

NATIONAL BOARD FOR TECHNICAL EDUCATION
PLOT B, BIDA ROAD, P.M.B. 2239, KADUNA – NIGERIA

HIGHER NATIONAL DIPLOMA (HND)

IN

URBAN AND REGIONAL PLANNING

CURRICULUM AND COURSE SPECIFICATIONS

SEPTEMBER 2002

URBAN AND REGIONAL PLANNING PROGRAMME

HIGHER NATIONAL DIPLOMA (HND) I
FIRST SEMESTER

Course	Course	L	T	P	CU	CH	Pre-requisite
URP 311	Technical Report Writing	1	-	-	1	1	
URP 313	Land Economics	1	-	3	2	4	
URP 315	Quantitative Analysis	1	1	-	2	2	
URP 317	Housing II	1	-	3	2	4	
URP 319	Infrastructure Planning II	1	-	3	2	4	
URP 321	Rural Development Planning	1	-	3	2	4	
URP 323	Research Techniques in Planning	1	-	3	2	4	
URP 325	Urban Management	2	-	-	2	2	
URP 327	Studio I Village Design	1	-	6	3	7	
		10	1	21	18	32	

URBAN AND REGIONAL PLANNING PROGRAMME

**HIGHER NATIONAL DIPLOMA (HND) I
SECOND SEMESTER**

Course	Course	L	T	P	CU	CH	Pre-requisite
GNS 321	International Relations	2	-	-	2	2	
COM 311	Introduction to Computer Programming	2	-	3	3	5	-
URP 320	Photography and Model Making	2	-	3	3	5	-
URP 322	Land Scape Planning	1	-	3	2	4	-
URP 324	Regional Planning I	1	-	3	2	4	-
URP 326	Transportation Planning II	1	-	3	2	4	-
URP 328	Tourism & Recreational Planning	1	-	3	2	4	-
URP 330	Studio II Urban Design	1	-	6	3	7	-
		11	-	24	19	35	URP 130

URBAN AND REGIONAL PLANNING PROGRAMME

**HIGHER NATIONAL DIPLOMA (HND) II
FIRST SEMESTER**

Course	Course	L	T	P	CU	CH	Pre-requisite
URP 411	Computer Application in Planning	1	-	3	2	4	COM 311
URP 413	Urbanization	2	-	-	2	2	-
URP 415	Natural Resource and Environmental Planning	1	-	6	2	7	-
EST 111	Introduction to Estate Management	2	-	-	2	2	-
URP 417	Regional Planning II	1	-	3	2	4	URP 324
URP 419	Seminar in Planning	-	-	3	1	3	-
URP 421	Land Use Planning II	1	-	3	2	4	-
URP 423	Sustainable Human Settlement II	1	-	6	3	7	-
URP 425	Studio III – Development Planning	1	-	6	3	7	URP 330
		11	-	21	18	40	

URBAN AND REGIONAL PLANNING PROGRAMME

HIGHER NATIONAL DIPLOMA (HND) II
SECOND SEMESTER

Course	Course	L	T	P	CU	CH	Pre-requisite
GNS 323	Introduction to Psychology	2	-	-	2	2	
URP 420	Principles of Management	2	-	-	2	2	-
URP 422	Project Planning and Evaluation	1	-	3	2	4	-
URP 424	Urban Planning Law & Admin III	1	1	-	2	2	-
URP 426	Professional Practice	2	-	-	2	2	-
GIT 304	Principles of Geoinformatics (GIS)	1	-	3	2	4	-
URP 430	Studio IV – Urban Renewal Design	1	-	6	3	7	URP 425
URP 432	Planning Dissertation	2	-	6	4	8	-
		12	1	18	19	31	

NATIONAL BOARD FOR TECHNICAL EDUCATION, KADUNA

PROGRAMME: HIGHER NATIONAL DIPLOMA IN URBAN AND REGIONAL PLANNING			
COURSE: TECHNICAL REPORT WRITING		Course Code: URP 311	Contact Hours: 1-0-0
Course Specification:			
Theoretical Content:			
	General Objective: Provide student with knowledge and prepare them for report writing in Urban Planning Practice		
Week	Special Learning Objective	Teachers Activities	Learning Resources

1-3	<p>Meaning of Technical Report Writing Explain the meanings of technical report. Describe the nature of various reports. Define the readership of technical report. Explain the types of report.</p>	<p>Explain the meanings of technical report. Describe the nature of various reports. Define the readership of technical report.</p>	<p>Relevant textbooks, available report e.g. projects, dissertations, thesis, government report, etc. planning consultancy report.</p>
4-6	<p>Discuss the characteristics of such reports in physical planning Relate the reports to physical planning practice.</p>	<p>Explain the types of report. Discuss the characteristics of such reports in physical planning Give students assignments on nature characteristics and readership of technical reports</p>	<p>Libraries, information centres etc.</p>
7-9	<p>Valuation Report Describe planning reports and research reports. Explain progress report and position papers. Differentiate between each of them. Develop each type of report with an outline.</p>	<p>Explain progress report and position papers i. Describe planning reports and research reports. ii. Differentiate between each of them. i. Develop each type of report with an outline</p>	<p>Books on project writing.</p>
10-12	<p>Methods of report Writing State importance of use standard method in writing technical report Outline the procedure in writing a report. Produce outline of a report Develop the report.</p>	<p>Give students assignments on how to develop each type of Report using the outline.</p>	

	<p>Information Required in Technical Report Writing</p> <p>State the various types of information that would be required in reports.</p> <p>Explain terms of reference in report.</p> <p>Explain the difference between facts and opinion.</p> <p>Analyse facts and opinion of the report.</p> <p>Select suitable facts and opinion</p> <p>Write reports on selected technical matters.</p> <p>Present the reports.</p> <p>Students present the reports – class discussion</p>	<ol style="list-style-type: none"> i. State importance of use of standard method in writing technical report ii. Outline the procedure in writing a report iii. Produce outline of a report iv. Develop the report <p>Students are given different topics to use the outline to develop their reports.</p>	<p>Vehicles and other required logistics</p>
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NATIONAL BOARD FOR TECHNICAL EDUCATION, KADUNA

PROGRAMME: HIGHER NATIONAL DIPLOMA 1			
COURSE: LAND ECONOMICS		Course Code: URP 313	Contact Hours: 1-0-3
Course Specification:			
Theoretical Content:			
Week	General Objective: To acquaint students with principles of Land economics and application to Urban and Regional Planning		
	Special Learning Objective	Teachers Activities	Learning Resources
1	<p>1.0 Land Resources</p> <p>1.1 Explain the concepts of supply and demand for Urban land.</p> <p>1.2 Prepare a graph supply and demand of land to determine their values.</p> <p>1.3 Explain the effect of various land use e.g. Commercial, Industrial, Residential, Open Space, Recreational, Special Districts, etc.</p> <p>1.4 Explain the effect of population increase on industrial to commercial and residential developers.</p>	<p>i. Explain the concepts of supply and for urban land</p> <p>ii. Prepare a graph supply a demand of land to determine their values.</p> <p>iii. Explain the effect of various lands uses e.g. commercial, industrial, residential, open space, recreational, special districts etc.</p> <p>iv. Explain the effects of population increase on industrial, commercial and residential developments.</p> <p>v. Give students assignments on theories/principles of land use and land values etc.</p>	<p>Textbooks, journals, projects and reports, theories of urban land demand and supply.</p> <p>Population census figures</p> <p>iii Inventories of land deals and cadastrals.</p>

2	<p>Land Demand State recent developments on land issue. Explain the implications of sale of land. Explain the reasons for increase demand. For landed property Relate land demand to planning practice.</p>	<ul style="list-style-type: none"> i. Explain recent developments on land issue. ii. Explain the implication of sale of land. 	<p>Land Laws and land use Decree.</p>
3	<p>3.0 Landed Property Conservation</p> <ul style="list-style-type: none"> 3.1 Explain the reasons for land preservation and conservation. 3.2 Explain the land use protection decree of 1978. 3.3 Assess the power to keep land. 3.4 Determine the effect on landed property conservation on communities. 	<ul style="list-style-type: none"> i. Explain the reasons for increase demand for landed property. ii. Relate land demand to planning practice. 	<p>Conference papers</p>
4	<p>Land Use</p> <p>Define utility of land. State advantages of land possession. Determine land appreciation. Provide worked examples</p>	<ul style="list-style-type: none"> i. Give and explain the reasons for <u>and benefits</u> of land preservation and conservation. ii. Students to carry out surveys on effects of increase in population on urban activities and relate it to urban sprawl and planning practice. iii. Analyse and explain the provisions of the land use decree of 1978. <p>Make known to students the effect of landed property</p>	<p>Land use Decree Calculators</p>

<p>5</p>	<p>Market Value Explain methods of land assessment and variation in prices. Distinguish between land uses in urban, rural and agricultural areas. Explain the development value of land. Provide worked examples.</p> <p>Real Estate Economics State thriftiness in real estate. Explain the basis for real estate management Describe estate planning and its effects on the state development. Develop Estate Planning in your Area of operation.</p>	<p>i. Explain methods of land assessment and variation in land prices</p> <p>ii. Invite a guest speaker to give a talk on the methods.</p> <p>iii. Differentiate between urban, rural and agricultural land uses; explain their distinguishing characteristics.</p> <p>iv. Make students know what development value of land; illustrate with worked examples.</p> <p>v. Explain thriftiness in real estate and the basis for real estate management.</p> <p>Lecture on estate planning and its effects on estate development.</p> <p>Students to undertake assignments on principles and requirements for estate planning in their area of operation.</p>	<p>Real Estate Economics</p> <p>Urban Economics Books</p>
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7	<p>Real Property Market</p> <p>Describe real property market structure. List the types of property and development techniques. Distinguish between rural and urban housing and their problems.</p>	<p>i. Discuss real property market structure, types of properties and their development techniques.</p> <p>ii. Differentiate between rural and urban housing and their problems.</p>	
8	<p>Real Estate Valuation</p> <p>Relate economic rent to land value. Identify nature of land value. Explain characteristics of real (estate) property market. Relate property market to Town Planning. Proved worked examples.</p>	<p>State and relate economic rent to land value and the nature of land value.</p> <p>Explain the characteristics of real (estate) property market and relate property market to town planning; provide worked examples.</p> <p>Conservation on communities. Students to critically assess the provisions of the land use Decree in the light of current happening in land use and management.</p> <p>Define the utility of land possession. Determine land appreciation with worked examples.</p>	<p>Value Tables Calculators</p> <p>Cadrestal records</p>

9	<p>Development Control</p> <p>Discuss definition of Incentive and Control Development Measures. Define: impact zoning, special zoning, development right transfer, land right development preservation districts, incentive zoning planned units development, overlay, tax evasion, mix development. Relate them to solve Urban Planning problems.</p>	<ul style="list-style-type: none"> i. State and define incentive and control Development measures. ii. Define and explain impact zoning, special zoning, development right transfer, land right development preservation districts, incentive zoning planned units development, overlay tax evasion, mixed development and relate them to solve Urban Planning problems. 	<p>Literatures from FMWH and Bureau for Internal Revenue.</p>
10	<p>Zoning Regulations</p> <p>Explain Zoning Laws in Nigeria. List the advantages/disadvantages of Zoning Laws. Analyse the effects of land Decree in Nigeria Formulate zoning regulations in the state of operation.</p>	<p>Explain zoning Laws in Nigeria. Discuss the advantages and disadvantages of zoning Laws, and the effects of Land Decree in Nigeria. Explain he procedure for formulating zoning regulations.</p>	<p>Land use Decree of Nigeria Zoning Law of Nigeria</p>
11-12	<p>11.0 Field Trip</p> <p>Carry out case studies in Land Economics on selected topics.</p>	<ul style="list-style-type: none"> i. Field Trip: Case studies in Land economics in selected topics. 	

