms.</p>

<p>Health Policy, process and power PHS 721 2 Units</p>	<p>Definitions of policy and health policy, Different Policies in Nigeria, theoretical frameworks and approaches in understanding policy and implementation processes, health policy analysis tools-The Health policy analysis triangle, Actors who make policy, Contextual factors that affect policy, The policy content, process, and implementation, Stakeholder Analysis and actor management, Power and the policy process, Drafting a health Policy document, Getting research and evidence into policy and practice.</p>
<p>Introductory Health Economics PHS 743 2 Units</p>	<p>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 use of economic analysis for decision making and resource allocation, economic analysis of alternative methods of delivering and financing health care equity analysis.</p>
<p>Global Health PHS 751 2 Unit</p>	<p>Origins and development of global health, Global Disease Burden, Trade and Liberalisation, Global Health regulations and legislation, concepts in global health policy and practice, WHO constitution, structure scope & Functions, WHO milestones, International and voluntary health organisations and their roles, Port health services, Disaster management in public health; Environmental Health in Emergencies, Environmental health laws in Nigeria and International; International Labour Organization, Occupational health laws in ILO and Nigeria.</p>
<p>Health Planning and management PHS 722 2 Units</p>	<p>Definitions, management theories and principles, planning, implementation and evaluation, theories and techniques, organizational structure, design, goals, objectives and functions, management techniques and concepts, programming, quality assurance, monitoring and evaluation concepts and methods, planning and management at PHC level.</p>
<p>Managing Human Resources for Health PHS 734 2 Units</p>	<p>Key Components of Human Resources Development; Human Resources and Health Sector; Human Resource Management and the Policy Context; The manager, leadership, teamwork, motivation, conflict management, staff Recruitment, Supervision, Performance management and evaluation, Challenges in human resource performance and evaluation</p>
<p>Health Management Information System (HMIS) PHS 738 2 Units</p>	<p>Basic definitions of HMIS, introduction of concepts; HMIS sub-system and components; functional HMIS, policies, legal and regulatory issues, use of standards, costs and processes for the production of health information such as collection of data, collation, analysis, dissemination, and use), HMIS infrastructure, communication, transfer, analysis, management, storage, coordination, leadership, M and E, and indicators, Community Based HMIS, Decision and Policy making using HIS, Basic principles of GIS and mapping.</p>
<p>Health Policy and Systems Research and Analysis PHS 712 2 Units</p>	<p>Definitions, Multiple perspectives for health policy and systems research (HPSR), Doing health policy and systems research, Real life issues, Flexible and fixed research strategies for health policy and systems research, Case study as a design for HPSR, HPSR and access, governance (community accountability), human resources (motivation), Evaluation for HPSR.</p>

<p>Health care financing & Budgeting</p> <p>PHS 732 2 Units</p>	<p>Goals of good healthcare financing strategies, functions, policies and plans, options in different settings, Performance Based Payments, Universal health coverage, Evolution of the budget process, theory and practice of budgeting, types, roles and demands of the budget, budgets as instrument of national, socio-economic policy formulation and implementation, Sources of revenue and purposes of governmental expenditures, budgeting process and cycle, politics of resource allocation with emphasis on revenue sharing, programme budgeting, The Medium-term sector strategy (MTSS) and medium-term expenditure framework (MTEF) for health resource allocation and financing.</p>
<p>Health Policy and Systems Review</p> <p>PHS 752 2 Units</p>	<p>Critical review of literature topics of importance in health policy and systems: each student will critically appraise a journal article of relevance in the field, make an oral presentation of the appraisal (under the following headings: Introduction, Methods, Findings, Discussion, Conclusion, Recommendation and References) and submit a written report of the appraisal.</p>
<p>Primary Health Care</p> <p>PPC 723 2 Units</p>	<p>The basic health services Scheme (BHSS), The Alma Ata Declaration, Principles & Components of PHC, Old and New PHC Implementation & Organizational Structure in Nigeria, PHC Planning and Management, Community diagnosis and Mobilization for Action, PHC related Global Health Programmes, Bamako initiative, Monitoring and Evaluation of PHC activities, Developing PHC programmes, Medical Officer of Health.</p>
<p>Communication in Health</p> <p>PPC 713 2 Units</p>	<p>Communication theories, principles and process, Role and use of communication and media in the promotion of health care, Strategies of mass communication, organisational and inter-personal communication, Application of communication processes to health care issues.</p>
<p>Social Medicine</p> <p>PPC 721 2 Units</p>	<p>History and health, Concepts of culture, society; social stratification and health outcomes; Medical anthropology in public health; Sociological approaches to health, Theories of diseases causation & effect on perception of health and illness, Illness behaviour and legitimization, Modern and traditional health systems Social Determinants of Health, Social and psychological aspects of health in work place environments, Social welfare services In Nigeria.</p>
<p>Health Law</p> <p>PHS 754 2 Units</p>	<p>Analysis of legal and regulatory mandates that guide health policy, systems and management including the Nigerian Constitution, the National Health Act, National Health Insurance Scheme Act, Medical and Dental Practitioners' and related Acts, relevant implementation guidelines, etc.</p>
<p>Survey Data Analysis</p> <p>PEP 734 2 Units</p>	<p>Sampling methods for population surveys, principle of weighting in surveys, preparation of survey data for analysis, and statistical analysis of survey data using SPSS or Stata statistical software, practical session (students are expected to analyze a portion of the Nigerian demographic and health survey (DHS) data set).</p>
<p>Qualitative Research Methods</p> <p>PPC 752 2 Units</p>	<p>Principles of social research, Theories for Qualitative Research, Qualitative research methods, techniques, analysis and reporting.</p>

<p>Project Report</p> <p>PHS 790 & PHS 791</p>	<p>In the first semester, students must complete two online courses offered in the Collaborative Institutional Training Initiative (CITI) programme: 1) The Biomedical track of Human Subjects Research course and 2) The basic course in Responsible Conduct of Research, and submit certificates before developing a proposal in second semester for a research guided by one or two appointed supervisors. The output, a project report will be presented at a seminar, and defended before an external supervisor.</p>
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DOCTORAL PROGRAMMES

DrPH & PhD Public Health – Health Systems, Policy and Management.

