



**UNIVERSITY OF ILORIN
FACULTY OF ENVIRONMENTAL SCIENCES
DEPARTMENT OF URBAN AND REGIONAL PLANNING**

**CURRICULA FOR POSTGRADUATE PROGRAMMES
IN
URBAN AND REGIONAL PLANNING**

Proposed Programmes

Postgraduate Diploma (PGD) in Urban and Regional Planning,

Master of Science (M. Sc.) in Urban and Regional Planning

&

Doctor of Philosophy (Ph.D.) in Urban and Regional Planning

October 2022

Postgraduate Diploma in Urban and Regional Planning
PGD Urban and Regional Planning

A. List of Academic Staff

Name	Status and Qualification	Research Interests
W. M. Raheem	Lecturer 1 & Coordinator B.Sc. (Ilorin); M.Tech., Ph.D. (Ogbomoso)	Rural Development Planning, Planning Theory, Urban Greening.
O. B. Akinbamiyo	Professor B.Sc., MURP (Ibadan); Ph.D. (Akure)	Transportation Planning, Urban Design
A. I. Bako	Reader HND (Ilorin); B.Sc. (NOUN); MURP (Ibadan); MBA (Ogbomoso); Ph.D. (Akure)	Housing, Land Administration, Environmental Planning & Management
A. O. Sulyman	Reader B.A (Zaria); MURP (Ibadan); Ph.D. (Ilorin)	Infrastructure Planning, Regional Planning.
A. M. Alabi	Reader B.Sc., MURP, Ph.D. (Ibadan)	Environmental Planning and Management, Urban Management
I. A. Abdul-Azeez	Reader MURP (Ibadan); Ph.D. (Malaysia)	Environmental Resources Management,
Maimuna O. Abdulraheem	Senior Lecturer B.Sc., M.Sc. (Zaria); MBA, Ph.D. (Ilorin); PGDE (Kaduna)	Landscape Planning, Recreation Planning.
O. O. Idowu	Senior Lecturer B.Tech., M.Tech. (Minna); Ph.D. (Ilorin)	Urban Design and Remote Sensing Application
A. B. Ola	Senior Lecturer B.Sc. (Ife); M.Sc., Ph.D. (Ibadan)	Sustainable City, Urban Environmental Health, and Regional Planning
J. M. Yusuf	Lecturer 1 B.Tech. (Minna); M.Tech. (Ogbomoso); Ph.D (Venda)	Climate Change, Sustainable Spatial Environment

B. Introduction

The programme is designed to train middle-level research-oriented manpower to add to the stock of professional town planners in the country. The PGD programme also bridges the gap between lower-level and upper-level planning education. The programme also allows Higher National Diploma (HND) and 3rd Class degree holders to obtain a pre-qualification degree for the Master's Degree programme in Urban and Regional Planning.

C. Philosophy

The programme's philosophy is to provide both academically and professionally sound Town Planners who will help rebuild the ever-complex human environment to derive competence at both practical and policy-making levels. The programme prepares the ground for professionals and graduates who otherwise would not qualify for admission into a Master's degree in Urban and Regional Planning.

D. Aim and Objectives

The Postgraduate Diploma in Urban and Regional Planning aims to produce town planners with vast theoretical and practical skills embedded in the profession and are registrable with the Town Planners' Registration Council of Nigeria (TOPREC).

The specific objectives of the Postgraduate Diploma (PGD) programme are to:

- i. Train students in advanced, up-to-date courses in Urban and Regional Planning.
- ii. Produce professionals with upscaled skills to understand and manage the complex interplay and practical implications of urban and regional landscape changes.
- iii. Sharpen the research focus of H.N.D holders in Urban and Regional Planning and those with lower grades in the first degree to qualify them for further studies.

E. Admission Requirements

The candidates are required to possess the following minimum qualifications.

- i. Matriculation requirements of the University of Ilorin, including Mathematics, English Language, Geography and any two other subjects in either natural or social sciences;
- ii. Hold a first degree with a minimum of 3rd Class in Urban and Regional Planning from the University of Ilorin or any other recognised University, or
- iii. Hold HND upper credit in Urban and Regional Planning with a minimum of two years post-NYSC working experience or HND lower credit with a minimum of four years post-NYSC working experience.