NATIONAL BOARD FOR TECHNICAL EDUCATION, KADUNA

PROGRAMME: HIGHER NATIONAL DIPLOMA IN URBAN AND REGIONAL PLANNING.			
COURSE: QUANTITATIVE ANALYSIS		Course Code: URP 315	Contact Hours: 1-1-0
Theoretical Content:			
	General Objective: Students to apply their ability to apply mathematical/statistical skills to solving Urban and Regional Planning Problems.		
Week	Special Learning Objective	Teachers Activities	Learning Resources

<p>1-2</p> <p>3</p> <p>4-7</p>	<p>1.0 Hypothesis 1.1 Define 'hypothesis' 1.2 Define null hypothesis (H_0). 1.3 Define alternative hypothesis (H_1) 1.4 Define significant level 1.5 Explain normal distribution 1.6 Enumerate different tests of hypothesis.</p> <p>2.0 Population Means and Sampling Means 2.1 Define population means 2.2 Define sample mean 2.3 Differentiate between population mean and sample mean.</p> <p>3.0 Central Tendency and Dispersion 3.1 Define measure of tendency concepts of variance. 3.2 Define measures of dispersion. 3.3 List the functions of central measure and dispersion. 3.4 Calculate mean, mode, standard deviation, standard error of measure, etc.</p>	<p>i) Define "hypothesis"-null (H_0) and alternative (H_1) ii) Define and explain significance level and normal distribution. iii) Make known the different tests of hypothesis iv) Make the students practice how to formulate hypothesis</p> <p>i) Explain population means, sample means and differentiate between population and sample mean.</p> <p>i) Explain measure of central tendency concepts of variance and measures o dispersion. ii) Name the function of central measures and dispersion. iii) Show the students how to calculate means, mode, standard deviation, standard error of measure, etc. iv) Give the students assignment on this .</p>	<p>Books and research works on quantitative analyses, projects report writing and presentation.</p> <p>National population Handbook.</p> <p>Handbook of Federal office of site.</p>
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8-9	<p>4.0 Analysis of Variance</p> <p>4.1 Define “between” and within groups’ variance.</p> <p>4.2 Estimate variance base on differences between means of individual groups i.e. within group variance.</p> <p>4.3 Estimate variance based on differences between the means of group i.e. “Between Groups Variance”.</p> <p>4.4 Undertake analysis of variance of data from varying sizes groups.</p> <p>4.5 Practice the use of total sum of squares instead of means and variance when sample groups are not of equal sizes.</p> <p>4.6 Relate groups sum of squares and within groups of sum of squares.</p>	<ul style="list-style-type: none"> i) Differentiate the ‘between’ and ‘within’ groups variance. ii) Compute variance based on difference between means of individual groups (within group variance)and between the means of groups (between groups variance) iii) Show students how to analyze variance of data from varying size groups. iv) Explain and make students practice the use of total sum of squares in place of means and variance when sample groups are not of equal sizes and to relate groups sum of squares and within groups of sum of squares. 	<p>Use of Calculators</p> <p>World Bank Publications</p>
10	<p>5.0 Correlation Co-efficient</p> <p>5.1 Explain different types correlation.</p> <p>5.2 Differentiate between simple correlation, partial correlation and simple regression.</p> <p>5.3 Enumerate types of correlation e.g. Peddrium, Spareman.</p> <p>5.4 Discuss the meaning of regression techniques</p> <p>5.5 Calculate simple regression.</p>	<ul style="list-style-type: none"> i) Ask students to differentiate different types of correlation, Simple correlation, partial correlation, simple regression, Peddruim and Spearman-rank. ii) Discuss regression techniques and how to calculate simple regression. 	<p>Textbooks on Statistics</p>
11-12	<p>6.0 Chi – square</p> <p>6.1 Define chi-square (X^2).</p> <p>6.2 Use of chi – square to test theoretical sampling distribution that a certain sample was drawn from a population within a given distribution.</p> <p>Field Trip</p> <p>6.3 Undertake visits to Ministries of Statistics and National Planning Offices.</p> <p>6.4 Participate in their roles.</p> <p>6.5 Relate the skills to acquired selection in Urban Planning problems.</p>	<ul style="list-style-type: none"> i) Explain to student how to calculate chi-square. ii) Make students to use chi- square to test certain samples drawn from populations. iii) Students to undertake education visits to Ministries of Statistics, National Planning Offices, etc and be involved in these establishments’ roles and relate the skills acquired to selected urban planning problems. 	<p>UNDP, World Bank publications</p> <p>Conference Papers.</p>

NATIONAL BOARD FOR TECHNICAL EDUCATION, KADUNA

PROGRAMME: HIGHER NATIONAL DIPLOMA IN URBAN AND REGIONAL PLANNING.			
COURSE: HOUSING II		Course Code: URP 317	Contact Hours: 1-0-3
Theoretical Content:			
Week	Special Learning Objective	Teachers Activities	Learning Resources
1-2	<p>1.0 Housing Policy and Programmes</p> <p>1.1 Define housing policy</p> <p>1.2 Recognize the fact that housing goal of all the nations of the world is the same i.e. to adequately house everybody in the society in a good housing located in a good environment and at an affordable cost.</p> <p>1.3 List different housing programmes that may be embarked upon to achieve 1.2 above.</p> <p>1.4 Indicate why different nations of the have to use different housing programmes.</p> <p>1.5 Select appropriate housing programmes for use in Nigeria.</p> <p>1.6 Discuss the elements of national housing policy.</p> <p>1.7 Identify decision making in major housing.</p> <p>1.8 Discuss the use of indicators diagnostic housing sector performance and policy.</p> <p>1.9 Discuss UNA documents on housing e.g. habitat agenda global strategies for shelter etc.</p>	<p>Housing policy and programmes</p> <p>Define housing policy recognizing the fact that housing goal globally is the same.</p> <p>Differences in housing programmes for achieving 1.1 in Nigeria and in other nations and why.</p> <p>Lecture on elements of national housing policy and decision making in major housing.</p> <p>Discuss the use indicators diagnostic, housing sector performance and policy, UNA documents housing e.g. HABITAT agenda for global strategies for shelter etc.</p>	<p>Text books, journals, policy documents, project reports and research works etc relating to housing.</p> <p>(Especially UNCHS/HABITAT documents on shelter)</p>

3	<p>2.0 Rural Housing</p> <p>2.1 Relate the differences between urban housing and rural housing.</p> <p>2.2 State the main objectives of rural housing.</p> <p>2.3 Indicate appropriate housing programmes for rural areas.</p> <p>2.4 State means of financing rural housing.</p> <p>2.5 Prepare a layout for rural housing plan in your state of operation.</p>	<p>Differentiate between urban and rural housing.</p> <p>Discuss the main objectives of rural housing, housing programmes appropriate for rural housing.</p> <p>Students to prepare layouts for rural housing in their state of operation.</p>	<p>World Bank Publication.</p> <p>Drawing Boards with appropriate instruments.</p>
4	<p>3.0 Housing Investment</p> <p>3.1 State the different forms of housing investment.</p> <p>3.2 Recognise the importance of private sector in housing production.</p> <p>3.3 Identify non-profit making investors, lie the co-operatives in housing.</p>	<p>Make the students now the different forms of housing investment and types of investors.</p> <p>Point out the importance of private sector in housing and make known no-profit organizations e.g. housing cooperatives.</p>	<p>UNDP Publication.</p> <p>NITP Conference Papers.</p>

5-6	<p>4.0 Housing Finance</p> <p>4.1 List all the sources of housing finance 4.2 Indicate how the funds can be mobilized 4.3 Explain how the poor people can raise money for their own houses. 4.4 State the different ways of subsidizing both the supply and demand sides of housing market. 4.5 Provide worked examples.</p>	<p>Enumerate the various sources of housing finance. Explain strategies for mobilizing funds and how the poor can raise money for self owned houses subsidizing demand and supply sides of housing market. Make the students know ways of subsidizing demand and supply sides of housing market. Illustrate with worked out examples.</p>	<p>FMWH Publications. NITP Conference Papers. Calculators.</p>
7	<p>5.0 Socio-Economic Housing of Aspects of Housing</p> <p>5.1 Explain housing as a social service. 5.2 Explain the roles of housing in the national economy. 5.3 Appraise their merits and demerits.</p>	<p>Explain housing as a social service and the roles of housing in national economy.</p>	<p>NITP Conference Papers.</p>
8	<p>6.0 Housing Management</p> <p>6.1 Explain housing management. 6.2 State the different forms of ownership and tenancy. 6.3 State the different methods of selecting tenants into a building. 6.4 Describe the qualities and functions of a good housing manager.</p>	<p>Lecture on housing management, the forms of ownership and tenancy and methods of selecting tenants into a building. Expansiate the qualities and point out functions of a good housing Manager to students.</p>	<p>World Bank Publication.</p>

<p>9-10</p>	<p>7.0 Housing Standards</p> <p>7.1 Indicate the reasons for setting housing standard.</p> <p>7.2 Describe how the countries develop their housing standards.</p> <p>7.3 Review existing housing standard in Nigeria.</p> <p>7.4 Formulate housing standards for use in different parts of Nigeria.</p>	<p>Discuss the reasons and rationale for setting housing standards and how other countries develop their standards.</p> <p>Make the students review existing housing standards in Nigeria and formulate housing standards for various parts of Nigeria.</p>	<p>FMWH Standards.</p> <p>Building Standards and Codes in Nigeria.</p>
<p>11-12</p>	<p>8.0 Urban Renewal</p> <p>8.1 Identify the different stages of deterioration in residential environment.</p> <p>8.2 List the factors that are responsible for the deterioration of residential environment.</p> <p>8.3 Describe the methods of delineating blighted area.</p> <p>8.4 Formulate strategies for urban renewal.</p> <p>Field Trip</p> <p>8.5 Undertake visits to Housing Corporation Mortgage Banks.</p> <p>8.6 Participate in their roles.</p> <p>8.7 Carry out simple housing projects on selected topics.</p>	<p>Lecture on the stages of deterioration in residential environment, factors responsible and methods of delineating blighted area.</p> <p>Explain and guide the students how to formulate strategies for urban renewal.</p> <p>Make educational field to Housing Authorities, Mortgage banks.</p>	<p>Vehicles and related resources</p> <p>Federal Housing Authority of Nigeria Handbook.</p> <p>FMB Handbook.</p> <p>Books on Urban Renewal.</p>

NATIONAL BOARD FOR TECHNICAL EDUCATION, KADUNA

PROGRAMME: HIGHER NATIONAL DIPLOMA IN URBAN AND REGIONAL PLANNING.			
COURSE: INFRASTRUCTURE PLANNING II		Course Code: URP 319	Contact Hours: 1-1-3
Course Specification:			
Theoretical Content:			
Week 1-2	General Objective: Provide in-depth knowledge of provision/distribution of infrastructure in Urban Planning Practice.		
	Special Learning Objective	Teachers Activities	Learning Resources
3	<p>1.0 Water Supply and Distribution 1.1 Calculate water requirement of a given community based on planning standard. 1.2 Project the water requirement of the given community for a given future period. 1.3 State pricing principles of water distribution. 1.4 Explain water distribution network for a given Community. 1.5 Prepare a layout of water distribution network for a community using appropriate space standard and regulations.</p> <p>2.0 Fire Service 2.1 Explain the importance of fire service in a community. 2.2 Relate fire service to accessibility. 2.3 State principles of location of fire services. 2.4 State attributes of efficient fire services. 2.5 Relate fire service to community water distribution network, using appropriate space standard and regulations. 2.6 Prepare an appropriate fire service layout in your area of operation.</p>	<ul style="list-style-type: none"> ▪ Teach students how to calculate water requirement based on planning standards, project water requirements for a given future period. ▪ Explain pricing principles of water distribution network. ▪ Guide the students to prepare a layout of water distribution using appropriate space standards and rules. ▪ Discuss the importance of fire in a community, fire service-accessibility relations, principles of location of fire services and attributes of efficient fire service. ▪ Show the relationship of fire service to water distribution network in a community based on planning standards. ▪ Teach the requirements for preparing a fire service layout in a given area. 	<p>Collect reference materials from UNDP, Federal Ministry of Works and Housing.</p> <p>Water Boards from the State UN etc.</p> <p>Reference materials , journals, periodical etc.</p> <p>Federal Fire Service Codes.</p>

4	<p>3.0 Drainage</p> <p>3.1 Explain drainage system. 3.2 Identify various types of drains. 3.3 Identify materials for constructing drains. 3.4 Describe these materials and their properties. 3.5 relate drainage to waste and storm water. 3.6 State the principles of drainage layout. 3.7 Prepare drainage layout for a given area using appropriate space standard and regulations.</p>	<ul style="list-style-type: none"> ▪ Lecture on drainage system, types of drains, materials for constructing drains and properties of these materials. ▪ Show the relationship of drainage to waste and storm water. ▪ List the principles of drainage layout and guide students to prepare drainage layout based on planning standards. 	<p>Housing Standards and Codes.</p> <p>UNDP Publications.</p>
5-6	<p>4.0 Sewerage and Treatment of Sewage</p> <p>4.1 Distinguish between sewage and sewerage. 4.2 Identify types of sewerage e.g. central and private. 4.3 Explain sewerage system. 4.4 Identify materials for constructing sewer lines. 4.5 Describe these materials. 4.6 Relate sewer lines to water distribution network. 4.7 Describe methods of treating and recycling sewage. 4.8 Prepare sewerage network for a community using appropriate standard and regulations.</p>	<ul style="list-style-type: none"> ▪ Differentiate between sewerage and sewage and explain types of sewerage (central/private etc.) and sewerage system. ▪ Discuss materials for constructing sewer lines, relationship of sewer lines to water distribution network as well as methods of treating and recycling sewage. ▪ Students working in groups produce sewerage system for a given based on planning standards under the guidance of the Lecturer. 	<p>UNDP and World Bank Publications.</p> <p>Books on Sewerage and Treatment of Sewage.</p> <p>NITP, NSE, NIA Conference Papers.</p>
7-8	<p>5.0 Power supply</p> <p>5.1 State sources of power supply. 5.2 Describe sources of power supply. 5.3 Explain the transmission and distribution system in a community. 5.4 show the pricing system of electricity. 5.5 Apply the concept of easement to planning. 5.6 Explain easement. 5.7 State the importance and limitation of an easement. 5.8 Prepare a layout of power supply in your area of operation.</p>	<ul style="list-style-type: none"> ▪ Point out and describe sources of power supply. ▪ Explain power transmission and distribution system and pricing system of electricity. ▪ Discuss the concept of easement, its importance and limitation and application to planning. ▪ Provide and explain principles and guidelines for preparing a layout of power supply in a given area. ▪ Give students assignments. 	<p>UNDP Publication.</p> <p>NEPA Handbooks. Federal Ministry of Mines and Power (FMMP).</p>