STRESS AREAS

0 Core Public Health Courses

1 = Health Systems

“2” = Health policies

“3” = Health Planning and management

“9” = Project

COURSE OUTLINE (First Year)

Course Code	Course Title	Units
1st Semester		
PGC 701	Synopsis and Grant Writing	3
PHS 811	Health Systems Policy, Process and Power	3
2nd Semester		
PHS 822	Health Policy and Systems Research and Analysis	3
PHS 832	Health Planning, Management and Financing	3

COURSE DESCRIPTION (DrPH & PhD)

<p>Synopsis and Grant Writing PGC 701 3 Units</p>	<p>Identification of types and nature of grants and grant writing; mining of grants application call on the internet. Determining appropriate strategy for each grant application, study of various grants application structures and contents and writing of concepts notes, detailed project description, budgeting and budget defense. Study of sample grant writings in various forms and writings of mock research and other grants. Identification of University of Nigeria synopsis, structures and requirements (Introduction, Methodology and Results). Determining the content of each sub unit of</p>
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	<p>the synopsis. Steps in writing of synopsis from the thesis /thesis document, structural and language issues. Common errors in synopsis writing and strategy in avoiding them. The roles of students and the supervisor in the production of the synopsis. Writing of mock synopsis. All registered DRPH students must attend a solution based interactive workshop to be organised by the school of post graduate studies for a practical demonstration and application of the knowledge acquired from the course conducted by selected experts.</p>
<p>Health Systems Policy, Process and Power PHS 811 3 Units</p>	<p>Political economy of African Health systems, Health systems thinking; Health Systems strengthening, Health systems governance, Intervening in health systems, Health systems complexity and change, Health Sector Reforms; Stakeholder Analysis and actor management, Power and the policy process</p>
<p>Health Policy and Systems Research and Analysis PHS 822 3 Units</p>	<p>Multiple perspectives for health policy and systems research (HPSR), Doing health policy and systems research, Flexible and fixed research strategies for health policy and systems research, Evaluation for HPSR; Knowledge translation; Critical review of literature topics of importance in health policy and systems</p>
<p>Health Planning, Management and Financing PHS 832 3 Units</p>	<p>Planning, implementation and evaluation, theories and techniques of management, Health programming, quality assurance in health, monitoring and evaluation of health programmes, Strategic Health development plans; Healthcare financing strategies and functions, Performance Based financing; programme budgeting and resource allocation including the Medium-term sector strategy (MTSS) and medium-term expenditure framework (MTEF) for health resource allocation and financing</p>

4. Occupational and environmental health.

MSc. Public Health – Occupational and environmental health

STRESS AREAS

“0” = Core Public Health Courses

“1” = Foundation courses in Occupational and Environmental Health

“2” = Methods and Analytics

“3” = Application of Occupational and Environmental Health Concepts

“5” = Global health

“9” = Project Report

COURSE OUTLINE

Course Code	Course title	Units
1st Semester	CORE	
PEP 701	Basic Epidemiology	2
PEP 703	Basic Medical Statistics	2
PGC 601	Research Methodology and Application of ICT in Research	3
POE 711	Introduction to Occupational Health and Safety	2
POE 713	Introduction to Environmental Health and safety	2
PPC 721	Social Medicine	2
PHS 751	Global Health	2
2nd Semester		
POE 722	Hazard Evaluation	2
POE 732	Climate and Human health	2
POE736	Managing toxins and special wastes	2
POE 724	Environmental Audit Assessment and Management	2
3rd Semester		
POE 738	Safety management principles and practice	2
POE 734	Seminar on Occupational and Environmental Health	2
PHS 754	Health Law	2
POE 790	Project Report	6
POE 791	Project Report presentation	3
	Total (Core)	38
	ELECTIVES (at least 4 credits)	
PPC723	Primary Health care	2
PEP711	Epidemiology of Infectious Diseases	2
PEP713	Epidemiology of Non-Communicable Diseases	2
PHS713	Introductory Health Economics	2
PPC 724	Health Education	2
	Grand Total	42

COURSE DESCRIPTION

<p>Basic Epidemiology</p> <p>PEP 701 2 Unit</p>	<p>Definitions of epidemiology; measures of disease frequency; measures of association and impact; epidemiologic study designs, both experimental and non-experimental; basic principles of epidemiologic research design; types of research questions, analysis of epidemiologic studies.</p>
<p>Basic Medical Statistics</p> <p>PEP 703 2 Units</p>	<p>Theory and application of statistical techniques that commonly are used in medical research: data types, measures of central tendency and variability, probability distributions, significance testing, confidence intervals, sample size calculation and power, measures of association, statistical tests, non-parametric analyses, analysis of variance and the basics of linear regression, use of SPSS.</p>
<p>Research Methodology and Application of ICT in Research</p> <p>PGC 601 3 Units</p>	<p>In-depth research work aimed at acquiring full knowledge and presentation 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 hypothesis. Detailed treatment of methods of collecting relevant research data and the format for presenting research results (from designing the table of content to referencing, bibliography and appendix). Data analysis and results presentation in different discipline using appropriate analytical tones. Methods of project/ project report writing. Application of appropriate advanced ICT tools relevant in every discipline for data gathering, analysis and results presentation. Essentials of spread sheet, internet technology and internal search engines. All registered master degree students must attend a solution and internet based interactive workshop to be organized by the school of post graduate studies for practical demonstration and application of the knowledge acquired from the course conducted by selected experts.</p>
<p>Introduction to Occupational Health and Safety</p> <p>POE 711 2 Units</p>	<p>Organization and functions of Occupational health, The work environment), Principles of control/prevention of occupational diseases and hazards, Regulation and control of Occupational health problems, Occupational legislation, factory laws, labour laws,Occupational risk assessment,Risk management goals, process and toolkit, Application of concept of epidemiology, epidemics and management of epidemic in the workplace.</p>
<p>Introduction to Environmental Health and safety</p> <p>POE 713 2 Units</p>	<p>Definition and classification of environment; Environmental hazards; relationship between health and environment; Preventive environmental health measures; environmental health components and safety</p>

