NATIONAL BOARD FOR TECHNICAL EDUCATION



CURRICULUM AND COURSE SPECIFICATION

FOR

NATIONAL DIPLOMA (ND) IN PUBLIC HEALTH TECHNOLOGY

DEVELOPED IN COLLABORATION WITH

ENVIRONMENTAL HEALTH OFFICERS REGISTRATION COUNCIL OF NIGERIA (EHORECON), ABUJA

MARCH, 2021

GENERAL INFORMATION

1.0 PROGRAMME NOMENCLATURE:

National Diploma (ND) in Public Health Technology Programme

2.0 PROGRAMME GOAL:

The National Diploma Programme in Public Health Technology is designed to provide basic academic and professional training required to assist in achieving Public Health at the community level.

3.0 OBJECTIVES OF THE PROGRAMME:

The objectives of the ND programme in Public Health are:

- i) Enable student acquire basic skill in Public Health
- ii) Carry out community diagnosis and mobilization
- iii) Conduct Health Education and promotion in the community
- iv) Collect, analyse and present health data
- v) Assist in sensitizing and counseling Community members to actively participate in Public Health programmes
- vi) Participate in preventive and promotive in health care service delivery

4.0 ENTRY REQUIREMENTS

The minimum entry requirements into the ND Public Health Technology programme are:

- i. Five (5) credit passes in: WASC, NECO or GCE 'O' Level; at not more than two (2) sittings.
- ii. The subject combination must include: English, Mathematics, Biology/Health Science, Chemistry and Physics
- iii. Environmental Health Assistant Certificate (with CGPA not less than 2.50) from accredited programme/Institution.

5.0 STRUCTURE/DURATION OF THE PROGRAMME:

- i. The ND Public Health Technology is a programme structured to last for two (2) years (four semesters) of classroom work, laboratory and field practicum.
- ii. The two (2) years programme incorporates 3-4 months SIWES (Supervised Industrial Work Experience Scheme), which shall take place at the end of the second semester of the second year.
- iii. Each semester shall be for a period of 17-18 weeks, made up as follows:
- iv. 15 contact weeks of teaching (i.e. lectures and practical sessions etc) and 2 -3 weeks for registration, continuous assessment and examinations.

6.0 CURRICULUM:

The syllabus of the ND Public Health Technology programme consists of four (4) main components namely:

- i. General studies/General education courses
- ii. Foundation courses
- iii. Professional courses
- iv. SIWES.

7.0 ASSESSMENT CRITERIA:

	Class work/practical & Laboratory Works	Semester Examinations	Total
Theory	10	30	40
Practical	20	40	60
Total	-	-	100

8.0 AWARD OF NATIONAL DIPLOMA

The National Diploma Certificate shall be awarded by the authority of the Academic Board of the Institution. The conditions for the award of National Diploma in Public Health Technology Certificate include the following:

- i) Satisfactory performance in all prescribed course work, continuous assessment, workshop practices, laboratory work field trip etc.
- ii) Satisfactory performance in all semester examinations.
- iii) Satisfactory completion of written project/seminar papers.
- iv) The candidate should have completed a minimum of 72 and a maximum of 80 semester credit units.

DIPLOMA CLASSIFICATION

The National Diploma shall be awarded based on the following classifications by NBTE:

Distinction - CGPA 3.50 - 4.00 Upper Credit - CGPA 3.00 - 3.49 Lower Credit - CGPA 2.50 - 2.99 Pass - CGPA 2.00 - 2.49

Additionally, Candidates must pass the professional Certification examination administered by the Environmental Health Officers Registration Council of Nigeria (EHORECON) in the second semester of ND II (Year Two). This shall enable the student to be inducted into the profession with a temporary license to practice the profession as a Public Health Technician.

The professional Certification examination shall involve the following papers:

- i) Oral examination
- ii) Practical examination
- iii) Theory examination made up of essay and multi choice questions (MCQ) of 50. The Essay and MCQ will test the knowledge of Public Health

9.0 ACCREDITATION OF PROGRAMME

The ND programme shall be accredited by the NBTE in conjunction with EHORECON before Diploma can be awarded. Details about the process of accrediting the programme for the award of ND is available on the Board's website www.nbte.gov.ng or through correspondence addressed to:

The Executive Secretary, Attention – Monotechnic Programmes Department., NBTE, Plot 'B' Bida Road, P.M.B 2239, Kaduna, Nigeria.

10.0 LOG BOOK:

The Student shall maintain a Log Book for each course. It shall contain all the recordings of the day-to-day, weekly and semester practical works/activities from day one to the end of the programme. This is to be checked, marked appropriately and endorsed by all supervisors concerned at the end of every week.

11.0 FINAL YEAR PROJECTS:

Final year students of the programme are expected to carry out project works, either on individual or group basis (only 2 per group). The project topics should as much as possible be related to the programme and serve as useful tools for further Research and /or Development Projects should be properly supervised and their reports well presented. The institution should develop formats for presenting and grading of projects. The formats should be adopted as applied to each stakeholder

CURRICULUM TABLE FOR NATIONAL DIPLOMA (ND) PUBLIC HEALTH TECHNOLOGY PROGRAMME

100 LEVEL, FIRST SEMESTER

S/No.	COURSE CODE	COURSE TITLE	L	T	P	CU	СН	PRE-REQUISITE COURSES
1.	PHT 111	Introduction to Public Health	2	-	1	3	45	
2	MTH 101	General Mathematics	2	1	-	3	45	
3.	STA 101	Introduction to Statistics	2		-	2	30	
4.	GNS 230	General Biology	1	-	1	2	30	
5.	GST 101	Use of English	2	-	-	2	30	
6.	PHS 111	Introduction to Pharmacology and Therapeutics	2	-	-	2	30	
7.	COM 111	Introduction to Computer Science	1	-	2	3	45	
8.	PHT 112	Immunology and Immunization	2	-	1	3	45	
9.	GLT 111	General Laboratory Technique	1	-	2	3	45	
10	DTH 115	Introduction to Anatomy and Physiology	2	-	1	3	45	
11	GNS 127	Citizenship Education 1	2	-	-	2	30	
		Total	19	1	8	28	405	

CURRICULUM TABLE FOR NATIONAL DIPLOMA (ND) PUBLIC HEALTH TECHNOLOGY PROGRAMME

100 LEVEL, SECOND SEMESTER

S/No.	COURSE CODE	COURSE TITLE	L	T	P	CU	СН	PRE-REQUISITE COURSES
1.	GNS 213	Introduction to Medical Sociology	2	-	-	2	30	
2	PHT121	Introduction to Health Education and Promotion	2	-	1	3	45	
3.	GNS 112	Introduction to General Chemistry	2	-	1	3	45	
4.	PHT 122	Introduction to Biostatistics	2	-	1	3	45	
5.	EHT 125	Public Health Nutrition	3	-	-	3	45	
6.	PHT 124	Substance Use and Abuse	2	-	-	2	30	
7.	EHT 111	Introduction to Environmental Health	2	-	1	3	45	
8.	PHT 126	Introduction to Demography	2	-	-	2	30	
9.	CHO 136	Introduction to Mental Health	2	-	-	2	30	
10	EHT 212	Introduction to Epidemiology	2	-	-	2	30	
11	EED 126	Introduction to Entrepreneurship Education	1	-	1	2	30	
		Total	22		5	27	405	

CURRICULUM TABLE FOR NATIONAL DIPLOMA (ND) PUBLIC HEALTH TECHNOLOGY PROGRAMME

200 LEVEL, FIRST SEMESTER

S/No.	COURSE CODE	COURSE TITLE	L	T	P	CU	СН	PRE-REQUISITE COURSES
1.	PHT 201	Introduction to Community Health	2	-	-	2	30	
2	PHT 211	Introduction to Communicable and Non Communicable Disease	3	-	-	3	45	
3.	PHT 212	Primary Health Care	2	-	1	3	45	
4.	GNS 218	Research Methodology	2	-	-	2	30	
5.	PHT 213	Introduction to Emergency Response	1	-	1	2	30	
6.	PHT 214	Maternal and Child Health	2	-	1	3	45	
7.	STB 211	Introduction to Microbiology and Parasitology	2	-	1	3	45	
8.	PHT 216	Seminar in Public Health	1	-	1	2	30	
9.	EED 216	Practice of Entrepreneurship	1	-	1	2	30	
		Total	16		6	22	330	

CURRICULUM TABLE FOR NATIONAL DIPLOMA (ND) PUBLIC HEALTH TECHNOLOGY PROGRAMME

SECOND SEMESTER, 200 LEVEL

S/No.	COURSE CODE	COURSE TITLE	L	T	P	CU	СН	PRE-REQUISITE COURSES
1.	PHT 221	Public Health Planning and Management	3	-	-	3	45	
2	PHT 222	First Aid	2	-	1	3	45	
3.	EHT 211	Introduction to Public Health Pest Management	2	-	1	3	45	
4.	EHT 223	Public/Environmental Health Laws	2	-	1	3	45	
5.	PHT 225	Global and Contemporary Health Issues	2	-	-	2	30	
6.	EHT 315	Health Economics	2	-	-	2	30	
7.	PHT 227	Project	2	-	4	6	90	
8.		SIWES						
		Total	15	-	7	22	330	