<p>9-10</p>	<p>6.0 Telephone Service</p> <p>6.1 Explain the importance of telephone service. 6.2 Explain the distribution of telephone service. 6.3 Relate telephone services to electricity supply to avoid conflict of overhead cables. 6.4 Prepare a layout for telephone service lines in the state of operation.</p>	<ul style="list-style-type: none"> ▪ Lecture on the importance of telephone service, the distribution of telephone service and the relation of telephone service to electricity (e.g. conflict of overhead cables). ▪ Provide guidelines for distribution of telephone service lines. ▪ Give students assignments. 	<p>NITEL Handbooks.</p> <p>Federal Ministry of Communication Handbook.</p> <p>UNDP Publications.</p> <p>NSE Conference Papers.</p>
<p>11-12</p>	<p>7.0 Design of Utility services Network</p> <p>7.1 Prepare a profile of relative position of various infrastructures on a typical street. 7.2 Identify each service in the designed profile with standard colours. 7.3 Carryout simple work in selected topics.</p>	<ul style="list-style-type: none"> ▪ Work out a profile of the relative position of various infrastructures on atypical street. ▪ On the designed profile, differentiate each service with standard colours. ▪ Give assignments to students to carryout similar work on selected topics. 	<p>Federal Water Resources Handbook.</p> <p>Public Utility Planning Books and Conference Papers of NITP.</p>

NATIONAL BOARD FOR TECHNICAL EDUCATION, KADUNA

PROGRAMME: HIGHER NATIONAL DIPLOMA IN URBAN AND REGIONAL PLANNING.				
COURSE: RURAL DEVELOPMENT PLANNING		Course Code: URP 321	Contact Hours: 1-0-3	
Course Specification:				
Theoretical Content:				
Week	General Objective: Enable students understand concepts of Rural settlement planning in Nigeria.	Special Learning Objective	Teachers Activities	Learning Resources
1		1.0 Rural Area, Rural Planning and Community 1.1 Differentiate between urban and rural community. 1.2 State the main objectives of rural planning. 1.3 Explain the need for community development and rural planning.	i. Differentiate between urban and rural communities. ii. State and explain main objectives of rural planning, need for community development and rural planning.	Relevant textbooks, journals, other forms of published and unpublished literatures.
2		2.0 Rural/Urban relationships 2.1 List the functions of both urban and rural systems. 2.2 Correlate these functions on 2.1 above to see their interdependence. 2.3 Describe the rural urban continuum and its planning implication.	i. Present, explain and correlate functions of urban and rural systems (in terms of interdependencies). ii. Explain the rural-urban continuum and its planning implication.	FMWH Publications on Rural Planning. UNDP, World Bank Publications.
3-4		3.0 Characteristics of Settlements in Rural Areas 3.1 Identify settlement types and patterns in rural areas. 3.2 State the importance of the village in rural areas. 3.3 Recognize the village as an organic entity – a system. 3.4 Assess the physical and socio-economic characteristics of rural settlements. 3.5 Design a typical rural setting.	i. Discuss rural settlement types and patterns, importance of the village in rural areas, and the village as an organic entity – a system. ii. Assess physical and social economic characteristics of rural settlements. iii. Give students assignment to design a rural setting.	Relevant textbooks, journals, other forms of published and unpublished literature.

5	<p>4.0 Problems of Rural Areas</p> <p>4.1 List the major problems in the rural areas – problems of depopulation, land lack of basic infrastructure, poverty and distress.</p> <p>4.2 Analyze the main causes of the problem.</p> <p>4.3 Evaluate the past efforts in solving the problems.</p> <p>4.4 Recommend solutions to the present problems.</p>	<p>i. Enumerate major problems of rural areas and analyze their main causes.</p> <p>ii. Appraise past efforts in solving the problems and recommend appropriate solutions to prevailing problems.</p>	<p>UNDP, World Bank Publications.</p> <p>NITP Conference Papers.</p>
6-7	<p>5.0 The Need for Conservation of Rural Resources</p> <p>5.1 Define conservation.</p> <p>5.2 Outline the main objectives of good conservation.</p> <p>5.3 Identify rural resources that are not properly utilized.</p> <p>5.4 Indicate ways and means of conserving rural resources – human land, wildlife and water bodies.</p> <p>5.5 Formulate policies for conserving rural resources in the state of operation.</p>	<p>i. Define and outline main objectives of (good) conservation.</p> <p>ii. State under-utilised rural resources and present the ways and means of conserving rural resources (human, land, wildlife, water bodies).</p> <p>iii. Guide students to formulate policies for conserving rural resources in their area of operation.</p>	<p>UNDP Publications.</p> <p>NITP Conference Papers.</p>
8-9	<p>6.0 The Importance of Rural Planning in National and Regional Policies</p> <p>6.1 Describe the role of rural economy in the national development plan.</p> <p>6.2 Determine the importance of public infrastructure in rural area.</p> <p>6.3 Explain the importance of rural planning in rural development.</p> <p>6.4 Formulate rural development policies in your state of operation.</p>	<p>i. Discuss the role of rural economy in national development planning, the importance of public infrastructure in rural area as well as the importance of rural planning in rural development.</p> <p>ii. Assess existing rural settlement planning and community development.</p> <p>iii. Work out appropriate strategies for rural development in Nigeria.</p>	<p>UNDP Publications.</p> <p>Seminar Papers.</p>

<p>10</p>	<p>7.0 Rural Development strategies 7.1 Outline rural development strategies in Nigeria, past and present. 7.2 Review the main strategies in current rural development practice. 7.3 Formulate appropriate strategies for rural development in Nigeria.</p>	<p>Lecture on past and present rural development strategies. Guide students to review main strategies of current rural development practice and to formulate more appropriate strategies for rural development in Nigeria. Discuss methods of community development and propose methods of mobilizing people for rural development.</p>	<p>World Bank, UNDP Publications.</p>
<p>11-12</p>	<p>8.0 The Importance of Community Efforts in Rural development Planning in Nigeria 8.1 Describe different methods of community development effort. 8.2 Propose method of mobilizing people for development of rural areas. 8.3 Carryout case studies on selected topics.</p>	<p>i. Students to carryout case studies on selected topics and undertake educational filed. ii. Visit to important historical villages/places to witness live community development activities.</p>	<p>Vehicles, Cameras, Notebooks etc.</p>

NATIONAL BOARD FOR TECHNICAL EDUCATION, KADUNA

PROGRAMME: HIGHER NATIONAL DIPLOMA IN URBAN AND REGIONAL PLANNING.			
COURSE: RESEARCH TECHNIQUES IN PLANNING		Course Code: URP 323	Contact Hours: 1-0-3
Course Specification:			
Theoretical Content:			
Week	General Objective: Enable students apply research techniques in solving planning problems.		
	Special Learning Objective	Teachers Activities	Learning Resources
1	<p>1.0 Purpose of Research</p> <p>1.1 Explain the importance of research in planning.</p> <p>1.2 Define research and research methodology.</p> <p>1.3 Explain the characteristics of research.</p>	<p>i. Define and explain research, its characteristics and importance in planning.</p> <p>ii. State and explain research methodology.</p>	<p>Relevant textbooks, journals, other forms of published and unpublished documentaries on sound research.</p>
2- 3	<p>2.0 Planning Problems</p> <p>2.1 Define a problem.</p> <p>2.2 Distinguish between the types of problems.</p> <p>2.3 Conceptualize a planning problem.</p> <p>2.4 Explain hypothesis.</p> <p>2.5 Formulate hypothesis</p> <p>2.6 Relate a main problem of research to its sub-problems or component parts.</p>	<p>i. Define a 'problem', differentiate between types of problems and let students conceptualize a planning problem.</p> <p>ii. Explain the relationship of a main research problem to its sub-problems.</p>	<p>Books on Research writing.</p> <p>Planning Textbooks.</p>

<p>4-5</p>	<p>3.0 Relationship Between Research Methodology, Data and Problem. 3.1 Define research methodology. 3.2 Differentiate among the research methods (Historical, Descriptive Survey, Analytical Survey and the Experiment methods). 1.1 Relate data and methodology as interdependent elements. 1.2 Define data. 1.3 Discuss types of data e.g. primary and secondary 1.4 State the criteria for data validity. 1.5 Design the method of data collection. 1.6 Collect and check data. 1.7 Analyse the data.</p>	<p>i. Define research methodology and explain the different research methods. ii. Lecture on the meaning of data, types of data and the interdependency of data and methodology</p>	<p>Conference Papers on Research.</p>
<p>6-7</p>	<p>4.0 Sampling Methods 4.1 Define sampling. 4.2 Explain sampling 4.3 Identify various sampling techniques. 4.4 Analyse the effect of sample on validity of result.</p>	<p>i. Give students assignments. ii. Define and explain sampling, sampling techniques and analyse the effect of sample on validity of result.</p>	

<p>8-9</p>	<p>5.0 Procedure for Writing Research</p> <p>5.1 Define research proposals. 5.2 Identify the characteristics of a research proposal. 5.3 Outline the contents and organisation of research proposal. 5.4 Make research proposals for a given work.</p>	<ul style="list-style-type: none"> - Define and explain research proposals, characteristics of a research proposal and the contents and organisation of research proposal. - Work out a sample of research proposal for a selected area. 	<p>Books on writing proposals.</p>
<p>10-12</p>	<p>6.0 Procedure for Writing Research Report.</p> <p>6.1 Define clearly the parts of the report. 6.2 Acquaint students with research problem. 6.3 Review related literature. 6.4 State the hypothesis. 6.5 State clearly the methodology. 6.6 Produce data analysis and results. 6.7 Present summary of results, conclusions and recommendations. 6.8 Present the references and bibliographies. 6.9 Undertake selected planning topics and apply these techniques under supervision. 6.10 Present the research to audience.</p>	<ul style="list-style-type: none"> - Discuss the various parts of the report. - Revise how to define research problem, the review of related literature, formulation of hypothesis, research methodology and presentation of analysed data and results. - Teach students how to present summary of findings, conclusions and recommendations and how to write and present references and bibliographies. - Give students assignments on selected planning topics to apply the skills on techniques learnt and supervise them. - Students present their research to an audience and effect any necessary corrections 	<p>Cardboard and drawing papers, writing/drawing pins/pencils, display board etc.</p>

NATIONAL BOARD FOR TECHNICAL EDUCATION, KADUNA

PROGRAMME: HIGHER NATIONAL DIPLOMA IN URBAN AND REGIONAL PLANNING.			
COURSE: URBAN MANAGEMENT		Course Code: URP 325	Contact Hours: 2-0-0
Course Specification:			
Theoretical Content:			
Week	General Objective: Equip the students with knowledge of Urban Management issues/procedure		
	Special Learning Objective	Teachers Activities	Learning Resources
1	<p>1.0 Management Concept</p> <p>1.1 Define management.</p> <p>1.2 State the functions of management e.g. planning, forecasting, organising, co-ordinating, etc.</p> <p>1.3 Apply the concept to urban and regional planning e.g. organising a planning office, dissemination of planning information, managing an urban problem.</p>	<p>i. Define management and explain functions of management e.g. planning, forecasting, and organising, coordinating etc.</p>	<p>Urban Planning Textbooks.</p> <p>Conference Papers of NITP.</p>
2-4	<p>2.0 Organisation Theory</p> <p>2.1 Explain the theory of organisation.</p> <p>2.2 Explain the socio-psychological, economic and legal basis of organisation.</p> <p>2.3 Identify various forms of human organisation in urban areas in your area of operation.</p>	<p>i. State and explain the theory of organisation as well as the socio psychological, economic and legal basis for organisation.</p> <p>ii. Outline the various forms of human organisations in operation in urban areas.</p> <p>▪ Make students know how to apply the concept of management to urban and regional planning, (e.g. organising a planning office, managing an urban problem etc</p>	

<p>5-7</p>	<p>3.0 Understand and know the process of urban governance</p>	<p>Define urban governance, list the levels and explain their functions.</p> <p>Discuss the structure of urban government processes, problems of managing urban growth and the nature of urban government finance.</p> <p>Lecture on the relationship of urban government, private sector and community organisations.</p> <p>Appraise the effectiveness or otherwise of an urban government and the consequences on the environment.</p>	
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<p>8-12</p>	<p>4.0 Understand and know urban management</p> <p>4.1 Define urban management.</p> <p>4.2 Explain the techniques of managing urban growth.</p> <p>4.3 Assess existing urban development and management policies in Nigeria.</p> <p>4.4 Identify the requirements for effective urban management.</p> <p>4.5 Explain nature and responsibilities of stakeholders in urban management.</p> <p>4.6 Explain the process of planning, implementation and management of urban infrastructures and services.</p> <p>4.7 Adopt urban management process to address an urban environmental problem (e.g. economic decline, solid waste, environmental deterioration street trading, and unemployment) in your area of operation.</p> <p>4.8 Explain the activities of the Urban Management Programme (UMP) an organ of the United Nation.</p>	<ul style="list-style-type: none"> • Teach the students what urban management is/means explain the techniques of managing urban growth. • Evaluate the existing urban development and management policies in Nigeria and highlight the requirements for effective urban management. • Lecture on the nature and responsibilities in urban management. • Discuss the process of planning, implementation and management of infrastructure and services. • Assessment: Student apply urban management process to address an urban environmental problem, e.g. solid waste, in a given area (supervised) . • State and explain the activities of the U. N. Urban Management Problem. 	<p>NITP Conference Papers.</p> <p>UNDP, World Bank Publications.</p> <p>Prepared Case studies on Urban Management.</p>
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NATIONAL BOARD FOR TECHNICAL EDUCATION, KADUNA