<p>Hazard Evaluation</p> <p>POE 722 2 Units</p>	<p>Anticipation, recognition, evaluation, and control of workplace hazards in order to maintain a healthy and safe work environment, The Concept of Ergonomics, and ergonomic hazards and management, Evaluation and control of hazards, The Guidelines for hazard evaluation procedures, Hazard Evaluation Techniques.</p>
<p>Climate and Human health</p> <p>POE 712 2 Units</p>	<p>Introduction to concepts, Vulnerability of population to climate change, Methods to assessing Health Impact, Overview of key impacts related to climate change (extreme weather events, disasters, vector-borne infectious diseases, food security, water, urban health quality, social disruption), Adaptation to climate change and variability (Measures to enhance adaptive capacity, Nigerian Situation.</p>
<p>Managing toxins and special wastes</p> <p>POE 736 2 Units</p>	<p>Definition of toxins, Pesticides, Herbicides, metals, radiation, dioxins, Food toxicology, Food additives, Solvents, Plant and animal toxins, Ecotoxicology, Air pollutants, Concepts in Occupational toxicology, Clinical Toxicology, Types of wastes, Hospital waste management,</p>
<p>Environmental Audit Assessment and Management</p> <p>POE 724 2 Units</p>	<p>The concept of environmental Audit, Audit assessment, Environmental impact assessment. Environmental impact assessment act of Nigeria. Environmental impact assessment practice in Nigeria, Recent environmental challenges e.g. oil spill management, clean water act.</p>
<p>Safety management principles and practice</p> <p>POE 738 2 Units</p>	<p>Historical synopsis, Safety as a science and an art, The philosophy of safety, Hazard identification, Incident investigations and reporting, Safety reporting, Basic safety training, safety propagation, Compiling basic safety system standards and criteria, Safety processes, Basic risk analysis, Basic management reporting, Basic safety programme development and coordination.</p>
<p>Global Health</p> <p>PHS 751 2 Units</p>	<p>Origins and development of global health, Global Disease Burden, Trade and Liberalisation, Global Health regulations and legislation, concepts in global health policy and practice, WHO constitution, structure scope & Functions, WHO milestones, International and voluntary health organisations and their roles, Port health services, Disaster management in public health; Environmental Health in Emergencies, Environmental health laws in Nigeria and International; International Labour Organization, Occupational health laws in ILO and Nigeria.</p>
<p>Social Medicine</p> <p>PPC 721 2 Units</p>	<p>History and health, Concepts of culture, society; social stratification and health outcomes; Medical anthropology in public health; Sociological approaches to health, Theories of diseases causation & effect on perception of health and illness, Illness behaviour and legitimization, Modern and traditional health systems Social Determinants of Health, Social and psychological aspects of health in work place environments, Social welfare services In Nigeria</p>
<p>Occupational and Environmental Health Reviews</p>	<p>Critical review of literature topics of importance in occupational and environmental health: each student will critically appraise a journal article of relevance in the field, make an oral presentation of the appraisal (under the following headings: Introduction, Methods, Findings, Discussion,</p>

<p>POE 734 2 Units</p>	<p>Conclusion, Recommendation and References) and submit a written report of the appraisal.</p>
<p>Introduction to Health Systems PHS 711 2 Units</p>	<p>Definitions, importance, political economy of African Health systems, understanding health systems frameworks and using them to analyze health systems as a basis for strengthening the systems, Health system development case studies, Health systems governance, strengthening health systems towards PHC renewal and UHC, People, health systems and health system development, Intervening in health systems, Health systems complexity and change, Health Sector Reforms.</p>
<p>Primary Health care PPC 723 2 Units</p>	<p>The basic health services Scheme (BHSS), The Alma Ata Declaration, Principles & Components of PHC, Old and New PHC Implementation & Organizational Structure in Nigeria, PHC Planning and Management, Community diagnosis and Mobilization for Action, PHC related Global Health Programmes, Bamako initiative, Monitoring and Evaluation of PHC activities, Developing PHC programmes, Medical Officer of Health.</p>
<p>Health Law PHS 754 2 Units</p>	<p>Analysis of legal and regulatory mandates that guide health policy, systems and management including the Nigerian Constitution, the National Health Act, National Health Insurance Scheme Act, Medical and Dental Practitioners' and related Acts, relevant implementation guidelines, etc.</p>
<p>Epidemiology of Infectious Diseases PEP 711 2 Units</p>	<p>Definitions; principles of the transmission of the infectious agents of public health importance (viruses, bacteria, rickettsia, mycoplasma, fungi, and protozoan and helminth parasites); the role of vectors, reservoirs, and environmental factors; pathogen and host characteristics that determine the spectrum of infection and disease; endemicity and outbreaks of selected infectious diseases; principles of disease control and surveillance.</p>
<p>Epidemiology of Non-Communicable Diseases PEP 713 2 Units</p>	<p>Descriptive epidemiology and sources of incidence and mortality data; biological basis of non-communicable diseases such as hypertension, heart disease, diabetes, obesity, renal disease, cancer and mental illness; methodological issues relevant to non-communicable disease research; causal inference; major environmental risk factors; genetic susceptibility</p>
<p>Introductory Health Economics PHS 713 2 Units</p>	<p>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 use of economic analysis for decision making and resource allocation, economic analysis of alternative methods of delivering and financing health care, equity analysis.</p>
<p>Health Education PPC 724 2 Units</p>	<p>Definitions, concepts, principles and objectives of health education, Education theories and the learning process, Identification of learning needs, Education and training methodology including the IEC training scheme & curriculum development, Planning of health education for individuals, groups and communities, Levels of health education.</p>

<p>Project Report POE 790 &</p> <p>Seminar POE 791</p>	<p>In the first semester, students must complete two online courses offered in the Collaborative Institutional Training Initiative (CITI) programme: 1) The Biomedical track of Human Subjects Research course and 2) The basic course in Responsible Conduct of Research, and submit certificates before developing proposal in second semester for a research guided by one or two appointed supervisors. The output, a project report should will be presented at a seminar, and defended before an external supervisor.</p>
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DOCTORAL PROGRAMMES

DrPH & PhD Public Health – Occupational and Environmental Health

STRESS AREAS

“0” = Core Public Health Courses

“1” = Occupational Health

“2” = Environmental Health

“3” = Application of Occupational and Environmental Health Concepts

“9” = Project Report “9” = Project

COURSE OUTLINE (First Year)

Course Code	Course Title	Units
1st Semester		
PGC 701	Synopsis and Grant Writing	3
POE 811	Occupational Health	3
2nd Semester		
POE 822	Environmental Health	3
POE 832	Safety Management	3

COURSE DESCRIPTION (DrPH & PhD)