PROGRAMME: NATIONAL DIPLOMA (ND) IN PUBLIC HEALTH TECHNOLOGY											
COURSE TITLE: INTRODUC			птес	INOLOGI							
COURSE CODE: PHT 111	TION TO TEBELLE III										
DURATION:	Lecture: - 30 Hours	Tutorial:	F	Practical: - 15 Hours	Total: H	RS 45Hours					
CREDIT UNITS: 3					l						
GOAL: The goal of the course is	to provide the students v	with knowledge	on publ	lic health, history and princ	ciples.						
GENERAL OBJECTIVE: On c	ompletion of the course,	the student show	ld be a	able to:							
1. Understand public health Con	cept.										
2. Understand the public health l	history.										
3. Understand the principles and	• •										
GENERAL OBJECTIVE: 1	.0 Understand public hea	alth, history and	princip	oles.							
Specific Learning Objectives	Teachers Activities	Learning	_	ecific Learning	Teachers	Learning	Evaluation				
(Theory)		Resources		jective (Practical)	Activities	Resources					
Students are to:	i. Explore various	Bulletins		Identify the challenges	Guide the	Bulletins	Continuous				
1.1 Define Public Health	definitions,	Charts		countered by the early	students on	Charts	assessment				
1.2 Discuss the evolution and	Identifying the	Internet/Intrane		d current practitioners and	the history	Internet/Intranet	Practical				
History of Public Health	limitations.	Journals		entists in public health.	of public	Journals	Assignment				
1.3 Analyze health situations –	ii. Discuss era by era	Lecture notes		Highlight the	health using	Lecture notes	Examination				
past & Present	scientist and	Pictorials		ntributions of public	appropriate	Pictorials					
1.4 Explain the principles of	limitations in history.	Projector	hea	alth in health and human	teaching	Projector					
prevention of Diseases in		Text book	dev	elopment	Aids.	Text book					
Community	iii. Explain the role of		1.3	Students should be able							
1.5 Enumerate the role of	public health officers		to i	dentify Public Health							
Public Health in health and	in human health&		cha	allenges in the							
human development in the	development.		con	nmunity							
community.											
GENERAL OBJECTIVE: 2.0 Understand the Concept of public health.											
Specific Learning Objectives	Teachers Activ	ities Learn	ng	Specific Learning	Teachers	Learning	Evaluation				

Resources

Objective (Practical)

(Theory)

Resources

Activities

_	T	1		1	T	т
2.1Explain epidemiology, prevention,	i. Identify the	Bulletins	i. Identify the guiding	Moderate the	Projector	Continuous
control &management of diseases	necessary tools and	Charts	principles in	activities and	Text book	assessment
of public health importance.	management	Internet/Intranet	management and	guide the	Internet	Practical
2.2 Identify relevant public health laws	strategy for disease	Journals	control of diseases.	students on	Lecture notes	Assignment
and institutions of public health	control.	Lecture notes		the	Charts	Examination
importance.	ii. Outline public	Pictorials	ii. Identify relevant	narratives,	Pictorials	
2.3 Discharge duties effectively in an	health institutions,	Projector	public health laws,	history		
administrative capacity in a health	public health laws,	Text book	tools and institutions	investigation		
organization such as local and	tools and	Photo	for the control and	etc.		
international health departments.	implementation	micrographs	management of	concerning		
2.4 Acquire administrative skills	challenges.		diseases	the course.		
essential for smooth functioning of	iii. Explain					
health establishments	investigation					
2.5 Conduct epidemiological	procedures for					
investigation of various diseases	disease control.					
during epidemic.	iv. State the Sanitary					
2.6 Understand the criteria for	requirement of					
sanitation of various place viz;	various places e.g.					
slaughter house, eateries, sewage	Slaughter house,					
treatment plants, ports & airport,	eateries,					
milk dairies and be in position to	v. Describe the					
inspect & recommend corrections.	functions of public					
2.7 Plan, implement & evaluate school	health professionals					
health services.	in school sanitation,					
2.8 Plan, implement & evaluate	Occupational health					
programs related to Occupational	and safety.					
Health and Safety.	and survey.					
GENERAL OBJECTIVE: 3.0 Und	lerstand the basic Practice	(ethics) of public	health			

GENERAL OBJECTIVE: 3.0 Understand the basic Practice (ethics) of public health

021(2112 0202011 (2)	evo chieribunie ine cubi	- 1 1 m + m + m + m + m + m + m + m + m +	P wo me meanin			
Specific Learning	Teachers Activities	Learning	Specific Learning	Teachers	Learning	Evaluation
Objectives (Theory)		Resources	Objective (Practical)	Activities	Resources	
3.1 Explain the basic ethical	Explain public health	Bulletins	Identify various ethics	Display ethical	Bulletins	Quiz
principles, such as respect for	practice of a regulated	Charts	in public health	code of conduct	Charts	
person, beneficence, justice,	profession with	Internet/Intranet	practice.	to the students.	Internet/Intranet	
among others.	established ethical	Journals			Journals	
	code of conducts.	Lecture notes			Lecture notes	
		Pictorials			Pictorials	
		Projector			Projector	
		Text book			Text book	

PROGRAMME: NATIONAL	DIPLOMA (ND) IN P	UBLIC HI	EALTH TEC	CHNOLOGY				
COURSE TITLE: General M	` '			211102001				
COURSE CODE: MTH 111								
DURATION:	Lecture: - 30hours		Tutorial:	Nil P	ractical: -]	Nil	Total:	30 hours
CREDIT UNITS: 2			I	L			I	
GOAL::This course is designed	to enable students acquir	re basic kno	owledge of M	lathematics in solvi	ing proble	ms in their are	a of specificati	on.
GENERAL OBJECTIVE: On					<u> </u>		*	
1.0 Understand the law of indice	*							
2.0 Explain the theory of logarit				ng mathematical ex	pressions.			
3.0 Comprehend the principles u								
4.0 Understand the procedure for	r solving quadratic equat	ions.						
5.0 Understand the concept of e					application	on to Public H	ealth Practice.	
6.0 Understand the set theory an								
GENERAL OBJECTIVE: 1	.0 Understand the law of	indices and	d its applicati	on to Public Health	Practice			
Specific Learning Objectives	Teachers Activities	I	Learning	Specific Learning	3	Teachers	Learning	Evaluation
(Theory)		F	Resources	Objective (Practi	cal)	Activities	Resources	
1.1 Explain the laws of indices.	The teacher should expl		Projector,	Students should so	lve	Teacher to	Projector,	-Test
1.2 Relate law of	laws of indices and their		Text book	relevant problems	on	guide the	Text book	-Examination
indices to Public	application to Public He		nternet	indices.		students in	Internet	-Class
Health Practice.			Lecture note			solving the	Lecture note	presentation
		_	Chart			indices.	Chart	-Assignments
			White board				White board	
			Marker				Markers	
CENEDAL ODIECTIVE. 2	Δ Γ1		Tutorial	41111411-		4:	1	
	.0 Explain the theory of lot Teachers Activities					Teachers		S. Evaluation
Specific Learning Objectives (Theory)	1 eachers Acuviue	S	Learning Resources	Specific Learni Objective (Pra	0	Activities	Learning Resources	Evaluation
2.1 Explain logarithm theory	The teacher should	evnlain	Text book	Students should		Teacher	Text book	Assignment
2.2 Explain Surds	logarithm theory an		Internet	logarithms and		should	Internet	Class work
2.3 Discuss the application of	as well as their appl		Lecture note			guide the	Lecture note	Test
Logarithm and surds in	manipulating mathe		White board them to Public Health.		students to	White board	Examination	
manipulating mathematical	expressions relevan		Marker			carry out	Marker	
expressions.	Public Health Pract		Tutorial			the task.	Tutorial	
•	.0: Comprehend the princ	ciples under	rlying the con	struction of graphs	and charts.			
Specific Learning Objectives	Teachers Activities	Learning		: Learning	Teacl		Learning	Evaluation
(Theory)		Resource	s Ōbjecti	ve (Practical)	Activ	ities	Resources	