F. Duration of the Programme

The full-time programme shall run for a minimum of 12 calendar months (two semesters) and a maximum of 18 calendar months (three semesters).

G. Detailed Course Description

URP 701 Housing and Urban Renewal 2 Credits

Housing needs, demand and supply. Basic principles of housing standards. Housing finance mechanism. Housing in Nigeria: design, construction methods, materials, forms and functions of elements. Housing problems-rural and urban. Housing policy analysis. Case studies: planned public housing, planned private housing and traditional housing. Urban Renewal: Concepts, Strategies and Case Studies. Urban Analysis, Urban Dynamics, Population Dynamics.

30h (T); C

URP702 Land Use Planning 2 Credits

Urban land-use patterns. Land use and land value and their relations in the organisation of cities. Land use determinants. Economic, social, public interest and physical characteristics. Theories of urban structures. Analysis and classification of urban land use. Principles of planning and design of specific land-use areas; residential,

commercial, industrial, public and semi-public etc., Space allocation standards for major land-use components by densities, plot sizes, area.

30h (T); C

URP 703 Planning Theory

2 Credits

The nature and purpose of planning. Normative descriptive and prescriptive theories of planning. Evolution of Town Planning Philosophy. The planning process and tradition in both capitalist and socialist economies. Management and decision-making in the planning process. The planner's role and functions. Citizen participation and evaluation in the planning process. Social sciences contributions to the development of planning theory.

30h (T); C

URP 704 Sustainable Environmental Planning and Management

2 Credits

Concept and Dimensions of Sustainable development. Institutional framework for Environmental planning and management in Nigeria. Environmental Protection Laws, Pollution. Waste Management. Environmental Accounting and Auditing, Environmental Education (EE) in Nigeria. Public participation in environmental planning and management. Disaster Management Including its objectives and techniques. Disaster Management Tools (GIS, Remote Sensing and other Mapping Techniques). Disaster Management Cycle. Elements of Disaster Management: Disaster Preparedness, Mitigation and Prevention. Major Components of Disaster Relief.

30h (T); C

URP 705 Planning Studio I

2 Credits

Studies of a major land-use problem at the urban scale, e.g., traffic congestion, street parking, street trading, shanty formation, etc., design of solution; studio project in assessing housing needs and problems. Technical report writing.

15h (T); 45h (P); C

URP706 Planning Studio II

2 Credits

Preparation of Development/Structure plan. The anatomy of the Development plan: Background information; analysis of geomorphologic features; theoretical/conceptual bases of plan formulation; formulation and analysis of alternative plans; etc. A practical project which emphasises the actual application of the principles and analytical techniques of urban planning. Comparative analysis of existing master plans.

15h (T); 45h (P); C

URP 715 Computer Applications to Planning

2 Credits

Data processing/data coding. Information processing using SPSS, Spreadsheet and MS Word. Geo-information system and application to urban and regional planning, Auto CAD, remote sensing application to planning.