<p>Synopsis and Grant Writing PGC 701 3 Units</p>	<p>Identification of types and nature of grants and grant writing; mining of grants application call on the internet. Determining appropriate strategy for each grant application, study of various grants application structures and contents and writing of concepts notes, detailed project description, budgeting and budget defense. Study of sample grant writings in various forms and writings of mock research and other grants. Identification of University of Nigeria synopsis, structures and requirements (Introduction, Methodology and Results). Determining the content of each sub unit of the synopsis. Steps in writing of synopsis from the thesis /thesis document, structural and language issues. Common errors in synopsis writing and strategy in avoiding them. The roles of students and the supervisor in the production of the synopsis. Writing of mock synopsis. All registered DRPH students must attend a solution based interactive workshop to be organised by the school of post graduate studies for a practical demonstration and application of the knowledge acquired from the course conducted by selected experts.</p>
<p>Occupational Health POE 811\ 3 Units</p>	<p>Occupational health Laws in ILO and Nigeria; Occupational Hazards and Control; Occupational epidemiology & Workplace Epidemic investigation; Occupational Psychology: Communication in workplaces; work-related stress and burnout; Occupational toxicology: Definition of toxins, Concepts in Occupational toxicology, Pesticides, Herbicides, metals, radiation, dioxins, Air pollutants, Managing toxins & Special wastes; Clinical Toxicology, Impacts of occupation on environment and health</p>
<p>Environmental Health POE 822 3 Units</p>	<p>Environmental health laws in Nigeria. Environmental hazards/pollutants, Environmental Audit Assessment & Management; Environmental Health in Emergencies, Environmental impact assessment, oil spill management, Methods to assessing Health Impact. Vulnerability of population to climate change, Overview of key impacts related to climate change, Adaptation to climate change and variability. Waste management and clean water act.</p>
<p>Safety Management POE 832 3 Units</p>	<p>Principles & Practice of workplace safety, Safety as a science and an art, The philosophy of safety, Hazard identification, Incident investigations and reporting, Safety reporting, Basic safety training, safety propagation, Compiling basic safety system standards and criteria, Safety processes, risk analysis, Basic management reporting, Basic safety programme development and coordination Principles & applications of ergonomics</p>

5. Health Promotion and Communication

MSc. Public Health – Health Promotion and Communication

STRESS AREAS

- “0” = Core Public Health Courses
- “1” = Health promotion and communication theories
- “2” = Primary Health Care
- “3” = Applied health promotion and communication
- “4” = Health Promotion and communication reviews
- “5” = Qualitative Research Methods
- “6” = Health, Laws and Ethics
- “9” = Project Report

COURSE OUTLINE

Course Code	Course Title	Units
1st Semester	CORE	
PEP 701	Basic Epidemiology	2
PEP 703	Basic Medical Statistics	2
PGC 601	Research Methodology and application of ICT in Research	3
PPC 711	Health Promotion Theory, Methods and Approaches	2
PPC 713	Communication and Health	2
PPC 721	Social Medicine	2
PPC 723	Primary Health Care	2
PHS 751	Global Health	2
2nd Semester		
PPC 724	Health Education	2
PPC 732	Nutrition and Health	2
PPC 734	Family Health	2
PPC 752	Qualitative Research Methods	2
3rd Semester		
PHS 754	Health Law	2
PPC 744	Health Promotion Enquiry (Seminar)	2
PPC 790	Masters Project Report	3
PPC 791	Masters Project Report presentation	6
	Total (Core)	38
	ELECTIVES (at least 4 credits)	
POE 713	Introduction to Environmental Health and safety	2
PHS 711	Introduction to Health Systems	2
PEP 711	Epidemiology of Infectious Diseases	2
PEP 713	Epidemiology of Non-Communicable Diseases	2
PHS 743	Introductory Health Economics	2

BET 721	Health Research Ethics and Regulation	
	Grand total	42

COURSE DESCRIPTION

Basic Epidemiology PEP 701 2 Unit	Definitions of epidemiology; measures of disease frequency; measures of association and impact; epidemiologic study designs, both experimental and non-experimental; basic principles of epidemiologic research design; types of research questions, analysis of epidemiologic studies.
Basic Medical Statistics PEP 703 2 Units	Theory and application of statistical techniques that commonly are used in medical research: data types, measures of central tendency and variability, probability distributions, significance testing, confidence intervals, sample size calculation and power, measures of association, statistical tests, non-parametric analyses, analysis of variance and the basics of linear regression, use of SPSS.
Research Methodology and Application of ICT in Research PGC 601 3 Units	This is aimed at introducing the students Research Methods. The topics include: Definition and aims of research; Selection and formulation of research problem and research questions; Research proposal development, Research design and plan; Experimental designs; Sampling and sampling strategy or plan; Data collection methods and techniques; Developing hypotheses; Planning for data analysis and management; Analysis, interpretation and drawing inferences and Report writing.
Health Promotion Theory, methods and approaches PPC 711 2 Unit	Introduction, theory and individual, community and organizational behaviour, Politics, ethics and health, indicators for health, Healthy public policy and its implementation through partnerships, Working with communities, Risk management, perception and communication in health care, Planning a health promotion intervention, Programming, Evidence based health promotion, Developing a programmatic approach to health promotion.
Communication and Health PPC 713 2 Unit	Communication theories, principles and process, Role and use of communication and media in the promotion of health care, Strategies of mass communication, organisational and inter-personal communication, Application of communication processes to health care issues.
Health Education PPC 724 2 Unit	Definitions, concepts, principles and objectives of health education, Education theories and the learning process, Identification of learning needs, Education and training methodology including the IEC training scheme & curriculum development, Planning of health education for individuals, groups and communities, Levels of health education.
Social Medicine PPC 721 2 Unit	History and health, Concepts of culture, society; social stratification and health outcomes; Medical anthropology in public health; Sociological approaches to health, Theories of diseases causation & effect on perception of health and illness, Illness behaviour and legitimization, Modern and traditional health systems Social Determinants of Health, Social and psychological aspects of health in work place environments, Social welfare services in Nigeria.