3.1 Comprehend the principles underlying the construction of graphs and Charts.3.2 Explain the procedure for plotting graphs and charts.3.3 Interpret the graphs and charts with accuracy.	Teacher should guide the students on the construction of graphs and charts and its interpretation.	Chart Pictur White Marke	book chainter note res e board er	arts an terpret	should construct ad graphs, and also the results.	guio in c the grap the	cher should de the students onstructing charts and ohs as well as interpretation he result.	Projector, Text book Internet Lecture note Chart Pictures White board Marker	Assignment Class work Test Examination Tutorials
Specific Learning Objectives (Theory)	0: Understand the proce Teachers Activities	L	or solving qua earning esources	\$	c equations. Specific Learning Objective (Practical)		Teachers Activities	Learning Resources	Evaluation
4.1 Explain the procedure for solving quadratic equation.	Teacher should explain the necessary steps in solving quadratic equation.	In Lo Cl Pi W M	ext book aternet ecture note hart ictures //hite board farker utorials		Student should solve quadratic equations.		Teacher should guide the student towards solving the equation with precision.	Text book Internet Lecture note Chart Pictures White board Marker Tutorials	Assignment Class work Test Examination
GENERAL OBJECTIVE:5.0 U Health Practice Specific Learning Objectives	Inderstand the concept of Teachers Activities	of equat	Learning		Specific Learning		Teachers	Learning	to Public Evaluation
 (Theory) 5.1 Expatiate on the concept of equation and methods of solving the equations. 5.2 Enumerate the types of equations. 5.3 Explain the relationship of mathematical equations to Public Health Practices. 	Teacher should exequations and types, as well a procedure of so the equations.	their s the	Resources Projector, Text book Internet Lecture not Chart Pictures White boar Marker	ote	Objective (Practice Students should sole equation and list the different types of equations.	ve th	Activities Teacher to guide the student in the process of solving the equations.	e Text book n Internet s Lecture note	Assignment Class work Test Examination
GENERAL OBJECTIVE: Specific Learning Objectives (Theory)	6.0 Understand the set the Teachers Activities	s Le	nd probabilit earning esources		its application to Pub Specific Learning Objective (Practical)		ealth Practice. Teachers Activities	Learning Resources	Evaluation

6.1 Explain set theory.	Teacher	should	Text book	Students should solve	Teacher	should	Text book	Assignment
6.2 Explain Probability.	explain	set,	Internet	mathematical problems	guide	the	Internet	Class work
6.3 Solve mathematical problems on	probability		Lecture note	on set and probability	students		Lecture note	Test
sets and probability.	with solving	relevant	Chart	and relate their	solving		Chart	Examination
	problems.		Pictures	application to Public	problems	and	Pictures	
6.4 Explain the application of set			White board	Health.	coming u	ıp with	White board	
and probability to Public Health			Marker		the relation	onship	Marker	
Practice.						-		

PROGRAMME: NATIONAL DIPLOMA (ND) IN PUBLIC HEALTH TECHNOLOGY

COURSE TITLE: Introduction to Statistics

COURSE CODE: STA 111

DURATION: Lecture: - 30 hours Tutorial: Nil Practical: - Nil Total: 30 hours

CREDIT UNITS: 2

GOAL: This course is designed to enable students to acquire basic knowledge of descriptive statistics.

GENERAL OBJECTIVE: On completion of the course, the student should be able to:

- 1. Understand the nature of statistical data, their types and uses
- 2. Understand the procedures for collection of statistical data
- 3. Understand the difference between total coverage and partial coverage in data collection
- 4. Understand the methods of data compilation
- 5. Understand the methods of data presentation.

GENERAL OBJECTIVE: 1.0 Understand the nature of statistical data, their types and uses

GENERAL Observation 1.0 Onderstand the nature of statistical data, then types and uses										
Specific Learning Objectives	Teachers Activities	Learning	Specific Learning	Teachers	Learning	Evaluation				
(Theory)		Resources	Objective (Practical)	Activities	Resources					
1.1 Define Statistics	i. Explain the nature of	-Books of	i. Locate sources of	i. Encourage	-Books of	Test				
1.2 Identify various sources of	Statistics	Recorded	Statistical data.	investigating	recorded					
statistical data.	ii. Introduce various	Statistics	ii. Identify sources for	sources	Statistics	Examination				
1.3 State important uses of statistics	sources and discuss	-Internet	Specific need.	ii. Encourage	-Internet					
1.4 State uses of statistical data	how they are used	-textbooks		Use of Internet	-Text books					
1.5 Explain quantitative data	(Social, Health and									
1.6 Identify various scales of measu	Economic, Biological,									
rement.	demography, Industrial)									

GENERAL OBJECTIVE: 2.0 Understand the procedures for collection of statistical data

Specific Learning Objectives	Teachers	Learning	Specific Learning	Teachers	Learning	Evaluation
(Theory)	Activities	Resources	Objective (Practical)	Activities	Resources	

 2.1 Describe basic sampling techniques 2.2 Distinguish between the following methods of data collection 2.3 Designquestionnaires and formats for 2.4 Identify the problems and types of err data collection. 2.5 Collect data on various sources listed 2.6 Collect primary and secondary data 2.7 Collect primary and Secondary data GENERAL OBJECTIVE: 3.0 Under 	or that arise in	i. Discus simple randor samplii. Discus systema samplin	m Lecting Note	es	Determine to concept of a sampling us simple data	random sing	Discuss simple random sampling		Test Examination
Specific Learning Objectives	Teachers	Lea	arning	Specif	ic Learning	Teach	ers	Learning	Evaluation
(Theory)	Activities	Res	sources	Objec	tive Practica	l) Activit	ties	Resources	
Students to: 3.1 Distinguish between census and sampling surveys. 3.2 Explain the meaning and purpose of pilot enquires. 3.3 Identify the advantages and disadvantages of sampling. 3.4 Distinguish between Probability and non-probability methods. 3.5.Explain the various probability-sampling methods. 3.6.Explain the various non probability sampling method purpose judgment and quota) 3.7.Explain the use of post enumeration surveys. 3.8.Collect data applying the sampling methods in 3.5 above	i. Explain and discuss the process of undertaking statistical sample. ii.Explain and discuss the process of undertaking statistical sample.	g a - W ma - O sur	hecklist Vriting terial other vey tools.	to illustheoret	ical t. uss random	to illus theoret conten iii. End	examples trate ical ts.	Checklist - Writing material - Other survey tools.	Test Examination
GENERAL OBJECTIVE: 4.0 Und Specific Learning Objectives (Theory)	Teachers Activities	of data co Learnin Resoure	ng Spe	ecific Le jective (arning Practical)	Teachers A	Activities	Learning Resources	Evaluation

Students to:	i. Explain and	-Statistical	i.Show ability	i. Explain and supervise		Test
4.1 Identify the different categories	discuss the	Kits	tocategorize	student exercises and	-Statistical	
of collected data	concepts		various data	assess student work.	Kits	Examination
4.2 Classify the data into the various	covered.	-Textbooks	collected.	ii. Explain and supervise		
categories				student exercises	-Checklists	
4.3 Verify the sorted data	ii.Explain and		ii.Use examples to	and assess student		
4.4 Identify the different data storage	discuss the		illustrate	work.	-Survey tools	
methods	concepts covered.		theoretical			
4.5 Compile discrete and continuous			contents.			
data						

GENERAL OBJECTIVE: 5.0 Understand the methods of data presentation

Specific Learning Objectives (Theory)	Teachers Activities	Learning Resources	Specific Learning Objective (Practical)	Teachers Activities	Learning Resources	Evaluation
Students to:	Explain and	-Textbooks	Demonstrate,	Explain and	Textbooks	Test
5.1 Identify the various types of statistical table	discuss the		using examples,	supervise		
(frequency and contingency tables, simple	concepts	-Statistical	various methods of dat	student	Statistical	Examination
informative tables, table for reference, complex	covered	Tables	a presentation	exercises and	tables	
tables)				assess student		
5.2 Explain various methods of data presentation (tabular, graphical, pictorial, text etc)		-Projector		work		
5.3 Construct scatter diagrams frequency tables, and graphs.		-Whiteboard				
5.4 Explain merits and demerits of chart/diagrams above.		-Markers				
5.5 Present life data						

PROGRAMME: NATIONAL DIPLOMA (ND) IN PUBLIC HEALTH TECHNOLOGY											
COURSE TITLE: General Biology											
COURSE CODE: GNS 230											
DURATION :	Lecture: - 15hours	Tutorial: Nil	Practical: - 15hours	Total: 30 hours							
CREDIT UNITS: 2	CREDIT UNITS: 2										

GOAL: This course is designed to introduce the students to basic biological sciences and to make them understand the environment in which they live GENERAL OBJECTIVE: On completion of the course, the student should be able to:

- 1. Understand the concept of living things
- 2. Understand the structure of cells
- 3. Understand the principal features of different groups of living things

- 4. Know the methods by which plants and animals feed themselves
- 5. Know the methods by which plants and animals generate energy from their food
- 6. Understand the methods by which substances are moved in the bodies of plants and animals
- 7. Understand how plants and animals remove their waste products
- 8. Understand how living things move

plant cell, and animal cell)

2.4 Draw and label the cells observed in 2.3 above

2.5 Differentiate between a plant and animal cell

- 9. Know how living things increase in size and number
- 10. Understand the interaction between an organism and its environment

11. Know Man's interference with his environment									
12. Understand the fundamentals of inheritance									
GENERAL OBJECTIVE: 1.0 Understand	the cor	ncept of living t	hings						
Specific Learning Objectives	Teac	hers Activities	Learning	Specific Learning	Teachers	Learning	Evaluation		
(Theory)			Resources	Objective (Practical)	Activities	Resources			
Students are to:	i. Tra	ce the origin of	Projector	Group Students into	Moderate	Projector	Test		
1.1 Define Biology	the te	rm "Biology"	Text book	pairs for collection of	the group	Video/Audio			
1.2 List living and non-living things in the			Internet	all common pests of	activities		Examination		
immediate environment	ii. Di	scus the living	Lecture notes	human body, stored		devices			
1.3 List the characteristics of living organisms	and n	on- livings	Charts	product, livestock,					
1.4 Illustrate the differences between a plant,	aroun	ıd.	Pictures	house-hold, Field		Models			
an animal and a protist e.g. Mango tree			Tutorials	crops					
plant mycobacterium tuberculosis for									
protist, Man for animal									
GENERAL OBJECTIVE: 2.0 Understand	the str	ucture of cells.	•		•	•			
Specific Learning Objectives		Teachers	Learning	Specific Learning	Teachers	Learning	Evaluation		
(Theory)		Activities	Resources	Objective (Practical)	Activities	Resources			
Students to:		Provide the	Projector	Group Students into	Moderate	Projector	Test		
Define cell theory		equipment	Text book	pairs for collection of	the group	Video/Audio			
2.2 Distinguish between prokaryotic and eukary	otic	and explain	Internet	all common pests of	activities.	devices	Examination		
cells		the	Lecture notes	human body, stored		Models			
2.3 Observe some cells under the microscope (e.	.g. a	operational	Charts	product, livestock,					

2.6 List the functions of the different cell organe	lles.					
GENERAL OBJECTIVE: 3.0 Understand	the principal feature	s of different gro	oups of living things			
Specific Learning Objectives	Teachers	Learning	Specific Learning	Teachers	Learning	Evaluation
(Theory)	Activities	Resources	Objective (Practical)	Activities	Resources	

Pictures

Tutorials

mechanism.

house-hold, Field

crops.