30h (T); C

- URP 708 Professional Practice and Planning Law** **2 Credits**
 Professional scale of fees. Codes of conduct for professional planning practice in Nigeria. Planning Consultancy. Planning office and management. Land tenure system in Nigeria - land use decree 1978. Planning Acts and legislations in Nigeria. Land laws. Public Health Codes. Housing Code and Policies. Laws on compensation and Betterment. Modern Urban and Regional Planning laws in Nigeria- Development Control and Zoning.
30h (T); C
- URP 709 Principles and Techniques of Urban and Regional Planning** **2 Credits**
 Definition and objectives of planning. Modern cities: nature and structure. Land use and determinants. Planning at the Local, States and national levels. The Planning Process. 'Neighbourhood. Planning and design: its concepts in Nigerian context. Definition, scope and contents of a comprehensive development plan, Concept of zoning, Density, Floor Area Ratios. Public participation in planning. Hypothesis and their uses in planning. Professional Report Writing.
30h (T); C
- URP 710 Rural Development Planning** **2 Credits**
 The concept of rural development planning. The village as an organic entity. Rural-urban relationship, the physical and economic structure of a village. Constraints of rural development and relationship with rural planning.
30h (T); C
- URP 711 Quantitative Techniques and Research in Planning** **2 Credits**
 Nature and purpose of planning research. Identification and definition of planning problems. Research Topic selection: - definition of aim, objectives and hypothesis. Preparing a research design. Literature search, conceptual and theoretical issues. Research surveys: types, advantages and disadvantages. Research Instruments and execution of surveys: sampling methods. Data analysis: Correlations, Regression analysis, Factor Analysis, Principal component analysis. Drawing conclusion.
30h (T); C
- URP 712 Traffic and Transportation Planning** **2 Credits**
 Spatial transport analysis: Aims, Models and objectives of transport planning. Transport and the environment. Traffic problems and traffic management techniques. Methods of collection, analysis, interpretation and projection of traffic data. Network, Analysis. Mass transit, Transport terminals in Urban and Regional Planning. Spatial re-organisation and transport analysis. Transport policies.
30h (T); C
- URP 713 Tourism and Recreation Planning** **2 Credits**
 Definition of recreation. Assessment of supply and demand for recreational resources. Recreation planning standard. Management of recreational resources. Nature of

tourism development. Essentials of tourism planning. Tourism resources in Nigeria. Considerations for design, construction and development of tourist resorts. Tourist organisation. Travel agents and developers. Impact of tourism and tourism management.

30h (T); E

URP 714 Project Planning and Evaluation 2 Credits

The role of the project in Urban and Regional Planning. Introduction to budgeting techniques and project initiation. Project evaluation cycle. Evaluation Techniques: Cost- benefit-analysis. Sensitivity Analysis, Project Appraisal Techniques. Investment Analysis, Feasibility Reports and analysis, Analysis of Financial control, Risk Analysis, Strategic Management.

30h (T); C

URP 715 Regional Development Planning 2 Credits

Concept and types of region. Theories of regional growth and development. Central place theory, Core-periphery model, Growth pole theory, spatial equilibrium model. Regional inequality and spatial development. Regional development planning strategies. Regionalisation. Regional planning and economic development. Regional planning at the national and state levels. Depressed regions and regional planning. Economic Base Theory, shift-share analysis. Policy formulation in regional development.

30h (T); E

URP 799 Planning Project/Dissertation 6 Credits

A supervised planning research project includes pre- and post-data seminar presentations and defence of a dissertation before a panel of internal and external examiners.

270h (P); C

H. Graduation Requirements

To qualify for the award of Postgraduate Diploma in Urban and Regional Planning, a candidate must pass a total of 32 Credits comprising 30 Credits of Core courses and 2 Credits of Elective courses.

I. Summary

Core Courses: URP701 (2), 702 (2), 703 (2), 704 (2), 705 (3), 706 (2), 707 (3), 708 (3), 709 (2), 710 (2), 711 (2), 712 (2), 799 (6) **30 Credits**

Elective Courses: At least 2 Credits from the following courses: URP 713 (2), 714 (2), 715 (2) **2 Credits**

Total 32 Credits

Master of Science in Urban and Regional Planning
M.Sc. Urban and Regional Planning

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O. B. Akinbamijo	Professor B.Sc., MURP (Ibadan); Ph.D. (Akure)	Transportation Planning, Urban Design
A. I. Bako	Reader HND (Ilorin); B.Sc. (NOUN); MURP (Ibadan); MBA (Ogbomoso); Ph.D. (Akure)	Housing, Land Administration, Environmental Planning & Management
A. O. Sulyman	Reader B.A (Zaria); MURP (Ibadan); Ph.D. (Ilorin)	Infrastructure Planning, Regional Planning.
A. M. Alabi	Reader B.Sc., MURP, Ph.D. (Ibadan)	Environmental Planning and Management, Urban Management
I. A. Abdul-Azeez	Reader MURP (Ibadan); Ph.D. (Malaysia)	Environmental Resources Management,
Maimuna O. Abdulraheem	Senior Lecturer B.Sc., M.Sc. (Zaria); MBA, Ph.D. (Ilorin); PGDE (Kaduna)	Landscape Planning, Recreation Planning.
O. O. Idowu	Senior Lecturer B.Tech., M.Tech. (Minna); Ph.D. (Ilorin)	Urban Design and Remote Sensing Application
A. B. Ola	Senior Lecturer B.Sc. (Ife); M.Sc., Ph.D. (Ibadan)	Sustainable City, Urban Environmental Health, and Regional Planning
J. M. Yusuf	Lecturer 1 B.Tech. (Minna); M.Tech. (Ogbomoso); Ph.D (Venda)	Climate Change, Sustainable Spatial Environment