<p>Primary Health Care</p> <p>PPC 723</p> <p>2 Unit</p>	<p>The basic health services Scheme (BHSS), The Alma Ata Declaration, Principles & Components of PHC, Old and New PHC Implementation & Organizational Structure in Nigeria, PHC Planning and Management, Community diagnosis and Mobilization for Action, PHC related Global Health Programmes, Bamako initiative, Monitoring and Evaluation of PHC activities, Developing PHC programmes, Medical Officer of Health.</p>
<p>Nutrition and Health</p> <p>PPC 732</p> <p>2 Unit</p>	<p>Basic nutritional requirements & metabolism, Nutritional problems of public health significance in Nigeria, Nutrition related chronic diseases, Dietary guidelines for common diet related diseases, Quantification and assessment of dietary intake and nutritional status, Organisation of community based nutritional programme, National food & nutrition policy, Current topics in nutritional epidemiology, Maternal and child health nutrition, Developing a Nutrition programme for a target group.</p>
<p>Family Health</p> <p>PPC 734</p> <p>2 Units</p>	<p>Maternal and child health services; objectives, components & organisation, Family planning & methods, Compulsory immunization programmes, Child survival strategies, School health services, Care of the handicapped and aged, Current issues in women & children’s health in developing countries, Sexual health/control of reproductive tract diseases and sexually transmitted infections, Maternal and Child Health Policies, Evaluation of family health programmes.</p>
<p>Global Health</p> <p>PHS 751</p> <p>2 Units</p>	<p>Origins and development of global health, Global Disease Burden, Trade and Liberalisation, Global Health regulations and legislation, concepts in global health policy and practice, WHO constitution, structure scope & Functions, WHO milestones, International and voluntary health organisations and their roles, Port health services, Disaster management in public health; Environmental Health in Emergencies, Environmental health laws in Nigeria and International; International Labour Organization, Occupational health laws in ILO and Nigeria.</p>
<p>Qualitative Research Methods</p> <p>PPC 752</p> <p>2 Units</p>	<p>Principles of social research, Theories for Qualitative Research, Qualitative research methods, techniques, analysis and reporting.</p>
<p>Health Promotion Enquiry (Seminar)</p> <p>PPC 754</p> <p>2 Unit</p>	<p>Critical review of literature topics of importance in health promotion: each student will critically appraise a journal article of relevance in the field, make an oral presentation of the appraisal (under the following headings: Introduction, Methods, Findings, Discussion, Conclusion, Recommendation and References) and submit a written report of the appraisal.</p>
<p>Health Law</p> <p>PHS 754</p> <p>2 Unit</p>	<p>Analysis of legal and regulatory mandates that guide health policy, systems and management including the Nigerian Constitution, the National Health Act, National Health Insurance Scheme Act, Medical and Dental Practitioners’ and related Acts, relevant implementation guidelines, etc.</p>
<p>Introduction to Health Systems</p> <p>PHS 711</p>	<p>Definitions, importance, political economy of African Health systems, understanding health systems frameworks and using them to analyze health systems as a basis for strengthening the systems, Health system development case studies, Health systems governance, strengthening</p>

<p>2 Unit</p>	<p>health systems towards PHC renewal and UHC, People, health systems and health system development, Intervening in health systems, Health systems complexity and change, Health Sector Reforms.</p>
<p>Health Policy, Process and Power PHS 721 2 Units</p>	<p>Definitions of policy and health policy, Different Policies in Nigeria, theoretical frameworks and approaches in understanding policy and implementation processes, health policy analysis tools-The Health policy analysis triangle, Actors who make policy, Contextual factors that affect policy, The policy content, process, and implementation, Stakeholder Analysis and actor management, Power and the policy process, Drafting a health Policy document, Getting research and evidence into policy and practice.</p>
<p>Epidemiology of Infectious Diseases PEP 711 2 Units</p>	<p>Definitions; principles of the transmission of the infectious agents of public health importance (viruses, bacteria, rickettsia, mycoplasma, fungi, and protozoan and helminth parasites); the role of vectors, reservoirs, and environmental factors; pathogen and host characteristics that determine the spectrum of infection and disease; endemicity and outbreaks of selected infectious diseases; principles of disease control and surveillance.</p>
<p>Epidemiology of Non-Communicable Diseases PEP 713 2 Units</p>	<p>Descriptive epidemiology and sources of incidence and mortality data; biological basis of non-communicable diseases such as hypertension, heart disease, diabetes, obesity, renal disease, cancer and mental illness; methodological issues relevant to non-communicable disease research; causal inference; major environmental risk factors; genetic susceptibility</p>
<p>Introductory Health Economics PHS 743 2 Units</p>	<p>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 use of economic analysis for decision making and resource allocation, economic analysis of alternative methods of delivering and financing health care, equity analysis.</p>
<p>Health Research Ethics and Regulation BET 721 3 Units</p>	<p>Ethical regulation of human subject research, informed consent in research, what makes research ethical, responsible conduct of research, Regulatory frameworks and networks in human subject research including the Research ethics regulations in Nigeria, the role of IRB in research regulation, DSMB, Research integrity as well as ethical issues in Animal research.</p>
<p>Project Report PPC 790 & Seminar PPC 791</p>	<p>In the first semester, students must complete two online courses offered in the Collaborative Institutional Training Initiative (CITI) programme: 1) The Biomedical track of Human Subjects Research course and 2) The basic course in Responsible Conduct of Research, and submit certificates before developing proposal in second semester for a research guided by one or two appointed supervisors. The output, a project report should will be presented at a seminar, and defended before an external supervisor.</p>

DOCTORAL PROGRAMMES

DrPH & PhD Public Health – Health promotion and Communication

0” = Core Public Health Courses

“1” = Applied health promotion and Principles

“2” = Applied communication reviews

“9” = Project Report

COURSE OUTLINE (First Year)

Course Code	Course Title	Units
1st Semester		
PGC 701	Synopsis and Grant Writing	3
PPC 801	Advances in Public Health Education	3
2nd Semester		
PPC 812	Advanced Health Promotion, Principles and Practice	3
PPC 822	Communication in Health programmes	3

Course Description

Synopsis and Grant Writing PGC 701 3 Units	Identification of types and nature of grants and grant writing; mining of grants application call on the internet. Determining appropriate strategy for each grant application, study of various grants application structures and contents and writing of concepts notes, detailed project description, budgeting and budget defense. Study of sample grant writings in various forms and writings of mock research and other grants. Identification of University of Nigeria synopsis, structures and requirements (Introduction, Methodology and Results). Determining the content of each sub unit of the synopsis. Steps in writing of synopsis from the thesis /thesis document, structural and language issues. Common errors in synopsis writing and strategy in avoiding them. The roles of students and the supervisor in the production of the synopsis. Writing of mock synopsis. All registered DRPH students must attend a solution based interactive workshop to be organised by the school of post graduate studies for a practical demonstration and application of the knowledge acquired from the course conducted by selected experts.
Advanced Health Promotion: Principles and Practice PPC 801	Developing a programmatic approach to health promotion, Motivational interviewing in health promotion, Peer education, theatre, mass media and media advocacy in health promotion, Social marketing, Developing healthy settings, Evaluating health promotion programmes, Transfer and scale up of health promotion interventions.