Students to:	Emphasis on	Projector	Group Students into	Encourage	Projector	Test
3.1 Name the four major divisions under the plant	animals and		pairs for collection of	group		
kingdom: Thallophyta, Bryophyta,	plants of	Text book	all common pests of	activities in	Text book	Examination
Pteridophyta, and Spermatophyta	public health		human body, stored	collection of		
3.2 State the characteristic features in each division	importance	Internet	product, livestock,	plant and	Internet	
in 3.1 above.			household, Field	animal		
3.3 List at least four differences between Algae		Lecture notes	crops.	samples	Lecture notes	
and Fungi e.g. Chloroplast, autotrophic/						
heterotrophic, starch/ glycogen, presence of		Charts			Charts	
chitin in fungi, etc.						
3.4 Give two examples of each group in 3.3 above		Pictures			Pictures	
3.5 Describe the external structures of a flowering						
plant.						
3.6 Name the different phyla under the animal						
kingdom						
3.7 Explain the distinguishing characteristics of						
each phylum mentioned in 3.6 above						
3.8 Name two examples of animals belonging to						
each group						
3.9 Describe the external structures of a mammal						

GENERAL OBJECTIVE: 4.0 Know the methods by which plants and animals feed themselves

Specific Learning Objectives	Teachers	Learning	Specific Learning	Teachers	Learning	Evaluation
(Theory)	Activities	Resources	Objective (Practical)	Activities	Resources	
Students to:	Discuss the	Projector	Group Students into	Encourage	Projector	• Test
4.1 Define food	topics		pairs for collection of	team work	Video/Audio	 Examination
4.2 Distinguish between the food of plants and	covered	Text book	all common pests of	among the	devices	
that of animals	and give		human body, stored	students	Models	
4.3 Distinguish between autotrophic and	notes as	Internet	product, livestock,			
heterotrophic modes of feeding	appropriate		house-hold, Field			
4.4 Explain the different types of heterotrophy e.g.		Lecture	crops.			
parasitism, saprophytism		notes				
4.5 Explain the different types of autotrophy e.g.						
photosynthesis, chemosynthesis		Charts				
4.6 List the stages involved in feeding in animals e.g.		Pictures				
ingestion, digestion,						
assimilation and egestion						
4.7 Draw and label the digestive system in man						

GENERAL OBJECTIVE: 5.0 Know the r	nethods b	y which pl	lants ar	nd anim	nals gener	ate energy fron	n their foo	od				
8 9	chers		earnin	0		Learning	Teacher		Lear		Eval	uation
(vities		esourc		Objective Practical)		Activities			urces		
	cribe breat	<u> </u>	Projector Demonstr			Use Models		Proje		Test		
	iration, ae		Text book inh		inhalatio	,				o/Audio	Examination	
			ternet		Exhalati	on.	respirato	ory	devices			
	iration wit		ecture	notes			organs e	g.	Mode	els		
5.3 Locate sites of respiration Incells exam	nple.		harts				Lungs.					
(e.g. Mitochondrion and free			ctures									
Cytoplasm)		Τυ	utorials	S								
5.4 State the economic importance of												
fermentation (production of alcoholic												
beverages, lactic acid, and citric acid												
5.5 List the respiratory organs in animals												
(e.g. plasma membrane in protozoa,												
tracheal system in arthropods, gills in												
fish and lungs in terrestrial animals												
GENERAL OBJECTIVE: 6.0 Understand	the meth											
Specific Learning Objectives		Teachers		Learr		Specific Lear	rning	Teach		Learning	_	Evaluation
(Theory)		Activities	S	Resou	irces	Objective (Practical)		Activi	ities	Resource	es	
6.1 Define (a) osmosis		Explain th	he	Projec	ctor	Group studen	ts into	Guide	the	Projector	(Group
(b) diffusion		process of	\mathbf{f}	Text b	ook	two or more t	o carry	studer	its		I	Presentation
6.2 Demonstrate Osmosis and Diffusion by sim	ple	osmosis,		Intern	et	out experimen		praction	cal.	Video/Au	ıdio	
experiments		diffusion,	*		re notes	osmosis, diffu						
6.3 Explain the importance of transpiration		transpirat	ion	Charts		transpiration (etc.			devices		
6.4 Explain the importance of Translocation		and		Pictur	es							
6.5 Describe the vascular system of the plant		translocat	tion.							Models		
6.6 Draw and label the structure of a Mammalia	ın heart.											
6.7 Explain the structure and function of blood.												
GENERAL OBJECTIVE: 7.0 : Understar	nd how pla	ants and an	nimals	remove	e their wa	ste products						
Specific Learning Objectives	Teache	ers	Lea	rning	Spec	ific Learning	Teac	hers	Lea	rning	Eval	uation
(Theory)	Activit	ies	Res	ources	Obje	ective	Acti	vities	Res	ources		
					(Pra	ctical)						

7.1 Define Excretion.	Identify the	Projector	Student to identify	Provide	Projector	Assignment
7.2 Name the Excretory Organs and Excretory	excretory organs	Text book	excretory organs and	models for		
Products in man.	and explain the	Internet	their functions.	the study.	Video/Audio	
7.3 List the structures involved in excretion and	functional	Lecture notes		-	devices	
the excretory products in plants.	mechanism.	Charts				
7.4 Explain the processes of osmo-regulation in		Pictures			Models	
plants and various types of animals		Models				
CHINED IN ORTHOGENER OF ANY 1				•	•	

GENERAL OBJECTIVE: 8.0 Understand how living things move

Specific Learning Objectives	Teachers	Learning	Specific Learning	Teachers	Learning	Evaluation
(Theory)	Activities	Resources	Objective (Practical)	Activities	Resources	
8.1 List the organs of Locomotion in animals (e.g.	Discuss the	Text book	Identify the organs	Make models	Models	Assignments
pseudopodia; cilia, flagella, chetea, jointed limbs	outlined	Internet	and describe the	available for	Charts	
etc.)	organs.	Lecture notes	movement pattern.	the study.	Pictures	
8.2 Describe the general plan of the skeleton in		Models			Tutorial	
mammals						
8.3 State the functions of the skeleton						
8.4 List the different types of movements in plants (e.g.						
tropisms, taxisms, nastic movements etc.)						

GENERAL OBJECTIVE: 9.0 Know how living things increase in size and number.

Specific Learning Objectives (Theory)	Teachers Activities	Learning Resources	Specific Learning Objective (Practical)	Teachers Activities	Learning Resources	Evaluation
9.1 Distinguish between asexual and sexual	Discuss the	Text book	Identify organisms	Provide	Models,	Test
reproduction	topics with	Text book	that exhibit sexual,	models and	Wiodels,	Test
9.2 List some examples of asexual reproduction in	vivid	Internet	asexual reproduction.	explain the	Test books	Examination
plants and animals (e.g. binary fission in	examples.			reproductive		
bacteria, budding in yeast, fragmentation in spirogyra, grafting etc.)		Lecture notes		Behaviour.	Charts	
9.3 Draw and label some sexual reproductive organs in plants and animals e.g. the flower in plants		Charts				
and male and female reproductive organs in mammals		Pictures				
9.4 List the advantages of asexual and sexual reproduction in plants and animals						
9.5 Note the modern advances in plant cultures in in-						
vitro and in-vivo fertilization (e.g. test tube						
babies and artificial insemination respectively						