B. Introduction

Effective management of human settlements requires theoretical and technical knowledge to plan and guide the development of towns and cities. The complexities of modern settlements require a higher level of training to address the dynamics of physical development in the built environment. Therefore, there is a need to train professionals capable of handling the complex challenges of modern settlements. The M.Sc. programme aims to train high-level human resources in Urban and Regional Planning and produce graduates with technical and research skills.

C. Philosophy

The programme's philosophy is to provide enabling environment and unparalleled opportunities to acquire state-of-the-art qualitative practical skills and theoretical knowledge to produce world-

class Urban and Regional Planners who will significantly reshape the landscape of future rural and urban development.

D. Aim and Objectives

The M.Sc. programme aims to produce a competent, highly skilled and research-inclined world-class workforce in different areas of Urban and Regional Planning.

The specific objectives of the Programme are to:

- i. Train students who will appreciate the value inherent in and realities of the human environment and link the same with the studied theoretical issues.
- ii. Produce professionals equipped with up-to-date science and technology of the profession of Town Planning and hence be in a position to understand and manage the complex mechanisms and practical implications of changes in the urban and regional landscape.
- iii. Build a calibre of students with a sense of professionalism and scholarship.
- iv. Impart research skills and inculcate in students the research-for-development approach in urban and regional planning.

E. Admission Requirements

The Candidates for M.Sc. in Urban and Regional Planning programme must have the following requirements:

- (i) Five (5) O' level credit passes in English Language, Mathematics, Geography and two other subjects in natural or social sciences in not more than two sittings in WAEC, NECO or NABTEB.
- (ii) First degree (B.Sc., B.Tech. or its equivalent) in Urban and Regional Planning of UNILORIN or other recognised institutions with a minimum of (2nd Class Lower Division).
- (iii) Postgraduate Diploma in Urban and Regional Planning from the University of Ilorin or any other recognised university with a minimum score of 60% or 3.5 grade point average.

F. Duration of the Programme

The course duration shall be a minimum of three semesters (18 calendar months) and a maximum of five semesters (30 calendar months). The programme shall be run only on a full-time basis.

G. Detailed Course Description

URP 801 Town Planning Principles and Techniques

2 Credits

The nature of cities. The city as a system. Classical models, factorial ecology and micro-economic explanations of urban spatial structure. Evaluation of contemporary planning concepts. The scope of the planning process in the context of a comprehensive development plan - plan preparation following all problems identification, Data

gathering and analysis, programming methods, and plan implementation. Examination of salient planning standards for housing and road infrastructures.

30h (T); C

URP 802 Regional Development Planning 2 Credits

Basic concepts and nature of the region. Regional planning and development. Techniques of analysis and problems in preparing regional plans. Industrial location theories and models – Von Thunen and Weberian location models. Selected techniques of regional analysis, income and product accounts, base multiplier theory and spatial interaction models. Design Concepts on the spatial organisation and environmental form of regional areas. Theories of the physical structure of regions. Central place systems and Rank size relationship.

30h (T); C

URP 803 Planning Theory 2 Credits

The nature of Planning; Procedural and substantive theories in planning. Rational comprehensive planning, incrementalism, post-modernist planning, strategic planning, etc. The planning process, planning modes and traditions in capitalist and socialist economies. Rational action, the roles of planners, and selected theoretical issues.