3 Units	
Communication in Health programmes PPC 812 3 Units	Role and use of communication and media in the promotion of health care, Strategies of mass communication, organisational and inter-personal communication, Application of communication processes to health care issues, Internal written communications, External written communications
Advances in Public Health Education PPC 822 3 Units	Education theories and the learning process, Identification of learning needs, Education and training methodology including the IEC training scheme & curriculum development, Planning of health education for individuals, groups and communities, School Health Education, Community mobilization and participation in Primary Health Care.

Bioethics Programme

MSc in Bioethics

STRESS AREAS

- “0” = Foundations in Bioethics
- “1” = Clinical ethics
- “2” = Research ethics and Regulation
- “3” = Bioethics and Law
- “4” = Anthropology
- “5” = Applied Bioethics
- “9” = Dissertation

COURSE OUTLINE

Course Code	Course Title	Units
1st Semester		
CORE COURSES		
BET 701	Foundations in Bioethics 1	2
BET 703	Foundations in Bioethics 2	2
PGC 601	Research Methodology and application of ICT in Research	3
BET 721	Health Research Ethics and Regulation	2
2nd Semester		
BET 702	Foundations in Bioethics 3	2
BET 704	Foundations in Bioethics 4	2
BET 712	Clinical Ethics and Practicum	2
PHS 732	Health care financing and Budgeting	2
BET 722	International Health Research Ethics	2
3rd Semester		
BET 714	Hospice and Palliative Care	2
BET 732	Bioethics & Law	2
BET 752	Family, Violence and Child Abuse	2
BET 754	Health and Social Inequality	2
BET 756	Public Health Ethics	2
BET 790	Dissertation	6
BET 791	Master's Dissertation presentation	3
	Total	38
ELECTIVES (At least 4 credits)		
BET 713	Neuroethics	2
BET 741	Culture, Religion and Ethics	2
BET 753	Introduction to Philosophy for Bioethics	2
BET 755	Principles of Negotiation and Conflict Resolution	2
BET 757	Nursing Perspectives in Bioethics	2
PHS 751	Global Health	2
BET 758	Environmental Ethics	2

	Total	42
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COURSE DESCRIPTION

<p>Foundations in bioethics I</p> <p>BET 701</p> <p>2 Units</p>	<p>Contemporary methods and theories in Bioethics: theories of ethical reasoning, moral reasoning including the principlist approach, casuistry, feminist bioethics, pragmatist bioethics, narrative ethics and virtue ethics, bioethics and political philosophy,</p>
<p>Foundations in bioethics II</p> <p>BET 702</p> <p>2 Units</p>	<p>Three broad areas of bioethics (Units II – IV): the concept of research including the benefits of doing research with human subjects, Abuses of human subjects of research over time, modern trends in human subject research regulations, regulations of research ethics within and outside Nigeria, The humane use of animals for research, patient-health worker relationship and the art of healing, ethical problems generated in Paediatrics and adolescent health care.</p>
<p>Foundations in bioethics III</p> <p>BET 703</p> <p>2 Units</p>	<p>Health care systems and needs (unit V) including public and individual health, definition, determinants and measurement of disparities in healthcare access, justice in provision of health care (unit VI) including justice and access, resources and service delivery, and reproduction issues in health care (unit VII) including ethical issues in research with embryos, gametes, assisted reproduction, etc.</p>
<p>Foundations in bioethics IV</p> <p>BET 704</p> <p>2 Units</p>	<p>Death and dying (unit VIII) including meaning, types and declaration of death, the dying process, managing death Organ and tissue donation (unit IX) including organ donation, procurement and transplantation, and ethics of genomics research and genomic treatment (unit X) including controversies in the generation, storage and use of new human genetic information.</p>
<p>Research Methodology and Application of ICT in Research</p> <p>PGC 601</p> <p>3 Units</p>	<p>In-depth research work aimed at acquiring full knowledge and presentation 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 hypothesis. Detailed treatment of methods of collecting relevant research data and the format for presenting research results (from designing the table of content to referencing, bibliography and appendix). Data analysis and results presentation in different discipline using appropriate analytical tones. Methods of project/ dissertation writing. Application of appropriate advanced ICT tools relevant in every discipline for data gathering, analysis and results presentation. Essentials of spread sheet, internet technology and internal search engines. All registered master degree students must attend a solution and internet based interactive workshop to be organized by the school</p>

	of post graduate studies for practical demonstration and application of the knowledge acquired from the course conducted by selected experts.
Clinical Ethics and Practicum BET 712 2 Units	All students must complete a 2-credit-hour clinical ethics course comprising two hour a week seminar with its complementary 12-weeks’ core Clinical Ethics Rotation and preceptor meetings. This seminar introduces students to clinical ethical dilemmas with classical cases in bioethics and then the immersion in clinical activities exposes students to clinical cases as they arise in hospital clinical ethics committees and ethics consultation programs (where they exist), and hospital policies covering “do not resuscitate” orders (DNR), advance directives, withdrawal of artificial feeding, organ procurement and transplantation, and medical futility. The students will become familiar with the clinical, psychological, social, professional, and institutional contexts in which ethical problems arise.
Neuroethics BET 713 2 Units	Ethics of Neuroscience: Neuroscience, Bioethics and Neuro-ethics – the basics; Neuro-ethics – Mapping the field within the ...African Context; Neuro-ethics in Animal Use and Care (Research and Clinical practice); and the Ethical issues related to clinical neurosciences. Contemporary developments pertinent to the field of Neuroscience and Neuro-ethics and their impact on humanity
Health Research Ethics and Regulation BET 721 2 Units	Ethical regulation of human subject research, informed consent in research, what makes research ethical, responsible conduct of research, Regulatory frameworks and networks in human subject research including the Research ethics regulations in Nigeria, the role of IRB in research regulation, DSMB, Research integrity as well as ethical issues in Animal research.
Culture, Religion and Ethics BET 741 2 Units	The role of culture and religion in ethical thinking, A comparative analysis of the different ethical frame works of different religions, including African traditional religions and their areas of convergence and divergence.
Introduction to Philosophy for Bioethics BET 753 2 Units	Philosophical foundation of ethical concepts in health and research: philosophy and meaning of life, history of philosophy, Principles of logic, theory of knowledge, Philosophy of medicine including causality, concepts of health and disease, paradigms of medical reasoning, Theory of justice and Equity, Concept of moral behavior, Freedom and constraints, Rights and duties, Hermeneutics and critical thinking.
Principles of Negotiation and Conflict Resolution BET 755 2 Units	Explanations for the origins of human conflict, types of conflict, help students understand a general framework for analyzing and resolving conflict, Conflict escalation and de-escalation. Conflict with ethics committees, Research participants, Communities and Funding agencies.
Nursing Perspectives in Bioethics	Ethical and legal implications of nursing practice and research in contemporary health care settings, ethical issues and nursing implications in care of the aged, critically ill, palliative care, reproductive health nursing, use of social media, and technology in healthcare, new treatment modalities such as assisted