PROGRAMME: HIGHER NATIONAL DIPLOMA IN URBAN & REGIONAL PLANNING.			
COURSE: STUDIO I VILLAGE DESIGN		Course Code: URP 327	Contact Hours: 7.0 H/W
Course Specification			
Theoretical Content			
Week	General Objective: UNDERSTAND HOW TO PREPARE VILLAGE PLANS		
	Special Learning Objective	Teachers Activities	Learning Resources
1-2	1.0 Selection of Study Area 1.1 Select a rural area with planning problems. 1.2 Undertake a reconnaissance survey of the area. 1.3 Enlist the cooperation of the community leaders.	i. Select identify appropriate site for the study. ii. Take a trip to the site iii. Hold meeting with Community.	Vehicle/Slide/Camera.
4-6	Formulation of Goal and Objectives 2.1 Set appropriate goal for the community based on needs and aspirations. 2.2 Formulate objectives that would lead to the realization of the set goal.	i. Lecture and meetings.	
7-8	3.0 Instruments for Survey 3.1 Prepare questionnaires or any other survey instruments for use. 3.2 Up-date the base map of the study area. 3.3 Collect planning data for the area. 4.0 Collation and Analysis 4.1 Use appropriate graphic and other methods to collate the results of the survey. 4.2 Analyze the data using appropriate methods. 4.3 Project the data for the target year.	i. Organize Critique sessions Guide students on the processes of collation and analysis.	Use of vehicles/maps and cameras. Board for presentation

<p>9-10</p>	<p>5.0 Solution to the problems 5.1 Summarize the problems of the area. 5.2 Redefine (if necessary) the goal in the light of survey results. 5.3 Generate alternatives proposals and policies for the study area. 5.4 Select one alternative for implementation through proper evaluation of the various proposals using appropriate evaluation techniques.</p>	<p>i. Lecturer to list possible problems to students.</p>	<p>Urban Planning Books and Conference Papers.</p>
<p>11-14</p>	<p>6.0 Strategies for Implementation 6.1 Identify factors that would help in the implementation of the proposal plan. 6.2 Prepare a phasing scheme for the plan. 6.3 Identify resource for implementation.</p> <p>7.0 Preparation and Presentation of the Report 7.1 Write the report. 7.2 Present the report individually or by group.</p>	<p>Supervise work.</p> <p>i. Supervise work.</p>	

NATIONAL BOARD FOR TECHNICAL EDUCATION, KADUNA

PROGRAMME: HIGHER NATIONAL DIPLOMA IN URBAN AND REGIONAL PLANNING.			
COURSE: PHOTOGRAPHY AND MODEL MAKING		Course Code: URP 320	Contact Hours: 2-3-3
Course Specification:			
Theoretical Content:			
Week	General Objective: Principles and Techniques of Photography, Modelling and their application to Urban and Regional Planning.	Special Learning Objective	Teachers Activities
			Learning Resources
1-3	<p>1.0 Photography</p> <p>1.1 Explain the principles and parts of camera.</p> <p>1.2 Identify different types of films used in camera.</p> <p>1.3 Handle and operate a camera.</p> <p>1.4 Undertake the loading of a camera.</p> <p>1.5 Explain the importance of light in photography.</p> <p>1.6 Undertake the following:</p> <p style="padding-left: 20px;">Develop films.</p> <p style="padding-left: 20px;">Printing, reducing and enlarging of photographs for both black and white colour.</p> <p>1.7 Operate plan-printing, Photostat, reneo-duplicating machines.</p> <p>1.8 Relate photography to Urban and Regional Planning.</p>	<p>i. Explain the principles of camera, demonstrate how to operate cameras of different types.</p> <p>ii. Demonstrate using real lifer examples.</p> <p>iii. Give assignments on: colour photography, black and white.</p> <p>iv. Arrange for class test.</p>	<p>Still life camera films.</p> <p>Different types of prints developers.</p> <p>Journals, textbooks and Handbooks.</p> <p>Slide/Films of Urban Area.</p>

<p>4-9</p>	<p>2.0 Modelling 2.1 State the importance of a model as: A persuader; A judge and A useful aid in preparation of a campus plan. 2.2 Outline the tools, materials and equipment used in model making. 2.3 State their uses. 2.4 Prepare a model of land form and terrain of various natures. 2.5 Make three-dimensional models of based objects from drawings and photographs. 2.6 Relate photograph to modeling practice. 2.7 Carryout selected topics on photography and model making under supervision. 2.8 Present the work to audience for critique.</p>	<p>i. Explain the need for a model, and the various equipment and materials used for model making. ii. Demonstrate the procedure. iii. Arrange joint exercises. iv. Give assignment.</p>	<p>An already made model. Consumable model. Materials. Equipment. Books, journals etc.</p>
<p>10-12</p>	<p>3.0 Safety Measures and Maintenance 3.1 Explain safety measure in the handling of the various photography and modeling. 3.2 Take precautionary measures in the storage for and maintenance of the various equipment.</p>	<p>Demonstrate some safety measures in equipment handling. Demonstrate how to maintain equipment and storage methodologies. Arrange and superior class demonstration by the students. Arrange for class test.</p>	<p>i. All equipment indicated in 1.0 and 2.0 above. ii. Manuals of relevant equipment.</p>

NATIONAL BOARD FOR TECHNICAL EDUCATION, KADUNA

PROGRAMME: HIGHER NATIONAL DIPLOMA IN URBAN AND REGIONAL PLANNING.			
COURSE: LANDSCAPE PLANNING		Course Code: URP 322	Contact Hours: 1-3-2
Course Specification:			
Theoretical Content:			
Week	General Objective: Application of landscape Concepts in Physical Planning.	Teachers Activities	Learning Resources
1	Special Learning Objective 1.0 Scope of Landscape Planning 1.1 Define landscape planning. 1.2 Explain the scope of landscape planning. 1.3 Explain the relationship between physical planning, landscape planning and landscape architecture. 1.4 Evaluate their impact on planning practice.	Explain landscape planning. Relate it to landscape architecture and physical planning. Discuss its impact on planning practice.	Books on landscape planning and relevant journals.
2-3	2.0 History and Evaluation of Landscape 2.1 Review the historical development of garden forms in Babylon, Egypt, Persia, the European countries and colonial America (California and Mexico). 2.2 Review the practice of landscape planning in Nigeria (Oyo, Sokoto, Borno, Benin, Opobo, etc) using each of them as a case study. 2.3 Relate the form of landscaping to the culture of the people.	i. Explain landscape practices in the various ages. ii. Bring out the basic peculiarities. iii. Expose how culture has been expressed in different landscapes. iv. Lecturer to organize field trip on notable lands capes. v. Give assignment to present landscapes of towns other than students place of origin.	Slides of the different landscapes, projectors, screens video tapes, diskettes coloured T.V stabilizer. Down loaded materials form Internet. Buses and Cars.
4-5	3.0 Open Spaces 3.1 Explain the types and forms of open spaces. 3.2 Trace the historical development of open spaces in Nigeria. 3.3 Explain the intrical patterns of open space system and objectives 3.4 Set goals for open space design. 3.5 apply the standards in open space design. 3.6 Design open, enclosure and out door spaces in your state of operation	Explain open spaces in terms of types, forms and antecedents. Explain how open space standards are set. The Lecturer should organize a guided trip on selected open spaces.	Typical standards on open spaces or other relevant matter. Visit to open spaces in your areas of operation should encouraged. Film/slides of a typical open space. Drawing instruments and colours.

<p>6</p>	<p>4.0 Landscape Elements 4.1 Define landscape elements. 4.2 Classify them into divisions. 4.3 Indicate the importance of each element in landscape planning. 4.4 Apply each element to planning practice.</p> <p>5.0 Landscape Planning Process 5.1 Explain the landscape planning process. 5.2 Apply the stages of landscape planning process –survey, evaluation/synthesis/assessment; policy making/solution guidelines, planning solution, site planning, implementation and maintenance to hypothetical landscape planning project. 5.3 Chart the various stage in the landscape planning process.</p>	<p>i. Explain landscape elements, classify them and relate each to planning practice. ii. Present them visually to class.</p> <p>Explain the landscape planning process, relate it to planning process. Highlight and discuss each of the stages. Highlight and discuss each of the stages.</p>	<p>Same as III above.</p> <p>Books, relevant journals, etc Drawing equipment ad colours</p>
<p>7-8</p>	<p>6.0 Materials for Landscape Design and Planning 6.1 Describe the elements/materials of landscape design. 6.2 Explain the functions of each element/material. 6.3 Select appropriate elements in typical landscape design. 6.4 Describe the use of each element/material in land. 6.5 Apply the elements/material in a typical design..</p> <p>7.0 The Design and Plans of Urban Landscape 7.1 Comments critically on sides of a typical landscape design. 7.2 Review selected landscape design projects. 7.3 Formulate alternatives in the landscape designs. 7.4 Design of landscape plan of an area in state of operation. 7.5 Prepare and present a report on the diagram.</p> <p>Field Trips 7.6 Undertake visits to parks, recreational centres, courtyards, squares, etc, appreciate their set-up. 7.7 Carry out a graded exercise in selected landscape design topics</p>	<p>i. Lecturer to identify and present landscape materials. ii. Explain their application in a typical landscape design. iii. Give assignment to prepare a landscape design for a chosen site.</p> <p>Attempt a critique of landscape designs. Explain how alternative design project are carried out. Give assignment on landscape design of an area.</p>	<p>Slides/Films landscape areas</p> <p>As in 2.0 above</p> <p>Journals, books and reports. Drawing equipments.</p>
<p>9-10</p>		<p>i. Explain the feature of parts, recreational, centres, city squares etc.</p>	<p>Sketch Books and Cameras</p>
<p>37</p>			

NATIONAL BOARD FOR TECHNICAL EDUCATION, KADUNA

PROGRAMME: HIGHER NATIONAL DIPLOMA IN URBAN AND REGIONAL PLANNING.			
COURSE: REGIONAL PLANNING I		Course Code: URP 324	Contact Hours: 1-3-2
Course Specification:			
Theoretical Content:			
Week	General Objective: Concepts of Region, Regional growth and Development.		
	Special Learning Objective	Teachers Activities	Learning Resources
1-3	<p>1.0 Regional Concept</p> <p>1.1 Define a region.</p> <p>1.2 Emulate different ways of dividing an area into regions.</p> <p>1.3 Relate it to the Nigerian concept.</p> <p>1.4 State the rationale for regional planning.</p> <p>1.5 Differentiate between inter and intra-regional planning and development.</p> <p>1.6 Relate the concept to the area of operation.</p>	<p>i. Explain the meaning of a region and relate to the different regions available.</p> <p>ii. Relate regional planning to development.</p>	<p>Books, relevant journals and regional plans and reports.</p>
4-5	<p>2.0 The Regional Planning Process</p> <p>2.1 State the aims and objectives of regional planning.</p> <p>2.2 Determine the various steps in regional planning process.</p> <p>2.3 Produce a chart of the steps.</p> <p>2.4 Explain the contents of the various steps in the planning process.</p> <p>2.5 Evaluate the various steps in regional planning process.</p>	<p>i. Discuss regional planning and its processes.</p> <p>ii. Present the steps in regional planning.</p>	<p>Books, relevant journals and regional plans and reports.</p>

<p>6-8</p>	<p>3.0 Delineation Techniques</p> <p>3.1 Explain delineation techniques.</p> <p>3.2 Use analytical and graphic methods to delineate a region.</p> <p>3.3 Develop a chart for the methods.</p> <p>3.4 Apply mathematical approach to illustrate the methods.</p> <p>3.5 Produce worked examples.</p>	<p>i. Explain delineation techniques.</p> <p>ii. Delineate regions using mathematical approach.</p> <p>iii. Give assignments on worked examples.</p> <p>iv. Arrange for class test.</p>	<p>Lap-top, projector, Video clips of major economic and climate regions in Nigeria.</p>
<p>9-10</p>	<p>4.0 Theories of Regional Growth</p> <p>4.1 Explain the base theory.</p> <p>4.2 Differentiate between basic and non-basic activities.</p> <p>4.3 Relate the concept to regional planning concept.</p> <p>4.4 Explain the concept of growth pole model of regional change.</p> <p>4.5 Review the application of this model in regional planning.</p> <p>4.6 Relate the concept of inter-regional flows of resources to regional development.</p>	<p>i. Explain theories of growth and differentiate between them.</p> <p>ii. Discuss growth pole model and apply it to regional planning.</p> <p>iii. Lecturer to explain resources, categories them and relate such to regional development.</p>	<p>UNDP and World Bank Publication.</p>

<p>11-12</p>	<p>5.0 Regional Policies and Strategies</p> <p>5.1 Describe the regional development policies and strategies of selected countries: Tanzania, Venezuela, Canada, etc.</p> <p>5.2 Interpret the various policies applied in the countries.</p> <p>5.3 Formulate regional development policies in your state of operation.</p> <p>5.4 Carry out a case study of selected topics in regional planning under supervision.</p>	<p>Lecturer should do a comparative study of selected countries from Europe, America, Asia, Soviet and Latin America.</p>	<p>Zip Diskettes, Video clips, Television sets, plans and reports.</p>
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NATIONAL BOARD FOR TECHNICAL EDUCATION, KADUNA