9.6 Describe methods of measuring growth in things GENERAL OBJECTIVE: 10: Underst		tween an organi	om and its anvironment						
Specific Learning Objectives	Teachers Activities		Specific Learning	Teachers	Learning	Evaluation			
(Theory)		Resources	Objective (Practical)	Activities	Resources				
10.1 Define the following Terms (a)	i. Explain ecology,	Text book	Group students into	Guide	-Preserved Insec				
Ecology (b) Habitat (c) Community	habitat,	T	pairs for presentation	students	-Preserved foods				
10.2 Explain the interaction of living things	community,	Internet	on interaction of	group	-diagram of	Examination			
as shown by predation, parasitism,	predation,	I antique motor	living organisms,	activities.	saprophytism, commensalism				
saprophytism, commensalism	parasitism, etc. with examples.	Lecture notes	food relationships and disease causation and		etc.				
10.3 Explain the food Relationship in the	with examples.	Charts	control.		etc.				
community (e.g. food chain, food web,	ii. Describe food	Charts	Control.						
pyramid of numbers etc.)	chain, food web	Pictures							
10.4 List five useful and five harmful	etc.	Tictures							
microbes	iii. Discuss disease	Models							
10.5 State the causes and control of the	causation,	11100015							
following diseases (a) malaria (b)	prevention and								
guinea worm (c) bilharzia (d) river	control measure								
blindness	e.g. In								
10.6 State the common sources of	highlighted								
environmental pollution	diseases.								
10.7 Describe the effects of environmental									
pollution on living organisms									
10.8 List the control measures of									
environmental pollution described in									
10.6 above									
GENERAL OBJECTIVE: 11: Know N	Man's interference wit	h his environme	nt						
Specific Learning Objectives	Teachers		Specific Learning	Teachers	0	Evaluation			
(Theory)	Activities	Resources	Objective (Practical)	Activities	Resources				
11.1 Explain the composition and	I Identify various	Projector		Guide the	Soil Samples	Test			
characteristics of a fertile soil.	soil types, erosion	Text book		students in					
11.2 List the sources of soil erosion.	types, and explain	Internet		identifying	Charts of	Examination			
	causes and	Lecture notes		the soil	erosion sites				

11.3 Give three methods for prevention of	prevention of	Charts	types, man's	
soil erosion.	erosion.	Pictures	harmful	
11.4 Explain Man's activities (farming,		Tutorials	activities etc	
mining, deforestation, overgrazing,				
etc.) that accentuate disasters (e.g.				
desert encroachment, flooding etc.)				
11.5 Enumerate different methods by which				
the deleterious effects can be				
minimized.				
11.6 Explain the need for the creation of				
dams and lakes				
11.7 List the disadvantage of man-made				
lakes.				
GENERAL OBJECTIVE: 12: Underst	and the fundamental	s of inheritance		

12: Understand the fundamentals of inheritance

Specific Learning Objectives	Teachers	Learning	Specific Learning	Teachers	Learning	Evaluation
(Theory)	Activities	Resources	Objective (Practical)	Activities	Resources	
12.1 Explain the roles of	i. Discuss the	Projector	i Describe the roles of	Guide students	Projector	Test
chromosomes and genes found in the	topics		the chromosomes,	to make group		
nucleus of the cell		Text book	genes, etc.	presentations	Video/Audio	Examination
12.2 Explain the role of gametes in cross					devices	
fertilization	ii. Present	Internet	ii Practice blood			
12.3 Define hybridization, phenotypes and	notes		grouping /		Models	
genotypes		Lecture notes	compatibility etc.			
12.4 Explain the ABO blood Groupings						
12.5 Describe how sex is		Charts				
Determined in man						
12.6 Explain sex-linked Characters (e.g.		Pictures				
haemophilia)						

PROGRAMME: NATIONAL DIPLOMA (ND) IN PUBLIC HEALTH TECHNOLOGY									
COURSE TITLE: Use of English									
COURSE CODE: GNS 101									
DURATION :	DURATION: Lecture: - 30Hours Tutorial: Nil Practical: - Nil Total: 30 Hours								
CREDIT UNITS: 2	•		•						

GOAL: This course is designed to provide the student with the necessary language skills which enable him to cope effectively with the challenges of his course, to use English Language effectively in the practice of his chosen profession as well as interact with others in the society.

GENERAL OBJECTIVE: On completion of the course, the student should be able to:

- Develop appropriate study skills. 1.0
- Know the nature of language. 2.0
- 3.0 Understand the basic rules of grammar.
- 4.0 Know the essential qualities of paragraph.
- 5.0 Appreciate literacy works in English. **GENERAL OBJECTIVE:** 1.0 Develop

1.0 Develop appropriate study skills

GENERAL OBJECTIVE: 1.0 Develop appropriate study skills.									
Specific Learning Objectives	Teachers Activities	Learning	Specific Learning	Teachers	Learning	Evaluation			
(Theory)		Resources	Objective (Practical)	Activities	Resources				
Study Skills	• Explain the necessity for	Lectures note	Practice note taking.	Guide the	Lectures note	Test			
1.1 Explain the necessity for	acquiring good note			students on the					
acquiring good note	taking/making techniques.	Textbooks	Practice reading	use of	Textbooks	Examination			
taking/making techniques.	• List the methods of note-	Charts		dictionary.	Charts				
1.2 List the methods of note-	taking/making.			Guide students		Assignment			
taking/making.	Use the dictionary			to practice					
1.3 Use the dictionary correctly	correctly			reading		Class work			
1.4 List information sources in	• List information sources in			newspaper,					
the Library.	the Library.			novel, and					
1.5 Locate information in the	• Locate information in the			professional					
sources listed in 1.4 above.	sources listed in 1.4 above.			books.					
1.6 Identify good reading habits.	Identity good reading								
1.7 Explain the different	habits.								
methods of reading, viz,	• Explain the different								
scan, skim, normal and	methods of reading, viz,								
study.	scan, skim, normal and								
1.8 Use the different methods of	study.								
reading explained in 1.7	• Use the different methods								
above.	of reading explained in 1.7								
	above.								
	above.				l				

GENERAL OBJECTIVE: 2.0 Know the nature of language.

Specific Learning Objectives	Teachers Activities	Learning	Specific Learning	Teachers	Learning	Evaluation
(Theory)		Resources	Objective (Practical)	Activities	Resources	
Language	Explain the concept of	Lectures note	Demonstrate language	Guide	Lectures	Assignment
2.1 Explain the concept of	language.		skill.	students on	note	
language.	• List the characteristics of	Textbooks	e.g. Speaking,	language		Class work
2.2 List the characteristics of	language.		listening, writing,	skills.	Textbooks	
language.		Charts	reading.			

 2.3 Explain the four language skills, viz, speaking, listening, writing, reading. 2.4 Explain the functions of language.List the uses of English 2.5 Language in Nigeria, e.g. as the language of research, government, commerce, etc. GENERAL OBJECTIVE: 3 	 Explain the four language skills, viz, speaking, listening, writing, reading. Explain the functions of language. List the uses of English Language in Nigeria, e.g. as the language of research, government, commerce, etc. Understand the basic rules of g 	rammar			Charts	
Specific Learning Objectives (Theory)	Teachers Activities	Learning Resources	Specific Learning Objective (Practical)	Teachers Activities	Learning Resources	Evaluation
Grammatical Conventions 3.1 Explain grammar 3.2 Explain parts of speech.	Explain grammarExplain parts of speech.	Lectures note Textbooks Charts	Identify parts of speech	Guide students to practice grammar	Lectures note Textbooks Charts	Quiz
3.3 Analyze the use of parts of speech in sentences.3.4 Correct common errors in the use of parts of speech in sentences.3.5 Construct sentences with correct syntactic arrangement.	 Analyze the use of parts of speech in sentences. Correct common errors in the use of parts of speech in sentences. Construct sentences with correct syntactic arrangement. 	Lectures note Textbooks Charts	Explain to students usage of part of speech		Lectures note Textbooks Charts	Classwork
3.6 List punctuation marks.3.7 Enumerate the uses of punctuation marks.3.8 Punctuate a given passage.3.9 Explain idioms	 List punctuation marks. Enumerate the uses of punctuation marks. Punctuate a given passage. Explain idioms 	Lectures note Textbooks Charts	Practice the use of punctuation marks		Lectures note Textbooks Charts	Assignment
 3.10 Explain figures of speech. 3.11 Explain affixation. 3.12 Construct sentences to illustrate idioms, figures of speech and affixes. GENERAL OBJECTIVE: 4	 Explain figures of speech. Explain affixation. Construct sentences to illustrate idioms, figures of speech and affixes. O Know the essential qualities of	naragranhs				