30h (T); C

URP 804 Quantitative Techniques in Planning 2 Credits

Nature and purpose of planning research. Research topic selection: definition of aim, objectives and hypothesis. Research design. Literature search, conceptual and theoretical issues. Research surveys and instruments. Sampling techniques. Data analysis: descriptive and inferential statistics. Mean, median, mode, hypothesis testing, analysis of variance, chi-square test, T-Test, Pearson and Spearman correlation, regression analysis. The use of software packages in solving statistical problems. Drawing inferences and conclusions. Qualitative methods of analysis.

30h (T); C

URP 805 Housing and Urban Renewal 2 Credits

History of housing in the Nigerian Urban Development; Policies and laws affecting housing provision in Nigeria. Housing demand and supply. Housing finance characteristics. The state of the housing environment in Nigeria. Examination of residential blight characteristics. Evolution of Urban renewal programmes and their social and cultural implications. Case studies in both developed and developing worlds.

30h (T); C

URP 806 Land use Planning 2 Credits

The concept of land. Land use classification and its problems. Theories of urban land use, land management. Role of GIS and other soft-wares in land use planning. Examination of the determinants of urban land uses. Urban activity systems relationship between Land-Use and Transportation. Principles and design standards for planning and design of specific land-use areas. Urban land management.

30h (T); C

- URP 807 Geographic Information System** **2 Credits**
Concept and components of Geographic Information System, Relevance of GIS in Urban and Regional Planning. Principles of Geospatial data modelling and data representation, sources, acquisition and management of planning data. Data coding and processing, SPSS, Kobo collect, use of MS Excel. Google Earth application.
30h (T); C
- URP 808 Transportation Planning** **2 Credits**
Transportation planning and relevance to urban development and regional economic planning. Transportation and land-use interface. Transportation planning process: Data collection and analysis. Land use and transportation master plan. Traffic control and management. Mass transit in urban areas and the factors affecting route design. Travel Behaviour and Preferences. Analysis of travel behaviour. Traffic generation and distribution model, split assignment. Factors affecting road alignment etc. Transportation system and management.
30h (T); C
- URP 809 Planning Studio I** **2 Credits**
Introduction to block layout design and simple neighbourhood design and housing layout. Detailed layout of sites based on projections for anticipated population, densities, site occupancy etc., presentation of projects in two or three-dimensional media, i.e., model development. Comprehensive master plan involving surveys, analysis of alternative plans based on projections and feasible assumptions etc.
15h (T); 45h (P); C
- URP 810 Planning Studio II** **2 Credits**
Design of new towns and satellite towns. To demonstrate the design skill in comprehensive planning for a definite population and place.
15h (T); 45h (P); C
- URP 811 Professional Practice and Ethics** **2 Credits**
Plan preparation, implementation and arbitration. Preparation of planning briefs and tender documents, the scale of professional fees. Code of professional conduct as prescribed by the Nigerian Institute of Town Planners (NITP) and the Town Planners Registration Council of Nigeria (TOPREC). The role of NITP and TOPREC in planning in Nigeria. Establishing and managing a planning office - private or public. Contract terms, conditions and agreement. Project initiation, preparation and submission of the preliminary report. Project team selection. Various notifications for commencing projects. Project completion and approval procedures.
30h (T); C
- URP 812 Rural Settlement Planning** **2 Credits**
Types, hierarchy and pattern of rural settlements. Rural Settlement form and functions in different cultural zones in Nigeria, Village Planning Principles, Concepts and Standards of Rural Development Strategies in Nigeria.
30h (T); E