PROGRAMME: HIGHER NATIONAL DIPLOMA IN URBAN AND REGIONAL PLANNING.			
COURSE: TRANSPORTATION PLANNING II		Course Code: URP 326	Contact Hours: 1-3-2
Course Specification:			
Theoretical Content:			
General Objective: Principles of Transport and traffic studies as they affect physical planning			
Week	Special Learning Objective	Teachers Activities	Learning Resources
1	<p>1.0 Transport Planning Process</p> <p>1.1 Enumerate the various steps in the transport planning process.</p> <p>1.2 Describe the cyclic nature of the steps.</p> <p>1.3 Chart the various steps.</p> <p>1.4 Interpret the existing and future transport planning process.</p> <p>1.5 Propose one process in your area of operation.</p>	<p>Lecturer to explain transport planning process and propose one for discussion.</p>	<p>Books, Journals and transport reports.</p>
2-3	<p>2.0 Collecting Data for Transport Planning Purposes.</p> <p>2.1 Define the study area.</p> <p>2.2 Determine the type of data necessary for collection e.g. (origin and destination, trip generation etc.).</p> <p>2.3 Undertake traffic count of specific area.</p> <p>2.4 Record the counts collected, and analyse them.</p>	<p>i. Lecturer should define study area and determine the types of data to collect.</p>	<p>Vehicles, automatic vehicle counters; coveralls and helmets.</p>

	<p>2.5 Carry out a study related to speed and delays in traffic.</p> <p>2.6 Carry out a study of traffic flow.</p> <p>2.7 Chart the traffic flow in your area of operation.</p> <p>3.0 The Various Trips</p> <p>3.1 Explain each of the terminologies related to trips.</p> <p>3.2 Collect data relating to these aspects of trip making.</p> <p>3.3 Analyse and interpret data relating to them.</p> <p>3.4 Relate these to land use in urban and rural setting.</p> <p>3.5 Record data of trips counted in your area of operation.</p> <p>4.0 Causes of Accidents and Safety Issues</p> <p>4.1 Explain the factors responsible for causing accident.</p> <p>4.2 Explain the concept of traffic segregation and other methods of averting accidents.</p> <p>4.3 Conduct the necessary survey on traffic accident.</p>	<p>Give field assignment on traffic and socio-economic characteristics of the trip makers.</p> <p>i. Explain trips, collect, analyse and interpret data relating to them.</p> <p>i. Explain the meaning of accident causal factors, concepts of segregation and safety matters.</p> <p>ii. Give assignment on accident studies. Obtain reports.</p>	<p>Computer sets, Diskettes, SPSS Software Books, Journals</p> <p>Accident, data report sheets. Camera, films vehicle.</p>
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	<p>4.4 Record the survey report.</p> <p>4.5 Propose solutions for accidents/safety on our roads.</p> <p>5.0 Data Bank</p> <p>5.1 Define data bank.</p> <p>5.2 State the importance of transportation data bank.</p> <p>5.3 Outline the types of data suitable for banking.</p> <p>5.4 Apply the suitable storage and retrieving systems.</p> <p>5.5 Undertake selected topics in transportation planning and apply the techniques under supervision.</p> <p>6.0 Functional Classification of Urban and Rural Road</p> <p>6.1 Define the “Environmental Area” concept.</p> <p>6.2 Outline the role of environmental area in the functional classification of urban and rural roads.</p> <p>6.3 Explain the various ways of classifying the hierarchy of roads.</p> <p>6.4 Prepare a layout of urban and rural roads.</p>	<p>i. Explain the term data bank, the issues involved and discuss the procedures involved in establishing one.</p> <p>ii. Give assignment on creating a data bank.</p> <p>i. Lecturer should classify roads; explain the concept of environmental area.</p> <p>ii. Organise field trips.</p> <p>iii. Give assignment on layout of urban and rural roads.</p>	<p>Books, Journals etc.</p> <p>Vehicles, camera and Video Camera, drawing papers.</p>
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NATIONAL BOARD FOR TECHNICAL EDUCATION, KADUNA

PROGRAMME: HIGHER NATIONAL DIPLOMA IN URBAN AND REGIONAL PLANNING			
COURSE: TOURISM & RECREATIONAL PLANNING		Course Code: URP 328	Contact Hours: 1-3-2
Course Specification			
Theoretical Content			
WEEK	General Objective: Know the Nature and Historical Development of Tourism		
	Special Learning Objective	Teachers Activities	Learning Resources
1-2	<p>1.0 Nature and Historical Development of Tourism</p> <p>1.1 Define Tourism</p> <p>1.2 Explain the nature of Tourism</p> <p>1.3 Enumerate the determinants and motivation of tourism</p> <p>1.4 List resort centres in Nigeria</p> <p>1.5 Trace the historical trend of tourism in Nigeria</p> <p>1.6 Compare the tourism development in Nigeria compared with selected African countries (e.g. Kenya, Ghana, South Africa, etc.)</p> <p>1.7 Explain the significance of tourism in National development.</p>	<p>i) Explain tourism, nature determinants antecedents and significance in National development</p> <p>ii) Lecturer should do a comparative study of some Africa States.</p>	Books, Journals and Internet documents

3 - 4	<p>2.0 Principles of Planning and Development of Tourism</p> <p>2.1 Outline the elements required for Tourism Planning</p> <p>2.2 Relate leisure and resources.</p> <p>2.3 Assess tourism demand and supply.</p> <p>2.4 Explain the need for basic infrastructure and facilities for tourism.</p> <p>2.5 Explain the procedure of conservation and management in tourism</p> <p>2.6 Explain both environmental planning and regional planning considerations in tourism planning.</p> <p>2.7 Describe the tourism planning process.</p>	<p>i) Explain the principles of planning and development of tourism.</p> <p>ii) Discuss leisure, resources conservation and tourism planning process</p>	<p>UNDP, World Bank Publications on Tourism.</p> <p>NITP Conference Papers, Federal Ministry of Culture and Tourism Hand book</p>
5-6	<p>3.0 Organization and Finance in Tourism</p> <p>3.1 Explain the need for organization in tourism</p> <p>3.2 Explain the requirements for finance in tourism.</p> <p>3.3 Identify sources of finance for tourism.</p> <p>3.4 Analyze the roles of public and private finance in tourism.</p> <p>3.5 Describe marketing concept in tourism.</p>	<p>i) Explain tourism organization and finance structure.</p>	<p>Books, journals</p>

<p>7 - 9</p> <p>10-12</p>	<p>Tourism Development in Nigeria</p> <p>4.1 Explain the need for tourism development in Nigeria.</p> <p>4.2 Identify the various tourism attractions in Nigeria</p> <p>4.3 Determine the role of both the public and private sectors in tourism development in Nigeria.</p> <p>Principles of Recreational Planning and Development</p> <p>5.1 Define recreation. Explain the purpose of recreation. Identify types of recreation facilities. Differentiate between tourism and recreational facilities and their importance. Describe each of the following:</p> <p>(a) Park way (b) Forest reserve area (c) National monument (d) Historical site (e) National cemetery (f) Game reserve</p> <p>Differentiate between out door and in door recreational facilities. Develop proposal for the development of each facility in your state of operation.</p> <p>Field Trip</p> <p>5.8 Undertake visit to Historical site, game reserve, etc. so as to appreciate their set-up</p>	<p>i) Explain the need for tourism.</p> <p>ii) Arrange field trips to various tourist attractions in Nigeria.</p> <p>i) Explain recreation and differentiate between recreation and tourism.</p> <p>ii) Develop a guideline for the development of each facility in a state.</p> <p>iii) Arrange field trips to recreation sites</p>	<p>Vehicles, camera, video, tapes, TV sets.</p> <p>UNDP, World Bank Publications.</p> <p>Films/studios of typed recreational area of local/foreign USAID British Council etc.</p>
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PROGRAMME: HIGHER NATIONAL DIPLOMA IN URBAN AND REGIONAL PLANNING			
COURSE: STUDIO II: URBAN DESIGN		Course Code: URP 330	Contact Hours: 1-6-3
Course Specification			
Theoretical Content			
Week	General Objective: Relationship between the element or the building design of the environment.		
	Special Learning Objective	Teachers Activities	Learning Resources
1 - 2	<p>Site Selection and Analysis Explain the process of site selection. Explain activities involved in site analysis. Relate site analysis to design needs.</p>	Lecturer to assist in site selection.	Vehicles, base maps.
3 - 5	<p>The Relationship Between Space and Structures Explain the concept of space and location of structures within spaces. Illustrate the concept of harmony in the use of space. Explain the concept of aesthetics in space structure relationship. Design the following as examples of urban ensembles. (i) the city centre (ii) a housing estate.</p>	<p>Explain the concept of space, structures and aesthetics. Give assignment to design city centre and housing estate. Arrange field trip.</p>	<p>Books and relevant journals. Slides of a typical city centre and Housing Estate. FMWH Housing Reports.</p>

6 - 10	<p>Design Composition Explain the concept of solid and voids in design. Illustrate the shaping of an urban through inter-play of fixed urban components. Explain circulation patterns in relation to space. Illustrate improvement of townscape by use of design schemes, street, furniture, etc. Design urban sub-system: i) Residential ii) Commercial iii) Recreational, and iv) Industrial areas, etc. Interpret the various elements in 3.5 above for critique.</p>	<p>Explain design composition, circulation and schemes. Give assignment in the design of urban sub system. Use above to prepare a model for critique.</p>	<p>Lap top, projector and screen. Drawing Boards with appropriate materials and equipment.</p>
11-12	<p>Report of the Design Prepare a report for the design. Present report of the design for critique.</p>	<p>i) Give assignment on report writing for the design in 3.0.</p>	<p>Display Boards.</p>

PROGRAMME: HIGHER NATIONAL DIPLOMA IN URBAN AND REGIONAL PLANNING.			
COURSE: RESEARCH TECHNIQUES IN PLANNING		Course Code: URP 323	Contact Hours: 1-0-3
Course Specification:			
Theoretical Content:			
General Objective: Enable students apply research techniques in solving planning problems.			
Week	Special Learning Objective	Teachers Activities	Learning Resources
1	1.0 Purpose of Research 1.1 Explain the importance of research in planning. 1.2 Define research and research methodology. 1.3 Explain the characteristics of research.	i. Define and explain research, its characteristics and importance in planning. ii. State and explain research methodology.	Relevant textbooks, journals, other forms of published and unpublished documentaries on sound research.
2- 3	2.0 Planning Problems 2.1 Define a problem. 2.2 Distinguish between the types of problems. 2.3 Conceptualize a planning problem. 2.4 Explain hypothesis. 2.5 Formulate hypothesis 2.6 Relate a main problem of research to its sub-problems or component parts.	i. Define a 'problem', differentiate between types of problems and let students conceptualize a planning problem. ii. Explain the relationship of a main research problem to its sub-problems.	Books on Research writing. Planning Textbooks.

<p>4-5</p>	<p>3.0 Relationship Between Research Methodology, Data and Problem. 3.1 Define research methodology. 3.2 Differentiate among the research methods (Historical, Descriptive Survey, Analytical Survey and the Experiment methods). 3.3 Relate data and methodology as interdependent elements. 3.4 Define data. 3.5 Discuss types of data e.g. primary and secondary 3.6 State the criteria for data validity. 3.7 Design the method of data collection. 3.8 Collect and check data. 3.9 Analyse the data.</p>	<p>i. Define research methodology and explain the different research methods. ii. Lecture on the meaning of data, types of data and the interdependency of data and methodology</p>	<p>Conference Papers on Research.</p>
<p>6-7</p>	<p>4.0 Sampling Methods 4.1 Define sampling. 4.2 Explain sampling 4.3 Identify various sampling techniques. 4.4 Analyse the effect of sample on validity of result.</p>	<p>i. Give students assignments. ii. Define and explain sampling, sampling techniques and analyse the effect of sample on validity of result.</p>	

NATIONAL BOARD FOR TECHNICAL EDUCATION, KADUNA

PROGRAMME: HIGHER NATIONAL DIPLOMA IN URBAN AND REGIONAL PLANNING			
COURSE: Principles of Management		Course Code: URP 420	Contact Hours: 2- 0 -0
Course Specification: Theoretical Content:			
Week	General Objective: Provide students with understanding of Management Processes.		
	Special Learning Objective	Teachers Activities	Learning Resources
1-3	<p>Management Concept Define management State the functions of management e.g. planning, fore-casting, organizing, co-ordinating, etc. Apply the concept to planning.</p>	<p>i. Explain the concept of management and its relevance to contemporary society. ii. Give students assignment on the relevance of management to urban planning practice.</p>	<p>Relevant textbooks, journals, periodicals, other reading materials.</p>
4-6	<p>Organizational Theory Explain the theory of organization. Explain the psychological legal basis of organization Explain the legal basis of organization. Cite relevant cases in your state of operation.</p>	<p>i. Identify and explain functions and structures of organizations including NGOs. ii. Organise visits to some organizations in the locality.</p>	<p>Vehicles, register of companies/organizations, camera, interview guide.</p>
7-9	<p>Motivation Industry Use guidance, supervision and leadership to discuss motivation in industry. Explain the hierarchy of authority and channels of communication in an organization. Evaluate the process of co-ordination in an organization. 3.4 Determine how to solve coordination problem in a planning set-up.</p>	<p>i. Use case studies to explain hierarchy of authority and Channels of communication in organizations. ii. Assign students to find out how planning establishments are coordinated in the locality.</p>	<p>Vehicles, stationery items, interview guides.</p>