Specific Learning Objectives (Theory)	Teachers Activities	Learning Resources	Specific Learning Objective (Practical)	Teachers Activities	Learning Resources	Evaluation
Paragraphing	• Define a managraph	Lectures	Practice paragraphing	Demonstrate	Lectures	Assignment
4.1 Define a paragraph	 Define a paragraph Name the parts of paragraph,	note	Fractice paragraphing	the use of	note	Assignment
4.2 Name the parts of paragraph,	viz., topic sentence,	Textbooks		paragraphing	Textbooks	
viz., topic sentence,	development, and	Textbooks		paragraphing	Textbooks	
development, and	conclusion/transition.	Charts		•	Charts	
conclusion/transition.	conclusion/transition.	CIIII US			CITAL US	
4.3 Explain the thematic qualities	• Explain the thematic qualities		Apply paragraphing			Assignment
of a paragraph viz, unity,	of a paragraph viz, unity,		ina text.			C
coherence and emphasis.	coherence and emphasis.	•				
4.4 Explain methods of paragraph	• Explain methods of paragraph					
development, viz, example,	development, viz, example,					
definition, comparison and	definition, comparison and					
contrasts etc.	contrasts etc.					
4.5 Explain methods of ordering	Explain methods of ordering					Assignment
details in a paragraph viz, less	details in a paragraph viz, less					
complex to more complex	complex to more complex and					
and vice versa, less important	vice versa, less important to	•				
to more important and vice	more important and vice versa,					
versa, spatial, chronological,	spatial, chronological, etc.					
etc.	Write specific paragraphs to					
4.6 Write specific paragraphs to illustrate 4.2 to 4.5 above.	illustrate 4.2 to 4.5 above.					
) A	121.				
	O Appreciate literacy works in Eng		G '6' T	TD 1	T .	T 1 4
Specific Learning Objectives	Teachers Activities	Learning Resources	Specific Learning Objective (Practical)	Teachers Activities	Learning	Evaluation
(Theory) Literature in English	• Give the meaning of Literature.	Novels	Objective (Practical) Group student in pairs	Guide	Resources	Assignment
5.1 Give the meaning of	 Trace the development of 	Novels	of five or ten to study	students to		Assignment
Literature.	literature.		and present summary	read selected		
5.2 Trace the development of	merature.		of literature	novels in		
literature.				public health		
5.3 Differentiate between the	Differentiate between the			•		Classwork
literary genres.	literary genres.					
5.4 Explain the functions of	• Explain the functions of					
literature.	literature.					

5.5 Explain the terminology of	•	Explain the terminology of			Test	
prose fiction, e.g. plot		prose fiction, e.g. plot setting,				
setting, characterization etc.		characterization etc.				
5.6 Answer an essay question	•	Answer an essay question on a				
on a given novel.		given novel.				

PROGRAMME: NATIONAL DIPLOMA (ND) IN PUBLIC HEALTH TECHNOLOGY

COURSE TITLE: Introduction to Pharmacology and Therapeutics

COURSE CODE: PHS 111

DURATION: Lecture: - 30hours Tutorial: Nil Practical: - Nil Total: 30 hours

CREDIT UNITS: 2

GOAL: The course is intended to enable students acquire foundation knowledge on pharmacology

GENERAL OBJECTIVE: On completion of the course, the student should be able to:

- 1. Understand the meaning of pharmacology.
- 2. Understand the meaning of clinical pharmacology.
- 3. Recognize drugs categories, generic and trade names of drugs.
- 4. Understand drugs and legislation and safety.
- 5. Pharmaceutical agents in the control of microbial infections and health promotion.

GENERAL OBJECTIVE: 1.0 Understand the meaning of pharmacology

Specific Learning Objectives	Teachers	Learning	Specific Learning	Teachers	Learning	Evaluation
(Theory)	Activities	Resources	Objective (Practical)	Activities	Resources	
Students are expected to:	Discuss the	Textbooks	Provide the definitions,	Engage the	Internet	Test
1.1 Define pharmacology	topics and		divisions,	students on	Textbooks	
1.2 Identify the division of pharmacology	present notes.	Notes	characteristics as	the	Notes	Examination
1.3 Describe the characteristics of properties of drugs		Lectures	required.	properties	Lectures	
1.4 Mention some terminologies used in terminologies			_	of drugs.		

GENERAL OBJECTIVE: 2.0 Understand the origin of clinical pharmacology

Specific Learning Objectives	Teachers	Learning	Specific Learning	Teachers	Learning	Evaluation
(Theory)	Activities	Resources	Objective (Practical)	Activities	Resources	
Students to:	Explain the topics	Textbooks	Trace the origin of	Moderate	Internet	Test
2.1 Explain the origin of clinical pharmacology.	with examples.		clinical pharmacology,	class	Textbooks	
2.2 Explain the following terms; drugs firms route		Notes	difference between	participation	Notes	Examination
of administration, system and drug			pharmacology and	to fit into	Lectures	
measurement, step in drugs circle.		Lectures	toxicology, other	time		
2.3 Differentiate between pharmacology and			terminologies.	schedule.		
toxicology.						

GENERAL OBJECTIVE: 3.0 Recognize dru	ıgs categorie	es, generic n	ames and th	eir ir	nteraction with human body	y system		
Specific Learning Objectives	Teach	ers	Learnii	ng	Specific Learning	Teachers	Learning	Evaluation
(Theory)	Activi	ties	Resour	ces	Objective (Practical)	Activities	Resources	
Students to:	i. Use	commonly	Textboo	oks	i. Categorize commonly	Task	Internet	Test
3.1 Identify and explain drugs categories,	avail	lable drugs t	О		available drugs.	students to	Textbooks	
		ain drug	Notes		ii. Describe the	read drug	Notes	Examination
3.2 Mention the therapeutic drugs actions and		gorization,			rationale for using	labels	Lectures	
rationale for using drugs to treat diseases	_	ric, trade	Lecture	S	drugs to treat	packets		
3.3 State reasons for the side, allergic and othe		es etc.			diseases.	etc.		
effects of drug administration		cribe the			iii. Explain the reason			
3.4 Discuss drugs abuse, misuse and drugs		tions of drug	gs		for the side effects,			
tolerance		e body.			allergic effects, etc.			
GENERAL OBJECTIVE: 4.0 Understand da			•			T-	T .	
Specific Learning Objectives	Teachers	Activities	Learning		pecific Learning	Teachers	Learning	Evaluation
(Theory)			Resources Textbooks		Objective (Practical)	Activities	Resources	
Students are to:					Enumerate drug	Guide the	Internet	Test
4.1 Define drugs legislation and safety	legislation				egulations and agencies	students	Textbooks	
4.2 Identify and explain the agencies for the	regulatory		Notes		. Explain patent medicine,	practical	Notes	Examination
approval and use of drugs	and approv			pl	harmacy, etc.		Lectures	
4.3 List the requirements of approved drugs	requiremen		Lectures					
GENERAL OBJECTIVE: 5.0 Pharmaceutica	al agents in							
Specific Learning Objectives		Teachers	Learni	_	Specific Learning	Teachers	Learning	Evaluation
(Theory)		Activities	Resour		Objective (Practical)	Activities	Resources	
5.1 The meaning, history and the concept of		Discuss th		oks	i. Explain the meaning,	Guide the	Internet	Test
pharmaceutical microbiology		topic and	Notes		history and concept	student	Textbooks	
5.2 Application of pharmaceutical microbiolog	y in the	present	Lecture	S	of pharmaceutical	activities.	Notes	Examination
control of infectious diseases		notes to th			microbiology,		Lectures	
5.3 Concept of sterilization and dis-infection		students.	Internet	t	application in			
5.4 The physical, chemical and biological meth	nods of				infectious disease			
sterilization and disinfection					control,	~		
5.5 Principles of chemotrophic synthetics antir	nicrobials				sterilization.	Guide the		
as used in the control of microbial growth						students		
5.6 Antibiotics production by microorganisms	•.				ii. Ensure adequate	activities.		
5.7 Methods of determination of potency, activ					coverage of the			
efficacy, sensitivity, minimum inhibitory a					topic.			
concentration of bacterial, antifungal, antip	rotozoal,							
antivirus and anthelminthic drugs.								

5.8 The principles of drug toxicity evaluation			
LC50/LD50			
5.9 Evaluation of microbiological quality of			
pharmaceuticals			
5.10 The principles of chemotherapy of cancer.			
5.11 Concept of drug resistance as a menace to effective			
chemotherapy of infections.			

PROGRAMME: NATIONAL DIPLOMA (ND) IN PUBLIC HEALTH TECHNOLOGY **COURSE TITLE: Introduction to Computer Science COURSE CODE: COM 111 DURATION**: Lecture: -15hours Tutorial: Nil Practical: - 30hours Total: 45hours

CREDIT UNITS: 3

GOAL: This course is designed to equip students with knowledge and skills to appreciate and use computer in daily life

GENERAL OBJECTIVE: On completion of the course, the student should be able to:

- 1. Explain the meaning of computer
- 2. Identify components of computer
- 3. Apply computer skills in daily life

GENERAL OBJECTIVE: **1.0** Explain the meaning of computer

Specific Learning Objectives	Teachers	Learning	Specific Learning	Teachers	Learning	Evaluation
(Theory)	Activities	Resources	Objective (Practical)	Activities	Resources	
Students are to:	Explain the	Computer	Provide the definition,	Ensure that	Computer	Test
1.1 Define computer	topics and ensure	Internet	history, languages, and	computers are	Internet	
1.2 State history of computer	complete	Lecture Note	types of computer.	accessible to	Lecture Note	Examination
1.3 Explain computer languages	coverage of the	Textbooks		students for the	Textbooks	
1.4 Write simple program	topics.			study.		
1.5 List and explain the types of computer						

GENERAL OBJECTIVE: 2.0 Identify the components of computer

Specific Learning Objectives	Teachers Activities	Learning	Specific Learning	Teachers	Learning	Evaluation
(Theory)		Resources	Objective (Practical)	Activities	Resources	
Students are to:	Explain the functions	Computer	Specify the functions	Task the	Computer	Test
2.1 Identify the components of computer	of various components	Internet	of each components	students to	Internet	
and their function.	of computer.	Lecture	of the computer.	identify the	Lecture Note	Examination
2.2 Explain the link between each		Note		computer.	Textbooks	
component including multi-media		Textbooks				
functions.						