- URP 813 Environmental Planning and Impact Assessment** **2 Credits**
 Ecosystems and their relevance to the environment. Conceptualisation of urban ecosystem interactions and dependence on rural ecosystems. Environmental planning and environmental health. Ecological problems and pollution sources and effects. The concepts and strategy of Environmental Impact Assessments. Possible relationship with the existing Nigerian Environmental Impact Statement, standard procedure and format for preparation and presentation of the statement. Review of Environmental Impact Studies in U.S.A., U.K. etc.
30h (T); E
- URP 814 Sustainability Studies** **2 Credits**
 Concept of Sustainable development: Meaning and issues; Dimensions of sustainable development; relevant concepts: green city, smart city, compact city, etc. Informal economy, informal land use; and how to incorporate them into formal economy and land use planning.
30h (T); E
- URP 815 Social Issues in Planning** **2 Credits**
 Examination of the sociological concepts in planning, social stratification and urban composition. The effect of the physical environment on the activity and behavioural patterns of people. Concepts of urbanisation. Urbanism and sub-urbanism as a way of life. Urban social crimes. Citizen participation and evaluation in the planning process.
30h (T); E
- URP 816 Risk and Disaster Management** **2 Credits**
 Distinction between Risk and Disaster. Types of Disaster. Definition of Disaster Management Including its aims and objectives. Description of the tools of Disaster Management (GIS Remote Sensing and other Mapping Techniques). Disaster Management Cycle. Description of the Elements of Disaster Management: Disaster Prevention, Disaster Preparedness and Disaster Mitigation. Basic Steps in Disaster including Elements at Risk Assessment and Mapping, Vulnerability Analysis, Loss Analysis and Risk Analysis. Description of Disaster Mitigation Strategies and Disaster Preparedness. Major Components of Disaster Relief. Identification of various organisations involved in Risk and Disaster Management.
30h (T); E
- URP 899 Dissertation** **6 Credits**
 A supervised planning research project including pre- and post-data seminar presentations as well as defence of a dissertation before a panel of internal and external examiners.
270h (P); C

G. Graduation Requirements

To qualify for the award of a Master of Science degree in Urban and Regional Planning, a candidate must pass a total of 34 Credits comprising 30 Credits of Core courses and 4 credits of Elective courses.

J. Summary

Core Courses: URP 801 (2), 802 (2), 803 (2), 804 (3), 805 (2), 806 (2), 807 (2), 808 (2), 809 (2), 810 (2), 811 (2), 812 (2), 899 (6) **30 Credits**

Elective Courses: At least 4 Credits from the following courses: URP 813 (2), 814 (2), 815 (2), 816 (2) **4 Credits**

Total **34 Credits**

Doctor of Philosophy (Ph.D.) in Urban and Regional Planning

A. List of Academic Staff

Name	Status and Qualification	Research Interests
W. M. Raheem	Lecturer 1 & Coordinator B.Sc. (Ilorin); M.Tech., Ph.D. (Ogbomoso)	Rural Development Planning, Planning Theory, Urban Greening.
O. B. Akinbamijo	Professor B.Sc., MURP (Ibadan); Ph.D. (Akure)	Transportation Planning, Urban Design
A. I. Bako	Reader HND (Ilorin); B.Sc. (NOUN); MURP (Ibadan); MBA (Ogbomoso); Ph.D. (Akure)	Housing, Land Administration, Environmental Planning & Management
A. O. Sulyman	Reader B.A (Zaria); MURP (Ibadan); Ph.D. (Ilorin)	Infrastructure Planning, Regional Planning.
A. M. Alabi	Reader B.Sc., MURP, Ph.D. (Ibadan)	Environmental Planning and Management, Urban Management
I. A. Abdul-Azeez	Reader MURP (Ibadan); Ph.D. (Malaysia)	Environmental Resources Management,
Maimuna O. Abdulraheem	Senior Lecturer B.Sc., M.Sc. (Zaria); MBA, Ph.D. (Ilorin); PGDE (Kaduna)	Landscape Planning, Recreation Planning.
O. O. Idowu	Senior Lecturer B.Tech., M.Tech. (Minna); Ph.D. (Ilorin)	Urban Design and Remote Sensing Application
A. B. Ola	Senior Lecturer B.Sc. (Ife); M.Sc., Ph.D. (Ibadan)	Sustainable City, Urban Environmental Health, and Regional Planning

B. Introduction

Urban planning is the art and science of creating orderly and sustainable development of human settlements, requires both theoretical and technical knowledge that determines and shapes the future of towns and cities. The complexities of modern settlements require high level of skills which is grounded in research and empirical reasoning. Therefore, there is the need to train professionals and experts capable of handling the complex challenges of modern settlements. The Ph.D. programme in Urban and Regional Planning is designed to provide high-level training in the analysis of urban development and management issues that translate into policy and demand driven solutions to human settlement problems.