<p>BET 757 2 Units</p>	<p>reproduction, gene therapy etc. Case scenarios shall be presented to elicit the ethical dilemmas and distresses encountered by the nurse in practice. The course also discusses the Principles of ethical decision making and its application in resolving ethical problems at clinical level and macro-level of the health system.</p>
<p>Global Health PHS 751 2 Units</p>	<p>Origins and development of global health, Global Disease Burden, Trade and Liberalisation, Global Health regulations and legislation, concepts in global health policy and practice, WHO constitution, structure scope & Functions, WHO milestones, International and voluntary health organisations and their roles, Port health services, Disaster management in public health; Environmental Health in Emergencies, Environmental health laws in Nigeria and International; International Labour Organization, Occupational health laws in ILO and Nigeria.</p>
<p>Hospice and Palliative Care BET 714 2 Units</p>	<p>Evidence-based palliative care teachings through classroom teaching, discussion groups, brief bedside interactions, audio- video segments and role-playing, contemporary ethical issues arising from end of life care, physiological process of dying and the reactions it elicits from care givers and relations, ethical issues in end of life care, role of controversial interventions like euthanasia and assisted suicide, African philosophical thoughts and the case studies on the dying process within the Nigerian context.</p>
<p>International Health Research Ethics BET 722 2 Units</p>	<p>Key ethical issues in international health research: the historical context of international health research, current international ethics principles, standards, and declarations; issues in informed consent and conflict of interest, sharing of risks and benefits, problems of multiple IRB, intellectual property etc.</p>
<p>Bioethics & Law BET 732 2 Units</p>	<p>Basic principles of bioethics and health care law, and their application in clinical and policy settings, defining life (including human reproduction, surrogacy and fetal-maternal conflict), euthanasia and the prolonging of life including the right-to-die, medical futility, and advance directives; termination of treatment for children; genetic screening; hospital ethics committees; access to care and the politics of health care in the 90s; and ethics in the business of medicine.</p>
<p>Family, Violence and Child Abuse BET 752 2 Units</p>	<p>Family and its role in human development and social interaction, Unusual and disruptive family relationships and abuse and violence, the rights and privileges of the child within the family and mechanism available to ensure that right, Forms of child abuse, spousal abuse, and elder neglect, traditional African mechanism of dealing with violence and abuse and how they have adapted to the changing environment of the modern world.</p>
<p>Health and Social Inequality BET 754 2 Units</p>	<p>Health inequalities and social justice with typical cases drawn from history, anthropology, epidemiology, philosophy, economics, and health services research to demonstrate how inequalities develop and the social milieu that leads to their development, defining, identifying, verifying, and measuring health inequalities.</p>
<p>Public Health Ethics BET 756 2 Units</p>	<p>Theoretical and practical aspects of ethics and public health, principles and values that guide public health, case-based discussion sessions for developing analytical skills necessary for evaluating ethical issues in public health policy and public health prevention, treatment, and research.</p>

<p>Environmental Ethics</p> <p>BET 758</p> <p>2 Units</p>	<p>Environmental ethics, environmental justice and animal rights, environment as a cause of ill health and disease, how to preserve the environment for the use of current and future generations, ethical issues surrounding extractive industries, their effects and ethical issues, the tension between developmental needs and environmental justice in developing economies, Indigenous land rights, environmental degradation from extractive industries, Preserving wildness and balancing this with the requirements of population growth and urbanization.</p>
<p>Health care financing and Budgeting</p> <p>PHS 732</p> <p>2 Units</p>	<p>Goals of good healthcare financing strategies, functions, policies and plans, options in different settings, Performance Based Payments, Universal health coverage, Evolution of the budget process, theory and practice of budgeting, types, roles and demands of the budget, budgets as instrument of national, socio-economic policy formulation and implementation, Sources of revenue and purposes of governmental expenditures, budgeting process and cycle, politics of resource allocation with emphasis on revenue sharing, programme budgeting, The Medium-term sector strategy (MTSS) and medium-term expenditure framework (MTEF) for health resource allocation and financing.</p>
<p>Project Report</p> <p>BET 790 &</p> <p>Seminar</p> <p>BET 791</p>	<p>In the first semester, students must complete two online courses offered in the Collaborative Institutional Training Initiative (CITI) programme: 1) The Biomedical track of Human Subjects Research course and 2) The basic course in Responsible Conduct of Research, and submit certificates before developing proposal in second semester for a research guided by one or two appointed supervisors. The output, a project report should will be presented at a seminar, and defended before an external supervisor.</p>

DOCTORAL PROGRAMME

PhD Bioethics

STRESS AREAS

- “0” = Applied Bioethics
- “1” = Research ethics and Regulation
- “2” = Bioethics and Law
- “9” = Dissertation

COURSE OUTLINE (First Year)

Course Code	Course Title	Units
1st Semester		
PGC 701	Synopsis and Grant Writing	3
BET 801	Advanced bioethics	3

2nd Semester		
BET 812	Bioethics and Healthcare Systems	3
BET 822	Bioethics & Healthcare Law	3