GENERAL OBJECTIVE: 3.0 Apply com	GENERAL OBJECTIVE: 3.0 Apply computer skills in everyday life.									
Specific Learning Objectives	Teachers	Learning	Specific Learning	Teachers	Learning	Evaluation				
(Theory)	Activities	Resources	Objective (Practical)	Activities	Resources					
3.1 State the various uses of a computer	Task students to	Computer	Operate the computer	Guide the	Computer	Test				
3.2 Apply computer skills in epidemiology	outline the uses of		and produce some Ms	students						
3.3 Apply computer basic programming for	computer, e.g. Ms	Internet	word, Excel and Power	computer	Internet	Examination				
word processing. e.g. MS word, Excel,	word, Excel, Power		points work	practice						
Power point etc.	point	Lecture Note			Lecture Note					
3.4 Apply computer in electronic data										
management (use of internet, research e-		Textbooks			Textbooks					
government, SPSS, mini-tab, etc.										

PROGRAMME: NATIONAL DIPLOMA (ND) IN PUBLIC HEALTH TECHNOLOGY
COURSE TITLE: Immunology and Immunization
COVER CO. CO. D.

COURSE CODE: PHT 112

DURATION: Lecture: - 30hours Tutorial: Nil Practical: - 15hours Total: 45hours

CREDIT UNITS: 3

GOAL: This course is designed to equip the students with the understanding of the role of immunization in public health.

GENERAL OBJECTIVE: On completion of the course, the student should be able to:

Specific Objectives:

- 1. Explain the meaning of immunity, immunization and immunology.
- 2. Understand the general nature of immune system.
- 3. Understand antigen-antibody and allergic reaction.
- 4. Understand the significance of immunology, immunization and public health.

GENERAL OBJECTIVE: 1.0 Explain the meaning of immunity, immunization and immunology.

GENERAL ODGECTIVE: 1:0	GENERAL OBSECTIVE: 1.0 Explain the meaning of minimum y, minimum and minimum orgy.							
Specific Learning Objectives	Teachers Activities	Learning	Specific Learning	Teachers	Learning	Evaluation		
(Theory)		Resources	Objective (Practical)	Activities	Resources			
Students are to:	i.Teacher will expose	Textbooks	i. Differentiate between	Teacher will	Textbooks			
1.1 Define the following terms;	students on how to		immunity,	expose		Test		
i. Immunity	conduct inoculation.	Models	immunization,	students on	Models			
ii. Immunization	ii.Teach the students		immunology	how to		Examination		
iii. Immunology	on the concept of	Lecture	ii. Explain herd immunity	conduct	Lecture			
iv. Herd Immunity	Immunity and	note	Outline factors that	inoculation	note			
1.2 Describe method of acquiring	Immunization.		improve / suppress					
immunity and factors affecting			one's immunity					
resistance to diseases.								

Specific Learning Objectives (Theory)		Teachers Activ	ities	Learn Resou	_	Specific Learning Objective (Practic			Learning Resources	Evaluation
Students will be expected to:		i. Present lectur	res on	Textbo	ooks	i. Identify the	Textbook		Textbooks	Test
2.1 Understand the early concerns	of	early concerr	is of	Model	ls innovations,		Models		Models	
immunology and public healtl		immunology		Cold b		concerns etc of	Cold box	,	Lecture	Examination
2.2 Explain the terms antigen, ant	ibody	public Health		Vacci	ne vial	immunology and	Vaccine	vial	note	
and other components of the		-	i. Trace the impacts of		ors,	public health.	monitors	,		
immune system.		some discove	some discoveries in		nization	ii. Explain natural a		ation		
2.3 Explain the structure and synt	hesis	0.5	immunology.			artificial immuni	ty cards,			
of antibodies.		iii. Analyse antig		charts		etc	charts			
2.4 Explain the terms natural and		antibody inte	raction.							
artificial immunity.										
GENERAL OBJECTIVE: 3.0.										
Specific Learning Objectives	Teac	hers Activities	Learnin	_	-	Learning	Teachers		Learning	Evaluation
(Theory)			Resource		-	ve (Practical)	Activities		Resources	
3.1 Explain the various antigen-		nalyse antigen-	Textboo	ks		in the outcome of			Textbooks	Test
antibody reactions.	an	tibody reactions	Models		_	en-antibody	students			
3.2 Explain the various types of	ii. Ide	entify various	Cold bo		reactions,		through		Models	Examination
hypersensitivity (delayed,		pes of	Vaccine			onstrate the health	discussion			
immediate, etc.) and allergic	hy	persensitivity	monitors		•	cation of allergic			Lecture	
reactions.	iii. Sta	ate the factors	immuniz	zation		ons, delayed and		the r	note	
3.3 Describe the factors	aff	ecting antigen-	cards,		imme		practical			
affecting antigen-antibody	an	tibody reaction	charts		• •	sensitivity	demonstra	tion		
reactions.	iv. Ex	plain the			reacti					
3.4 Explain the ABO blood	co	mpatibility				the sketch of blood				
group	fac	ctor in blood				oing compatibility				
3.5 Explain the rhesus factor and	gro	ouping			iv. Demo					
rhesus incompatibilities.						tination,				
	0.77					oitation, etc.				
	.0 Und					nunization in public l		Τ.		
Specific Learning Objectives		Teachers		rning		cific Learning	Teachers		0	Evaluation
(Theory)		Activities		ources	- v	ective (Practical)	Activities	_	ources	T
4.1 Explain the mechanism of		Teacher to engag		nunizatio		nonstrate how to	Teacher to			Test
resistance of infection.		students on	wor	k plan.		inister vaccines.	engage	work	c plan.	Emanaire
4.2 Explain the relationship of		immunization	CI		(Inti	ramuscular (IM),	students on	CI		Examination

immunization Charts

4.2 Explain the relationship of infection to immunity.

Charts

4.3 Explain the interaction of drugs to	activities during		Subcutaneous and	activities		Oral
immune system.	campaigns e.g.	Vaccination	Intravenous (IV))	during	Vaccination	presentation
4.4 List common communicable	i. Planning	cards		campaigns.	cards	
diseases in Nigeria. e.g. Cholera,	ii. Awareness					
HIV/AIDS, Ebola, Lassa fever,	iii. Mobilization					
etc.	iv. Vaccination					
4.5 Explain the immune measures	v. Documentation					
against the diseases in 4.4 above.	vi. Report writing					
4.6 Distinguish between epidemics,						
endemics, and pandemics, etc.						
4.7 Describe immunization campaign,						
planning and publicity.						
4.8 Describe immunization assessment						
and surveillance.						
4.9 Describe immunization schedule in						
Nigeria						
4.10 Organize immunization sessions						

PROGRAMME: NATIONAL DIPLOMA (ND) IN PUBLIC HEALTH TECHNOLOGY								
COURSE TITLE: General Laboratory Technique								
COURSE CODE: GLT 111								
DURATION:	Lecture: - 15hours	Tutorial: Nil	Practical: - 30hours	Total: 45hours				
CREDIT UNITS: 3								
GOAL: The course is	intended to acquaint the student	s with the basic knowledge	ge of laboratory wares, equipment, u	ise and procedures in public health				

practice grant the students with the basic knowledge of laboratory wares, equipment, use and procedures in public health

GENERAL OBJECTIVE: On completion of the course, the student should be able to:

- 1. Describe the use of laboratory wares and simple laboratory equipment
- 2. Explain the calibration on glass wares
- 3. Identify the various uses of glass wares
- 4. Enumerate the principles, applications and maintenance of microscopes
- 5. State the maintenance of heating apparatuses in the laboratory
- 6. Explain the maintenance of cooling equipment
- 7. State the maintenance of temperature measurement
- 8. Explain the microtome and the maintenance of microtome tools
- 9. Identify basic electrical appliances
- 10. Discuss the care and maintenance of audio-visual aids

GENERAL OBJECTIVE: 1.0 Describe the u	ise of laborat	ory wares and simp	le laboratory equipment			
Specific Learning Objectives	Teachers	Learning	Specific Learning	Teachers	Learning	Evaluation
(Theory)	Activities	Resources	Objective (Practical)	Activities	Resources	
Students are to:	•	Bulletins		i. Guide the	Bulletins	Continuous
1.1 Identify the different type of laboratory		Charts		students	Charts	assessment
glass wares e.g. beakers, test tube,		Internet/Intranet		laboratory	Internet/Intranet	Practical
funnels, flaks (different types) etc.		Journals		activities	Journals	Assignment
1.2 State the uses of different laboratory		Lecture notes			Lecture notes	Examination
wares in 1.1		Pictorials		ii. Ensure	Pictorials	
1.3 Identify different types of fittings in the		Projector		availabilit	Projector	
laboratory e.g. for water, gas, light		Text book		y of	Text book	
1.4 Identify the different types of greases				required		
and their application on the joints				instrument		
1.5 Prepare cleaning reagents for laboratory				and		
wares				reagents.		
1.6 Explain the uses of parcel in centered						
glass, nickel, and platinum crucibles						
1.7 Clean laboratory wares using cleansing						
agents						
1.8 Store and maintain laboratory wares						