	<p>Management Concept in Planning.</p> <p>Apply knowledge of management in organizing a planning office.</p> <p>Explain how the channels of communication available may be used to disseminate planning information.</p> <p>Explain how these same channels may be used for the management of urban problems.</p> <p>Cite management cases related to planning.</p>	<p>Explain channels, communication, and information dissemination in a planning office.</p> <p>Organize case studies on application of management concepts to solve planning problems.</p> <p>Conduct class test to assess students' understanding of the concept and its application.</p>	<p>Vehicles, stationery items, interview guides.</p> <p>Stationary items.</p>
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<p>8-9</p>	<p>2.0 Procedure for Writing Research</p> <p>2.1 Define research proposals. 2.2 Identify the characteristics of a research proposal. 2.3 Outline the contents and organisation of research proposal. 2.4 Make research proposals for a given work.</p>	<ul style="list-style-type: none"> - Define and explain research proposals, characteristics of a research proposal and the contents and organisation of research proposal. - Work out a sample of research proposal for a selected area. 	<p>Books on writing proposals.</p>
<p>10-12</p>	<p>3.0 Procedure for Writing Research Report.</p> <p>3.1 Define clearly the parts of the report. 3.2 Acquaint students with research problem. 3.3 Review related literature. 3.4 State the hypothesis. 3.5 State clearly the methodology. 3.6 Produce data analysis and results. 3.7 Present summary of results, conclusions and recommendations. 3.8 Present the references and bibliographies. 3.9 Undertake selected planning topics and apply these techniques under supervision. 3.10 Present the research to audience.</p>	<ul style="list-style-type: none"> - Discuss the various parts of the report. - Revise how to define research problem, the review of related literature, formulation of hypothesis, research methodology and presentation of analysed data and results. - Teach students how to present summary of findings, conclusions and recommendations and how to write and present references and bibliographies. - Give students assignments on selected planning topics to apply the skills on techniques learnt and supervise them. - Students present their research to an audience and effect any necessary corrections 	<p>Cardboard and drawing papers, writing/drawing pins/pencils, display board etc.</p>

NATIONAL BOARD FOR TECHNICAL EDUCATION, KADUNA

PROGRAMME: HIGHER NATIONAL DIPLOMA IN URBAN AND REGIONAL PLANNING			
COURSE: PROJECT PLANNING AND EVALUATION		Course Code: 422	Contact Hours: 1-3
Course Specification:			
Theoretical Content:			
Week	General Objective: Equip students with the knowledge of project planning and evaluation.		
	Special Learning Objective	Teachers Activities	Learning Resources
1-5	1.0 Concept of Appraisal 1.1 Explain the traditional method of appraisal. 1.2 Explain the discounting techniques of appraisal. 1.3 Differentiate between Net Profit Value (NPV) and the rate of return techniques. 1.4 Differentiate between discount rate and the cost capital techniques. 1.5 Provide worked examples. 1.6 Explain input rationing. 1.7 Show risk and probability approaches to risk. 1.8 Undertake relevant exercises applying the concepts.	i. Explain concept of appraisal. ii. Differentiate between common appraisal techniques. iii. Students to undertake simulation exercises in the application of appraisal concept..	Relevant textbooks, journals, newsletters, reading materials. Calculators/computers.
7-12	2.0 Critical Path Analysis (CPA) 2.1 Explain the essential elements of critical path analysis (CPA) 2.2 Make graphical representation of events. 2.3 Prepare a drawing of network including the duration.	i. Explain the concept of critical path analysis. ii. State the analysis of network total float free and independent floats. iii. Demonstrate the application of CPA to projects.	Stationery items, calculators.

	<ul style="list-style-type: none">2.4 Calculate project time.2.5 Determine critical path.2.6 State the analysis of network, total float free and independent float.2.7 Carry out work on selected topics under supervision.2.8 Present work to audience.	<ul style="list-style-type: none">iv. Students to make graphic representation of events and present work to audience.	
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NATIONAL BOARD FOR TECHNICAL EDUCATION, KADUNA

PROGRAMME: HIGHER NATIONAL DIPLOMA IN URBAN AND REGIONAL PLANNING.			
COURSE: Urban Planning Law and Administration		Course Code: URP 424	Contact Hours: 1-1
Course Specification:			
Theoretical Content:			
General Objective: Acquaint students with development control Techniques and Mechanism.			
Week	Special Learning Objective	Teachers Activities	Learning Resources
1-2	<p>Meaning and Purpose of Development</p> <p>Define development control. State the significance of development control in regulating urban growth.</p>	<p>Explain the meaning, origin and significance of development control.</p>	<p>Relevant textbooks, journals, newsletters, field note and report.</p>
3-4	<p>The Problems Associated with Development Control.</p> <p>Outline the problems of controlling development in general. Relate these problems to local planning authorities. Discuss the legal provisions for controlling development in Nigeria. Outline the power of the federal, state and local governments planning authorities in controlling development. Suggest means of improving the enforcement of development control.</p>	<p>Identify the consequences of uncontrolled developments. Identify legal instruments available for development control activities. Identify agencies involved in development control and their functions.</p>	<p>Planning ordinances, decree, laws and edicts. Photographs, slides and slide projectors, layouts.</p>

<p>5-6</p>	<p>The Role of Various Organisations and Institutions in Controlling Development.</p> <p>Identify the various Organisations controlling development. State their functions. Outline the roles played by commercial, educational and religious organisations, the mass media's etc in controlling of development. Differentiate between private developers and public developers. Analyse the attitude of the private developers and public developers toward development control.</p>	<p>Assign students to identify illegal structures in their neighbourhoods and actions taken by development control agencies. Explain the role of private and public developers in development control activities.</p>	<p>Neighbourhood base maps, Register of approved plans, contravention records.</p>
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7-8	<p>Strategies of Controlling Development</p> <p>Define development plan. State the components of a development plan. Develop strategies for controlling development in your state of operation. Outline the relevance of development plans in physical planning. Apply strategies of controlling development including zoning, ordinance, subdivision regulations, building bye-laws.</p>	<p>Organise students' visits to planning agencies to find out strategies being employed to control development.</p>	<p>Vehicles for field trip, cameras and maps, plan records.</p>
9	<p>Implementation Procedures.</p> <p>Identify tools required for effective implementation of plans. Use the application of the various tools for realising plans.</p>	<p>i. Examine the relevance and effectiveness of various planning laws in Nigeria.</p>	<p>Planning ordinances, textbooks and journals.</p>

PROGRAMME: HIGHER NATIONAL DIPLOMA IN URBAN AND REGIONAL PLANNING.			
COURSE: PROFESSIONAL PRACTICE		Course Code: URP 426	Contact Hours: 2 - -
Course Specification:			
Theoretical Content:			
Week	Special Learning Objective	Teachers Activities	Learning Resources
1-3	<p>1.0 Evolution of Planning</p> <p>1.1 Trace the historical evolution of Urban and regional Planning (physical planning) from the middle of the 19th century to date.</p> <p>1.2 Explain the factors that led to the evolution of Urban and Regional Planning during the period.</p> <p>1.3 Relate how these factors have influenced planning in modern time.</p> <p>1.4 Carry out relevant case studies.</p> <p>Requirements for the practice of the profession.</p> <p>1.5 Explain urban and Regional Planning as a profession.</p> <p>1.6 State qualifications required to practice the profession.</p>	<p>i. Explain the historical evolution of Urban and Regional Planning in ancient and modern time.</p> <p>ii. Compare urban planning in both ancient and modern time using relevant examples.</p> <p>iii. Explain in details urban and regional planning profession.</p>	<p>Handbook of NITP/TOPREC.</p> <p>NITP Conference Papers.</p>

<p>4-6</p>	<p>1.7 Define the scope and limitations of the profession. 1.8 State the role of the politician in physical planning and its implications to the practice of the profession.</p> <p>2.0 The Responsibilities of Physical Planner.</p> <p>2.1 Define responsibilities of a physical planner. 2.2 State their limitations.</p>	<p>i. Assign students to compare urban and regional practice in Nigeria and foreign countries. ii. Explain the responsibilities and limitations of a physical planner.</p>	<p>Urban Planning Textbooks.</p>
<p>7-8</p>	<p>3.0 The Nature of Contract Documents.</p> <p>3.1 State the relationship between a planner and his clients. 3.2 Undertake tendering procedure. 3.3 Read the contents of contract documents. 3.4 Interpret contract procedures.</p>	<p>i. Explain significance and contents of contract documents. ii. Visit planning agency to demonstrate contract procedure. iii. Assign students to undertake preparation of contract documents for planning project.</p>	<p>Contract documents, relevant reading materials. Vehicle, relevant textbooks, stationery items.</p>
<p>9-12</p>	<p>4.0 The Techniques of Managing Physical Planning Offices</p> <p>4.1 Outline the different types of physical planning offices in public and private sectors of the economy. 4.2 Apply professional code of conducts in all planning activities.</p>	<p>i. Explain requirements for setting up physical planning offices. ii. Case studies of disputes between planners and clients and strategies for resolving them.</p>	<p>Vehicle, interview guide, code of conduct document, stationery items.</p>

	<ul style="list-style-type: none">4.3 Undertake the various types of services rendered by the physical planner.4.4 Calculate scale of professional fees.4.5 Settle disputes between the planner and his clients.4.6 Explain the nature of the competition in the profession.4.7 Assess to ownership of copy right.	<p>Explain the application of code by conduct in planning activities.</p>	<p>Calculators, prepared scale of fees from FMWH.</p>
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<p>10</p>	<p>Other Laws Related to urban and Regional Planning.</p> <p>Discuss the main provision of the land laws affecting Urban and Regional Planning. Discuss the main provision of the Land Laws. Relate these laws to planning issues, health codes etc. affecting Urban and Regional Planning.</p>	<p>- ditto -</p>	<p>Planning Law Books</p>
<p>11</p>	<p>The Local Government System and Its Relationship to Planning.</p> <p>Describe the local government system in operation in Nigeria. Evaluate the relationship between the system and the practice of Urban and Regional Planning.</p>	<p>Explain the role of local governments in urban and regional planning Visit local government offices.</p>	
<p>12</p>	<p>Office Organisation and Practice.</p> <p>Identify the main functions of planning organisation at local, state and federal levels as provided by law. Relate the various functions in 8.1 above to existing office organisation at the various levels. Evaluate critically the relationship between function and office organisation as in 8.1 and 8.2 above. Carry out case studies in selected topics under supervision.</p>	<p>Assign students to carryout case studies of private planning offices, local, state and federal planning offices in terms of their organisational structure and performances.</p>	<p>Vehicles, camera, GSM handsets, township maps, interview guides.</p>

NATIONAL BOARD FOR TECHNICAL EDUCATION, KADUNA

PROGRAM: Higher National Diploma In Urban and Regional Planning			
COURSE: Principles of Geo-informatics (GIS)		COURSE CODE: GIT 304	Contact Hours 1-3-0
COURSE SPECIFICATION:			
THEORETICAL CONTENT:			
Week	GENERAL OBJECTIVE: Expose Students to Basic Knowledge of Geo-informatics and its Application.		
	Special Learning Objective	Teachers Activities	Learning Resources
1-2	1.0 Historical Development of GIS 1.1 Describe the evolution of GIS apart from computer anoted map-DMS-GIS. 1.2 Explain the additional functions added from one phase to the other e.g. DMS + DBMS – GIS.	Explain the evolution of GIS from computer anoted map.	Computer hardware and soft ware packages, GPS, ordinance maps, textbooks, journals.
3-4	2.0 Components of GIS 2.1 List the components of a GIS. 2.2 Describe the relationship using the components.	i) Explain the relationship between the components of GIS.	Computer hardware and soft ware packages, GPS, ordinance maps, textbooks, journals.
5	3.0 Applications of GIS 3.1 List the main application of GIS s. 3.2 Describe the benefits of GIS in each application. 3.3 State the importance of GIS in the Built Environment studies.	Demonstrated the application of GIS to solve environmental problems. Give students assignment to use GIS to address a planning issue.	Digitized maps, computer system plus relevant software.
6	4.0 The Nature of Spatial Object 4.1 Explain the component of spatial object. 4.2 Explain the acquisition of each component. 4.3 Describe the storage of each component in the database.	i) Demonstrate the acquisition and storage of component of spatial objects.	Database, computer unit, relevant software

7	<p>5.0 Components of Database 5.1 List the components of a database. 5.2 Describe the use of each component. 5.3 Describe the relationship among the components.</p>	i) Explain the relationship among components of a database	Database, computer hardware and relevant software.
8-9	<p>6.0 The Arrangement of Data in the database 6.1 Describe data layer 6.2 Explain justification for storing data in layers. 6.3 Explain concept of data integration. 6.4 Compare data layer approach with data integration approach.</p>	<p>Explain Data layer and compare Data layer approach with data Integration Approach.</p> <p>Give assignment to students in data manipulation to solve Planning Problems.</p>	Data and relevant software including AutoCAD, Archi-cad, 3-D, Archly-view, and Corel draw.
10	<p>7.0 Subsystems of GIS 7.1 List the subsystems of a GIS. 7.2 Describe the function of each subsystem.</p>	Use relevant example to describe the Functions Of Subsystems Of A GIS.	
11-12	<p>8.0 Land Information System 8.1 Identify components of a Land Information System. 8.2 Differentiate between LIS and GIS. 8.3 Describe application of LIS. 8.4 Carry out relevant exercises related to Urban and regional planning.</p>	<p>Explain the components and use of Land Information System.</p> <p>Give students assignment to differentiate between LIS and GIS.</p> <p>Demonstrate with students the application of LIS to Urban Planning.</p> <p>Give students simple exercises.</p>	Land registration documents /records, computer system plus relevant software, vehicle, photographs, Digitized maps.