COURSE DESCRIPTION

<p>Synopsis and Grant Writing PGC 701 3 Units</p>	<p>Identification of types and nature of grants and grant writing; mining of grants application call on the internet. Determining appropriate strategy for each grant application, study of various grants application structures and contents and writing of concepts notes, detailed project description, budgeting and budget defense. Study of sample grant writings in various forms and writings of mock research and other grants. Identification of University of Nigeria synopsis, structures and requirements (Introduction, Methodology and Results). Determining the content of each sub unit of the synopsis. Steps in writing of synopsis from the thesis /thesis document, structural and language issues. Common errors in synopsis writing and strategy in avoiding them. The roles of students and the supervisor in the production of the synopsis. Writing of mock synopsis. All registered DRPH students must attend a solution based interactive workshop to be organised by the school of post graduate studies for a practical demonstration and application of the knowledge acquired from the course conducted by selected experts.</p>
<p>Advanced bioethics BET 801 3 Units</p>	<p>Ethics of Neuroscience: Neuroscience, Bioethics and Neuro-ethics. Death and dying including meaning, types and declaration of death, the dying process, managing death Organ and tissue donation including organ donation, procurement and transplantation, and ethics of genomics research and genomic treatment including controversies in the generation, storage and use of new human genetic information.</p>
<p>Bioethics and Healthcare Systems BET 812 3 Units</p>	<p>Health care systems and needs (unit V) including public and individual health, definition, determinants and measurement of disparities in healthcare access, justice in provision of health care (unit VI) including justice and access, resources and service delivery, and reproduction issues in health care (unit VII) including ethical issues in research with embryos, gametes, assisted reproduction, etc.</p>
<p>Bioethics & Healthcare Law BET 822 3 Units</p>	<p>Principles of bioethics and health care law, and their application in clinical and policy settings, defining life (including human reproduction, surrogacy and fetal-maternal conflict), euthanasia and the prolonging of life including the right-to-die, medical futility, and advance directives; termination of treatment for children; genetic screening; hospital ethics committees; access to care and the politics of health care in the 90s; and ethics in the business of medicine. Conflict with ethics committees, Research participants, Communities and Funding agencies</p>

INSTITUTE REGULATIONS

Students are required to attend at least 75% of lectures for each module to be eligible to sit for 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 total marks) before sitting for the examination.
2. Any course not passed at 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 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, functioning internet access and a scientific calculator as basic minimum requirements at the commencement of the course.**

PROJECT FORMAT for Doctorate and Master of Science

1. Cover (Topic, Author/Reg. Number/ Department and Faculty/ Month and Year)
Note: The cover page should take the order above. The approved cover page colours are Green (MSc) and Black (PhD)
2. Preliminary Pages
3. Title Page: contains project title, preferably in capital letters
4. Approval page: shows evidence of approval by supervisor
5. Certification page:
6. Dedication: short, personal rather than academic
7. Acknowledgement: acknowledge assistance by members of staff, fellow students, and advice/ other contributions of supervisor
8. Table of Acronyms: A list of abbreviations and their full meanings
9. Table of contents: this is compulsory and must be accurate
10. List of Tables/ List of Figures: For tables, the list starts at the top of the page. For figures at the bottom of the figure
11. **Abstract:** A concise summary of the project. It should state the aim, methods, results and general conclusions. It must not contain tables, graphs, illustrations or references. It must not exceed 450 words
12. **Chapter One (Introduction):** The overall goal here is to give an overview of the thesis. The topic is to be introduced with the necessary background information. It requires an explanation of the significance of the thesis and justification for the study. The objectives and research questions are to be clearly stated.
13. **Chapter Two (Literature review):** This reviews what is currently known about the problem being investigated. It also reviews the methods chosen for the study including its strengths and limitations. Identification of convergent/ divergent views of previous authors as well as a personal opinion about the works of others is expected. The review is also to be structured along themes relevant to the study topic.
14. **Chapter Three (Methodology):** The objective is to inform the reader about materials and methods used in the study. Methods must be documented in such a way that the reader should be able to replicate the study in either exactly the same way or in a similar setting. It includes descriptions of

the study area, study population, study design, sample size calculation, sampling technique, data collection methods, data analysis and ethical considerations.

NOTE: The following must be borne in mind

What type of study method has been chosen? Qualitative, Quantitative or a combination of both? Describe how subjects will be chosen, selection criteria and detailed procedure for their selection Instruments for data collection and data analysis. All instruments must be described and included in the annex section.

15. **Chapter Four (Presentation of Results):** Results of data analysis are to be presented in tables, figures or charts, each standing on its own with a proper heading and description of its contents. **The results are not to be discussed here.**
16. **Chapter Five (Discussion):** Personal interpretation of the results are required here. Presentation of new results or already presented results are not expected here. Reference to previously reviewed literature and highlights of what was or was not found in the study are expected. Results are to be compared with that of previous studies and explanations for similarities and differences observed are expected. Fundamental questions to be answered include
 - Do the results provide answers to the hypotheses?
 - Do findings agree with other studies? If not, do they suggest alternative explanations or perhaps an unforeseen flaw in study design?
 - What new understanding of the problem can be elicited?
 - If warranted, are there new study directions which can emanate from the study?
 - The concluding part of the work should stress the importance of the study and give it a sense of completeness. It is therefore important to not only summarize but also synthesize. Do not just repeat findings already stated but also give the reader something to think about. Conclusion can go from specific to general or vice versa.
17. **Chapter Six (Conclusion and Recommendations):** This must be based on your study results ONLY.

JOURNAL MANUSCRIPT:

This is another crucial part of the work and is a pre requisite for MSc and PhD programs. The student is to generate a paper from the study for publication in an international journal. The journal is to be identified and its format used to prepare the draft. The Supervisor's guidance should be sought and authorship criteria must be maintained.

Most journals are set around the following sections:

- Title
- Introduction (Why was the study done?)
- Methods (What did we do?)
- Results (What did we find)
- Discussion (What does it all mean?)
- Acknowledgements (Who helped us out?)
- Bibliography/References (Whose work did we refer to?)
- Appendices (Any extra information?)

PLAGIARISM

When a quote from another source is used it should be separated from other text using quotation marks.

Failure to cite references or improper referencing will be considered plagiarism. Plagiarism is seriously unethical behavior and may lead to rejection or part of or the whole thesis. To minimize it subject your final work to Viper anti plagiarism software. If it is more than 5% it is unacceptable.