C. Philosophy

The philosophy of the Ph.D. programme of the Urban and Regional Planning Department is to produce researchers who are not only professionals but also academics with an interdisciplinary background in the fields of Urban and Regional Planning. It is to build capacity for policy

formulation, project implementation and urban management for the development of Nigeria and the world at large.

D. Vision

An excellent highly sought Ph.D. training programme in the field of Urban and Regional Planning at the national and global levels.

E. Mission

The mission is to train skilled personnel and specialists at the postgraduate level, who are both academically sound and professionally competent to handle the challenges of contemporary human settlements.

F. Aim and Objectives

The Ph.D. programme aims to produce competent, highly skilled and research-inclined world-class manpower in Urban and Regional Planning.

The objectives of the programme are to:

- i. Train students in high-quality research work comparable to international standards.
- ii. Intensify research into theoretical concepts to relate them to practical issues in the different specialised urban and regional planning fields.
- iii. Produce highly competent researchers in specialised fields of urban and regional planning.

G. Admission Requirements

The Ph.D. Programme is open to candidates who have the following qualifications.

1. Five (5) 'O' level credit passes in English Language, Mathematics, Geography and two other subjects in either natural or social sciences at no more than two sittings from WAEC, NECO or NABTEB.
2. Minimum of 60% or 3.5 weighted average mark and above in their M.Sc., M.Tech, (MURP Academic) or M.Phil. Degree examination of this University or any other recognised University.

H. Duration of the Programme

The duration for Ph.D. Programme shall be a minimum of six semesters (36 calendar months) and a maximum of 10 semesters (60 calendar months).

I. Course Requirements

A candidate may be required to audit courses in Urban and Regional Planning where necessary and as prescribed by the Department. The auditable courses at the Ph.D. level are the following.

URP 901 Theoretical and Philosophical Reasoning 2 Credits

Theories and models of urban and spatial development, Inductive and deductive reasoning, epistemology, ontology, axiology, etc.
30h (T); C

URP 903 Computer Applications in Planning 2 Credits

Hardware and Software; computer appreciation; description of storage medium. Computer Operating System. Use of search engines; Kobo collect; data coding and data processing; SPSS STATA and the use of excel. Google earth application.
15h (T); 45h (P) C

URP 905 Research Methods 2 Credits

Nature and purpose of planning research. Identification and definition of planning problems. Research Topic selection: - definition of aim, objectives and hypothesis. Preparing a research design. Literature search, conceptual and theoretical issues. Research surveys: types, advantages and disadvantages. Research Instruments, questionnaire design, focus group discussion, planning and execution of surveys: sampling methods; random, systematic and stratified etc. Data analysis: statistical and non-statistical. Drawing inferences and conclusions.
30h (T); C

URP 907 Quantitative Techniques in Planning 3 Credits

Methods useful in the planning process with emphasis in the qualitative and quantitative methods of analysis, Parametric and non- parametric statistics. Topics to be covered must include a review of the mean, median, mode, hypothesis testing, analysis of variance, chi-square test, T-test, Pearson and Spearman correlation, regression analysis and multivariate statistics. The use of software packages in solving statistical problems.
30h (T); C

URP 999 Thesis 9 Credits

Students will conduct research, leading to a thesis, on a relevant topic approved by the Department and the Postgraduate School's Board. The thesis should address relevant urban planning issue and should be capable of contributing to the body of knowledge in the discipline. The thesis shall conform to the regulations of the Postgraduate School in terms of format, contents and methodology.
405h (P); C

J. Graduation Requirements

- i. The candidate must pass audited courses in Urban and Regional Planning as the Department prescribes.

- ii. Write a proposal on the approved thesis title and pass an oral defence of the proposal approved by the University Postgraduate School before proceeding to the Ph.D. programme.
- iii. A candidate is required to write a thesis on the approved title in a chosen area of specialisation of Urban and Regional Planning.
- iv. Present a minimum of two seminars, one at the pre-data collection and one at the post-data analysis stages, to the departmental postgraduate committee.
- v. Pass an oral external defence of the thesis as approved by the Postgraduate School of the University.