NATIONAL BOARD FOR TECHNICAL EDUCATION, KADUNA

PROGRAMME: HIGHER NATIONAL DIPLOMA IN URBAN AND REGIONAL PLANNING.			
COURSE: STUDIO IV: URBAN RENEWAL DESIGN		Course Code: URP 430	Contact Hours: 1-6
Course Specification:			
Theoretical Content:			
Week	General Objective: Provide students with the knowledge of slum improvement and urban revitalization.		
	Special Learning Objective	Teachers Activities	Learning Resources
1-3	<p>1.0 Principles of Urban Renewal</p> <p>1.1 Identify the criteria for urban renewal.</p> <p>1.2 Explain the concept of urban renewal in its practical terms in relation to the following:</p> <p style="padding-left: 40px;">(a) socio-cultural (b) political and economic forces that influence the chosen area and beyond rehabilitation, conservation and total clearance.</p> <p>1.3 Trace the evolution of urban renewal: its origin, and its development.</p>	<p>i. Explain the concept, origin, relevance and development of urban renewal.</p> <p>ii. Show practical examples of delighted neighbourhoods in the locality and elsewhere.</p>	Textbooks, journals, maps, photographs, slides, planning reports.
4-6	<p>2.0 Studies on Blighted Area</p> <p>2.1 Conduct Socio-economic, physical, and political survey of the selected area.</p> <p>2.2 Collate and analyse the data collected.</p> <p>2.3 Prepare alternative design proposals for improvement.</p> <p>2.4 Chosen alternative proposals will be presented individually.</p>	<p>i. Organise site visits to selected neighbourhoods to assess the level of blightedness.</p> <p>ii. Assign students to find out agencies responsible for improving blighted areas and efforts made.</p> <p>iii. Students to conduct socio-economic, physical and relevant survey of selected blighted areas for renewal/improvement.</p> <p>iv. Explain urban renewal strategies.</p>	<p>Vehicles, cameras, slide projectors, map layout plans.</p> <p>Stationery items, folders, vehicles, cameras, interview guides.</p>

7	<p>3.0 Techniques for Improvement</p> <p>3.1 Identify improvement techniques appropriate to the study area.</p> <p>3.2 Prepare a model of the design of urban renewal area for critique.</p>	<ul style="list-style-type: none"> i. Students to present urban renewal alternatives for the chosen blighted area. ii. Assist students to select the best renewal plan and write a report. iii. Assign students to prepare a model (3-dimensional) of the chosen plan. 	<p>Textbooks, journals, planning report/records, stationery items, drawing instruments/materials.</p> <p>Model-making materials, drawings and report.</p>
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NATIONAL BOARD FOR TECHNICAL EDUCATION, KADUNA

PROGRAMME: HIGHER NATIONAL DIPLOMA IN URBAN AND REGIONAL PLANNING.			
COURSE: PLANNING DISSERTATION		Course Code: URP 432	Contact Hours: 2-6
Course Specification:			
Theoretical Content:			
Week	General Objective: Provide students with ability to undertake independent research		
	Special Learning Objective	Teachers Activities	Learning Resources
1-2	<p>1.0 Purpose of Dissertation</p> <p>1.1 Explain what is meant by dissertation.</p> <p>1.2 Discuss the need for dissertation in the programme.</p>	<p>i. Explain the meaning and relevance of dissertation to urban and regional planning.</p> <p>ii. Present to students samples of planning dissertations.</p>	Relevant textbooks, journals, dissertations.
3-4	<p>2.0 Identification of Problem in Practice.</p> <p>2.1 Describe typical problem in practice.</p> <p>2.2 Explain the significance of solution to each problem.</p> <p>2.3 Outline what would be the recommendations and deductions.</p> <p>2.4 Choose Urban Planning problems/topics.</p>	<p>Organise site visits to identify planning problems and solutions.</p> <p>Assist students to develop dissertation topics.</p>	Vehicles, audio-visual aids relevant textbooks.

<p>5-8</p>	<p>3.0 Collection of Data</p> <p>3.1 State how to collect data. 3.2 Explain the use of data. 3.3 Determine the kind of analysis which such data can sustain. 3.4 Relate them to solving chosen planning problems.</p>	<p>i. Explain types of data, use and methods of collection. ii. Students to identify data relevant to their dissertations and the sources. iii. Explain data analysis and presentation. iv. Individual student to collect and analyse own data.</p>	<p>Statistical books, journals, Newsletters, question guides.</p> <p>Vehicles, Camera, slide projectors, computer and relevant statistical packages.</p>
<p>9-12</p>	<p>4.0 Dissertation</p> <p>4.1 Arrange the ideas in sequence. 4.2 Produce the completed work neatly. 4.3 Bind the work in a book form. 4.4 Present the dissertation individually to designated assessors.</p>	<p>i. Assist students to prepare and present draft write-up to the whole class. ii. Individuals to present final dissertation to designated assessors.</p>	<p>Draft and final dissertations. Display Board's for presentation.</p>

NATIONAL BOARD FOR TECHNICAL EDUCATION, KADUNA

PROGRAMME: HIGHER NATIONAL DIPLOMA IN URBAN AND REGIONAL PLANNING			
COURSE: Computer Application in Planning		Course Code: URP 411	Contact Hours: 1-0-3
Course Specification:			
Theoretical Content:			
General Objective: To enable students apply computing knowledge and skills to solve practical problems in urban planning.			
Week	Special Learning Objective	Teachers Activities	Learning Resources
1-2	<p>1.0 Data and Information</p> <p>1.1 Define data and information</p> <p>1.2 Outline the quality of goods data.</p> <p>1.3 Identify sources of data and information.</p> <p>1.4 Describe the concept of information technology.</p>	<p>Explain the basic essence of data and information, their relevance to planning.</p> <p>Identify sources of data and information, and the concept of information technology and the typologies.</p>	<p>Access to computer systems, planning softwares, relevant computer textbooks</p>
3-5	<p>2.0 Principles of Data Communication and Computer Network.</p> <p>2.1 Identify data transmission media.</p> <p>2.2 Describe Data transmission equipment.</p> <p>2.3 Explain Computer Network.</p> <p>2.4 Distinguish between local and wide area network – internet.</p> <p>2.5 Describe Network protocol and topology.</p>	<p>i. Explain data Communication and Computer network.</p> <p>ii. Take the students to the computer to practice and give assignments.</p>	<p>Dummy of planning, engineering and architectural softwares.</p>
6-7	<p>3.0 Concept of GIS</p> <p>3.1 Define Geographic Information System.</p> <p>3.2 Explain differences between GIS and other related systems.</p>	<p>Identify different types of softwares for planning.</p> <p>Explain the uses of the following planning software packages e.g. Archicad, Corel Draws, Auto Cad, 3D, Arc. GIS, PlaniCad, Home Architect, Idrisi etc.</p>	<p>Lecturer to teach this course must be a computer biased professional planner.</p>

<p>8-9</p>	<p>3.3 State types and structures of data in GIS. 3.4 Explain functional Elements of GIS i.e.</p> <ul style="list-style-type: none"> - Data acquisition - Pre-processing - Data management - Manipulation and analysis - Product Generation. 	<p>Apply each software to a planning project.</p>	<p>Each student must have access to a computer.</p>
<p>10-12</p>	<p>4.0 Project</p> <p>4.1 Identify a particular environmental or physical planning problem. 4.2 Conduct necessary field surveys. 4.3 Process the data with software. 4.4 Use the computer skills or knowledge acquired to prepare appropriate projections and models based on specific goal and objectives. 4.5 Write a report and present the report to audience under a supervisor.</p>	<p>Give assignment to students by identifying specific environmental/physical planning problem, let them conduct necessary field surveys and process the data on computer using planning software. Use planning software to present the results. Assessment of students skill in the formulation and use of planning soft wares, review of design processes</p>	<p>Field Survey Notebooks. Utility vehicles for fields survey, dummy software packages on the application software, relevant computer application and GIS textbooks</p>

NATIONAL BOARD FOR TECHNICAL EDUCATION, KADUNA

PROGRAMME: HIGHER NATIONAL DIPLOMA IN URBAN AND REGIONAL PLANNING			
COURSE: URBANIZATION		Course Code: URP 413	Contact Hours: 2-0-0
Course Specification:			
Theoretical Content:			
Week	General Objective: Provide the understanding of Urbanization and its consequences for physical planning		
	Special Learning Objective	Teachers Activities	Learning Resources
1-2	<p>1.0 Urbanization</p> <p>1.1 Define urbanization.</p> <p>1.2 Explain process of urbanization.</p> <p>1.3 Explain different types of urbanization e.g. Technology developed urbanization.</p> <p>1.4 Explain the role and function of urbanization in regional context.</p> <p>1.5 Explain the desirability of urbanization development.</p>	<p>i. Explain urbanization, urbanism and related concepts, the causes and the desirability</p>	<p>Relevant Urban Geography and Urban Planning textbooks, site seeing to specific urban centres.</p>
2-4	<p>2.0 Characteristics of Population</p> <p>2.1 Discuss the spatial effect of urbanization concentration.</p> <p>2.2 Discuss the spatial effect on urban size distribution.</p>	<p>i. Explain population patterns and its effects. Sight seeing of spatial effects of population distribution on a local scale.</p>	<p>Field trip/site visits</p>

5-6	<p>3.0 Consequences of Urbanization Globe</p> <p>3.1 List the consequences of urbanization period.</p> <p>3.2 Discuss urban problems as consequences of urbanization.</p> <p>3.3 Explain the spatial economic, social, political and environmental implications of this problem.</p>	<p>i. Identify and discuss urban problems as it relate to urbanization. Explain its implications in totality – social, economic, environmental etc.</p>	<p>UN, UNDP Word Bank Publications</p>
7-8	<p>4.0 Emergence and Trend of Urbanization in Nigeria.</p> <p>4.1 Describe urban structural growth in Nigeria.</p> <p>4.2 Determine the rural phenomena and the impact of the drift on the urban area.</p> <p>4.3 Evaluate the problems and prospects of urbanization in Nigeria.</p> <p>4.4 Carry out Case Studies in the state of operation using the factors.</p>	<p>i. Explain emergence and trends both locally and globally evaluate the problems and solutions.</p> <p>ii. Carry out special case studies, let students identify the problems evolve solutions that would involve cost implications, do a critique of their assignments.</p>	<p>Project vehicles for case studies survey of relevant urban development policies of State or Federal Governments</p>

<p>9-10</p>	<p>5.0 Urban Policies</p> <p>5.1 Discuss the element of National Urban develop policy.</p> <p>5.2 Enumerate policy history of Nigeria Urban Planning.</p> <p>5.3 Evaluate the various historical trends.</p> <p>5.4 Outline the role of the government at the Federal, State and Local level in urban planning.</p> <p>5.5 State the powers given to them at each level.</p> <p>5.6 Determine various strategies of urban and regional planning appropriate for developing countries and in Nigeria in particular.</p> <p>5.7 Appraise their limitations.</p> <p>5.8 Appraise urban policies in your state of operation.</p>	<p>i. Explain what are urban development policies, how they can be developed, policy history in Nigeria and evaluation of such policies.</p> <p>ii. Evolve urban development policies for specific case studies. Identify the roles and functions of individuals, local state and National Governments in the policy framework. Appraise any existing urban policy, in the students' or institutions state of operation.</p>	<p>Project vehicles for site visits, relevant urban development policy documents of Federal or State Government.</p>
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NATIONAL BOARD FOR TECHNICAL EDUCATION, KADUNA

PROGRAMME: HIGHER NATIONAL DIPLOMA IN URBAN AND REGIONAL PLANNING			
COURSE: Natural Resources and Environmental Planning		Course Code: URP 415	Contact Hours: 1-0-6
Course Specification: Theoretical Content:			
Week	General Objective: Impact on the students knowledge of Environmental Planning and Natural Resources Management issues		
1-2	Special Learning Objective	Teachers Activities	Learning Resources
3-4	<p>1.0 Natural Resources</p> <p>1.1 Define the term “natural resource”.</p> <p>1.2 Identify the main natural resources e.g. water, flora and fauna, surface land, minerals, rocks, etc.</p> <p>1.3 Analyse the potentials of each of the resources.</p> <p>1.4 Explain the usefulness of each of the natural resource in environmental planning and management.</p> <p>2.0 Resource Management</p> <p>2.1 Prepare natural inventories in your area of operation.</p> <p>2.2 Suggest innovations in natural resource utilization and conservation.</p> <p>2.3 Analyse the problems and constraints relating to development, utilization and conservation of natural resources.</p> <p>2.4 Identify sources of energy, its supply and demand.</p> <p>2.5 Describe the concepts of natural resource regions and resource frontier highlighting their problems and potentials.</p> <p>2.6 Carry out a case study in natural resource management.</p>	<p>i. Explain the concepts of Natural Resources, identify all types, analyse the potentials of each and their usefulness in environmental planning and management.</p> <p>i. Explain natural resources inventories, life span of natural resources, conservation of natural resources and their management.</p> <p>ii. Let students do inventories of natural resources in their state or environment, establish their usefulness, problems and management strategies.</p> <p>iii. Explain sources of energy, supply and demand, concepts of natural resource regions and frontiers and their problem.</p>	<p>Relevant Geography and Environmental Science textbooks,</p> <p>Site visits to areas where such natural resources exist; project vehicles.</p> <p>Project vehicles, field trip, relevant dummy on environmental planning processes and EIA procedures.</p>

<p>5-6</p>	<p>3.0 Environmental Planning and Management Approaches.</p> <p>3.1 Define environmental planning and management.</p> <p>3.2 Explain the scope and principles of environmental planning</p> <p>3.3 Identify environmental planning process.</p> <p>3.4 Apply the principles and process of environmental planning to address a specific environmental problem in any rural or urban settlement.</p>	<p>iv Carry out a case study in natural resource management</p> <p>i. Explain the scope, basic principles of environmental planning and management, Environmental Impact Assessment.</p>	<p>Environmental Planning Books UNDP, World Bank Reports.</p>
<p>7</p>	<p>4.0 Environmental Impact Assessment (EIA)</p> <p>4.1 Define Environmental Impact Assessment.</p> <p>4.2 Explain its objectives, scope and process.</p> <p>4.3 Describe the strategies for assessment.</p> <p>4.4 Outline standard procedure and format for the preparation and presentation of such assessment.</p> <p>4.5 Compare and contrast EIA procedure with the existing environmental planning process at various levels in Nigeria.</p> <p>4.6 Examine potentials and limitations of existing EIA policies and regulations in Nigeria.</p> <p>4.7 Examine the usefulness of EIA legislations to protect the available natural resources in Nigeria</p>	<p>Compare and contrast Environmental Planning processes with EIA, pinpoint the potentials and limitations</p> <p>Examine EIA legislations in Nigeria, prepare an EIA for specific case studies and do a public critique.</p>	<p>Reports of Federal Ministry of Environment. Environmental Planning Reports from Consultants.</p>

NATIONAL BOARD FOR TECHNICAL EDUCATION, KADUNA

PROGRAMME: HIGHER NATIONAL DIPLOMA IN URBAN AND REGIONAL PLANNING.			
COURSE: REGIONAL PLANNING II		Course Code: URP 417	Contact Hours: 1-0-3
Course Specification:			
Theoretical Content:			
Week	General Objective: Enable students understand various Regional Plans and the Plan making processes.		
	Special Learning Objective	Teachers Activities	Learning Resources
1-2	<p>1.0 National, Regional and Local Plans Relationships.</p> <p>1.1 Differentiate among national, regional and local plans</p> <p>1.2 Identify the key contents of a regional plan</p> <p>1.3 Analyse the activities of Planners at each level.</p>	<p>i. Explain what is a region, identify and explain the contents of National, Regional and local plans.</p> <p>ii. Analysis of planners role at each level of planning mentioned.</p>	Textbooks in Regional Planning principles and techniques, project vehicle, relevant textbooks.
3-4	<p>2.0 Regional Planning Process</p> <p>2.1 Define an appropriate case region.</p> <p>2.2 Formulate goals and objectives for the case region.</p> <p>2.3 Undertake physical survey of the case region.</p> <p>2.4 Undertake socio-economic survey of case region.</p> <p>2.5 Analyse the survey data.</p> <p>2.6 Identify the key problems of the case region.</p>	<p>i. Identification and explanation of Regional planning process.</p> <p>ii. Definition of a planning region, case study of a region, formulation of goals and objectives, physical and socio-economic survey of the case study.</p>	Differentiate papers from NITP Conferences.

	<p>2.7 Make projections for the case region.</p> <p>2.8 Prepare alternative physical development plans and proposals for case region.</p> <p>2.9 Select, using appropriate evaluation techniques, the most preferred alternative option.</p> <p>2.10 Make implementation proposals.</p> <p>2.11 Prepare a report for the region plan.</p>	<p>iii. Analyse survey data, identify the problems on the region and make projections.</p> <p>iv. Prepare at least 3Nos. Physical development plans together with reports for the case study region, evaluate each alternative plan proposal and make implementation proposals including the cost implications.</p>	<p>References of already developed/prepared physical development plans from consultants.</p>
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NATIONAL BOARD FOR TECHNICAL EDUCATION, KADUNA

PROGRAMME: HIGHER NATIONAL DIPLOMA IN URBAN AND REGIONAL PLANNING			
COURSE: SEMINAR IN PLANNING		Course Code: URP 419	Contact Hours: 0-0-3
Course Specification:			
Theoretical Content:			
General Objective: Enable students to prepare and deliver seminar on planning issues, problems and solutions			
Week	Special Learning Objective	Teachers Activities	Learning Resources
1-2	1.0 Purpose of Seminar 1.1 Explain what is meant by seminar. 1.2 Discuss the need for seminar in urban planning programme.	i. Explain what a seminar is and its purpose in planning.	Past seminar papers, relevant planning textbooks on various seminar topics.
3-4	2.0 Framing Seminar Topic 2.1 Identify contemporary planning issues. 2.2 Choose topics that will address a particular planning issue.	i. Identify and frame seminar topics to reflect current planning issues and problems.	Books on Seminar Writing.
5	3.0 Seminar Paper 3.1 State how to collect and use data.	i. Collection and use of data for seminar papers.	Books on Seminar Writing.
6-11	3.2 Arrange the ideas in a table of contents. 3.3 Write out the paper in a logical sequence with simple expressions.	ii. Approval of planning seminar topics for students.	
12	3.4 Present the seminar paper to an audience. 3.5 Incorporate comments from the audience.	iii. Presentation of seminar papers by students to audience. iv. Review and incorporation of comments into the seminar topics.	

NATIONAL BOARD FOR TECHNICAL EDUCATION, KADUNA

PROGRAMME: HIGHER NATIONAL DIPLOMA IN URBAN AND REGIONAL PLANNING			
COURSE: LAND USE PLANNING II		Course Code: 421	Contact Hours: 1-0--3
Course Specification:			
Theoretical Content:			
Week	General Objective: understand land use plan and land use planning designs.		
	Special Learning Objective	Teachers Activities	Learning Resources
1	1.0 Meaning and Scope of Land Uses 1.1 Define land use. 1.2 Enumerate the scope of land use. 1.3 Delimit the extend of any land use. 1.4 Recognise land use mix.	i. Define and Explain land use, its scope, delimit extent of land use mix and land use plan.	Relevant textbooks on landuses planning computer systems, tracing papers and colored pencils.
2-3	2.0 Classification of Land Uses 2.1 Enumerate various forms of land classification. 2.2 Differentiate various forms of land uses. 2.3 Digitize the land use categories. 2.4 Relate various colours with different land uses. 2.5 Establish the criteria for urban land uses.	i. Explain various forms of land use classification, digitization of land use categories, colour codes and criteria for urban land uses.	Vehicles for field exercises and survey.
4-5	3.0 Effects of Land Form on Land Uses. 3.1 Enumerate various land forms. 3.2 Associate land use to land form. 3.3 Relate land form use planning.	Identify and teach various landforms relate landforms to land uses planning. Give an exercise on landuse forms and planning.	Use slides on land use firms
6-7	4.0 Types of Land Use in a City of Operation. 4.1 Conduct a field survey of land uses in area of operation. 4.2 Code the uses of land in the study area. 4.3 Qualitatively show the uses by colours/shading.	iii. Supervise the conduct of field survey of landuses in a case study, code the uses and assign appropriate colours.	

<p>8-9</p>	<p>5.0 Design Standards</p> <p>5.1 State design standards of community facilities (educational, health, recreational parks, library services, fire station, etc.)</p> <p>5.2 State design standards of urban circulation systems (highway, arterial, collector, access, and pedestrian walkways, parking).</p> <p>5.3 Explain the design standards for industrial commercial development etc.</p>	<p>Explain design standards for community facilities, urban circulation systems, commercial and industrial landuses.</p>	<p>Urban Design standard with colour codes.</p>
<p>10-12</p>	<p>6.0 Preparation of Land Use Plan</p> <p>6.1 Define a land use plan</p> <p>6.2 Explain the process of preparing land use plan.</p> <p>6.3 Prepare a land use plan for a selected settlement.</p>	<p>i. Explain the processes of preparing landuse plan.</p> <p>ii. Give the student assignments to prepare landuse plan for selected settlements.</p> <p>iii. Do a critique of the landuse plan done with the students.</p>	<p>Drawing Board with drawing materials and instruments.</p> <p>Assorted colour codes.</p> <p>Display Board's etc.</p>

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PROGRAMME: HIGHER NATIONAL DIPLOMA IN URBAN AND REGIONAL PLANNING.			
COURSE: Sustainable Human Settlement II		Course Code: URP 423	Contact Hours: 1-0-6
Course Specification:			
Theoretical Content:			
Week	General Objective: Enable the students understand Sustainable Human Settlement and Associated emerging trends in Planning		
	Special Learning Objective	Teachers Activities	Learning Resources
1-2	Environmental Planning and Management Process. Define the concept of Environmental Planning and Management (EPM) Explain the goal, objectives, attributes and principles of EPM	i. Explain and discuss the concept, goals and objectives and attributes of Environmental Planning and Management Process (EPM)	Current textbooks and Journals on emerging trends in Planning, visit web sites of UNDP, UNEP, World Bank.
3-5	Discuss the elements of EPM Explain the process of preparing environmental profile for a settlement. Discuss the organisation of a city consultation.	ii. Explain the elements of EPM and the process of preparing environmental profile of a settlement.	NITP Conference papers.
6-7	Explain the formation and function of a Working Group (WG). Explain the preparation of strategy and action plans to address environmental issues in rural and urban settlements. Identify stakeholders for selected environmental issues. Discuss the roles, responsibilities and relationship of the public organised private, and popular sectors in sustainable human settlement programmes. 1.10 Apply the EPM process to address environmental problems in rural and urban settlements (solid and liquid wastes, water supply, sanitation, flood, erosion, street market, and neighbourhood up grading).	iii. Explain and discuss the mobilization of city consultation working Groups and the action plans for addressing environmental issues including identification of relevant stakeholders	

<p>8-9</p> <p>10-11</p> <p>12</p>	<p>Sustainable Human Settlement Practices.</p> <p>Explain the meaning and operations of the following:</p> <p>Healthy cities. Child-friendly cities. Inclusive cities. Safer cities. Urban Basic Services.</p> <p>Give an overview (case studies) of the following sustainable development programmes in Nigeria.</p> <p>UNICEF’S Urban Basic Services/Children in need of special protection measures. Urban Development Bank of Nigeria Public-Private Partnership in service delivery. FGN’s Poverty Alleviation Programme (PAP). World Bank Assisted Infrastructure Development Fund (IDF). WHO’s Healthy market places project.</p> <p>Outline best practices requirements. Undertake field trips to sustainable settlement projects/programmes in your area of operation. Prepare and present a report on the project/programme visited.</p>	<ol style="list-style-type: none"> i. Identify, explain and discuss the meaning and operational of sustainable Human Settlement Practices. ii. Discuss case studies of sustainable development programmes in Nigeria. iii. Outline best practices requirements in Nigeria and overseas. iv. Do a visit to available site(s) close to your institution. v. Prepare and present a report on the project/site visited and attempt a critique. 	<p>Textbooks and Journals on current and emerging issues in Planning</p> <p>Field trip with project vehicles.</p> <p>Cameras.</p>
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PROGRAMME: HIGHER NATIONAL DIPLOMA IN URBAN AND REGIONAL PLANNING.			
COURSE: Development Planning		Course Code: URP 425	Contact Hours: 1-0-6
Course Specification:			
Theoretical Content:			
Week	General Objective: To enable students acquire the skills and knowledge required in development plan preparation.		
1 – 3	1.0 Site Plan 1.1 Identify a site to be planned. 1.2 Up-date the land-use map of the study area. 1.3 Formulate the objectives of the design programme. 1.4 Carry out socio-economic and physical survey of the area. 1.5 Analyse and synthesize data for purpose of forecasting.	Explain and discuss the concepts of site, Site Analysis Report and Plan (SAR&P) or Location Plan as a mechanism for monitoring existing layout plan.	Relevant textbooks on Urban and Regional Planning principles and techniques, base maps of chosen areas and project vehicles for field surveys/exercises. Computers and calculators.
4 – 5		Identify a site to be planned and the landmarks, update the landuse map or base map of the study area (planning area).	
6		Formulate objectives for the design programme and carry out socio-economic and physical survey data to reveal attributes and constraints in the planning area. Analyse the data collected and synthesize them for forecasting using relevant statistical or mathematical methods.	

7 – 8	<p>2.0 Design Techniques</p> <p>2.1 Present more than one alternative proposal. 2.2 Choose between alternatives. 2.3 Design the chosen alternatives. 2.4 Prepare a model of the designed master/structure plan for critique.</p>	<p>Generate and design at least three alternative plan proposals, choose the preferred alternatives by evaluation each of the plan proposals.</p> <p>Design the chosen alternative and prepare a model plan of the structure/district plan together with the comprehensive report (SAR&P)</p>	<p>Modeling equipment and materials.</p> <p>Display Boards.</p>
9 – 12	<p>3.0 Reporting Procedure</p> <p>3.1 Prepare a model for critique. 3.2 Write a comprehensive report.</p>	<p>i. Organise a critique session for both the plan and report (SAR&P) to enhance more competence.</p>	