GENERAL OBJECTIVE: 2.0 Explain the calibration on glass wares

Specific Learning Objectives (Theory)	Teachers Activities	Learning Resources	Specific Learning Objective (Practical)	Teachers Activities	Learning Resources	Evaluation
•			` ` `		•	a .:
2.1 Define calibration	i. Explain the	Bulletins	Guide in practice of	Monitor	Bulletins	Continuous
2.2 Distinguish between calibration	technique	Charts	the technique	compliance with	Charts	assessment
and graduation		Internet/Intranet		procedure	Internet/Intranet	Practical
2.3 Explain the effect of heat on		Journals			Journals	Assignment
calibration laboratory glass		Lecture notes			Lecture notes	Examination
wares		Pictorials			Pictorials	
2.4 Read fluid level of calibrated		Projector			Projector	
glass wares e.g. water level,		Text book			Text book	
mercury level						
2.5 Graduate simple laboratory						
glassware, using standard						
volumes						

GENERAL OBJECTIVE: 3.0 Identify the various uses of glass wares

Specific Learning Objectives	Teachers	Learning	Specific Learning	Teachers	Learning	Evaluation
(Theory)	Activities	Resources	Objective (Practical)	Activities	Resources	
3.1 Identify types of glass ware suitable	i. Explain the	Bulletins	i. Moderate the practical		Bulletins	Continuous
for storage in the laboratory	procedures.	Charts	activities.		Charts	assessment
3.2 Identify types of glass wares suitable		Internet/Intranet			Internet/Intranet	Practical
for containers e.g. for storage of	ii. Narrate the	Journals	ii. Monitor the result.		Journals	Assignment
photosensitive reagents and some	safety	Lecture notes			Lecture notes	Examination
acids	issues to be	Pictorials			Pictorials	
3.3 Identify other laboratory storage	looked	Projector			Projector	
container e.g. plastics and ceramics	after.	Text book			Text book	
3.4 State the precautions necessary in the						
storage of chemicals e.g. Hydrofluoric						
an in plastic containers e.g. sodium						
metal in paraffin and silver nitrate in						
amber containers on a balance.						

GENERAL OBJECTIVE: 4.0 Enumerate the principles, applications and maintenance of microscopes

Specific Learning Objectives	Teachers	Learning	Specific Learning	Teachers	Learning	Evaluation
(Theory)	Activities	Resources	Objective (Practical)	Activities	Resources	
4.1 Identify a simple microscope and its parts		Bulletins			Bulletins	Continuous
4.2 List the various types of microscopes in use		Charts			Charts	assessment
in the laboratory		Internet/Intranet			Internet/Intranet	Practical
4.3 Describe the use of various microscopes in		Journals			Journals	Assignment
2.2 above		Lecture notes			Lecture notes	Examination
4.4 State the range of magnification of		Pictorials			Pictorials	
microscope		Projector			Projector	
4.5 Outline the principles of operation of various		Text book			Text book	
types of microscope						
4.6 Describe and apply the various procedures in						
the routine maintenance and minor repair of						
microscope						

GENERAL OBJECTIVE: 5.0 State the maintenance of heating apparatuses in the laboratory

Specific Learning Objectives (Theory)	Teachers Activities	Learning Resources	Specific Learning Objective (Practical)	Teachers Activities	Learning Resources	Evaluation
5.1 Identify the various heating apparatus like		Bulletins	3		Bulletins	Continuous
burners, hot plate, autoclaves etc.		Charts			Charts	assessment
5.2 Describe the application of each type in 3.1		Internet/Intranet			Internet/Intranet	Practical
above		Journals			Journals	Assignment

 5.3 Heat water and the liquids, powder etc using Bunsen burner, hot plate etc. 5.4 Sterilize various object using autoclave 5.5 Heat various objects using oven 5.6 Describe and apply the various procedures in the routine maintenance and / minor repair of autoclave, ovens and other laboratory 		Lecture notes Pictorials Projector Text book			Lecture notes Pictorials Projector Text book	Examination
heating apparatuses GENERAL OBJECTIVE: 6.0 Explain the	maintenance (of cooling equipme	nt			
Specific Learning Objectives (Theory)	Teachers Activitie	,	Specific Learning Objective (Practical)	Teachers Activities	Learning Resources	Evaluation
 6.1 Identify apparatus for cooling e.g. refrigerator freeze driver, water circulators 6.2 Explain the principle of freezing 6.3 Explain the different application of cooling system in 7.1 below 6.4 Identify the various part of apparatuses in 4.1 above 6.5 Describe and apply the procedure for the routine maintenance and minor repair of the apparatus in 4.1 above 		Bulletins Charts Internet/Intranet Journals Lecture notes Pictorials Projector Text book			Bulletins Charts Internet/Intranet Journals Lecture notes Pictorials Projector Text book	Continuous Assessment Practical Assignment Examination
GENERAL OBJECTIVE: 7.0 State the ma	intenance of t	emperature measur				
- T	Teachers Activities	Learning Resources	Specific Learning Objective (Practical)	Teachers Activities	Learning Resources	Evaluation
 7.1 Identify apparatus for temperature measurement e.g. thermometer; pyrometer thermometer 7.2 Explain the operating principle of temperature measuring devices listed in 7.1 above 7.3 Distinguish between the various temperature scale e.g. Fahrenheit, Kelvin Celsius etc. 7.4 Measure temperature using scale in 7.3 above 		Bulletins Charts Internet/Intranet Journals Lecture notes Pictorials Projector Text book	ŭ ,		Bulletins Charts Internet/Intranet Journals Lecture notes Pictorials Projector Text book	Continuous assessment Practical Assignment Examination

7.5 Describe and apply the procedure for the routine maintenance and minor repair of the apparatus identified in 7.1 above						
GENERAL OBJECTIVE: 8.0 Explain the	microtome an	d the maintenance	of microtome tools	•	·	·

Specific Learning Objectives	Teachers	Learning	Specific Learning	Teachers	Learning	Evaluation
(Theory)	Activities	Resources	Objective (Practical)	Activities	Resources	
8.1 Identify different types of microtome		Bulletins			Bulletins	Continuous
8.2 Identify the different parts of microtome and		Charts			Charts	assessment
explain their functions		Internet/Intranet			Internet/Intranet	Practical
8.3 Explain the working principles of microtome		Journals			Journals	Assignment
8.4 Identify types of knives used in the		Lecture notes			Lecture notes	Examination
microtome		Pictorials			Pictorials	
8.5 Sharpen microtome knives		Projector			Projector	
8.6 Describe paraffin wax embedded tissue		Text book			Text book	
8.7 Cut section						
8.8 Identify faults in section cutting and remedy						
the fault						
8.9 Explain the care of microtome and knives						

GENERAL OBJECTIVE: 9.0 Identify basic electrical appliances

G '6" I 'Ol' 4'		ı	C •6• T •	7 1	•	T 1 4'
Specific Learning Objectives	Teachers	Learning	Specific Learning	Teachers	Learning	Evaluation
(Theory)	Activities	Resources	Objective (Practical)	Activities	Resources	
9.1 Explain the following terms AC and DC		Bulletins			Bulletins	Continuous
supplies LT and HT		Charts			Charts	assessment
9.2 Identify various types of distribution and		Internet/Intranet			Internet/Intranet	Practical
connection		Journals			Journals	Assignment
9.3 Identify the result of wrong wiring		Lecture notes			Lecture notes	Examination
9.4 Identify the different types of wiring		Pictorials			Pictorials	
9.5 Explain the method and importance of proper		Projector			Projector	
carting		Text book			Text book	
9.6 Identify different types of switches e.g. SPDT,						
DPST control gear relays cut outs etc.						
9.7 Identify different types of protective wiring						
devices e.g. relays cut outs, fuses etc.						
9.8 Draw the various electrical symbols						
9.9 Apply such symbols in 10.9 below for circuit						
diagrams						

GENERAL OBJECTIVE: 10.0 Discuss the care and maintenance of audio-visual aids								
Specific Learning Objectives	Teachers	Learning	Specific Learning	Teachers	Learning	Evaluation		
(Theory)	Activities	Resources	Objective (Practical)	Activities	Resources			
10.1 Describe the methods and undertake		Bulletins			Bulletins	Continuous		
proper care and routine maintenance		Charts			Charts	assessment		
(1) overhead projectors (2) lenses,		Internet/Intranet			Internet/Intranet	Practical		
recording and playback heads		Journals			Journals	Assignment		
10.2 Describe the precautionary measures		Lecture notes			Lecture notes	Examination		
involved in the handling of projectors,		Pictorials			Pictorials			
tape recorders etc.		Projector			Projector			
10.3 Mend tapes and films.		Text book			Text book			

PROGRAMME	: NATIONAL DIPLOMA (ND) IN PUBLIC HEALTH TECHNOLOGY

COURSE TITLE: Introduction to Anatomy and Physiology

COURSE CODE: DTH 115

DURATION: Lecture: - 30hours Tutorial: Nil Practical: - 15hours Total: 45 hours

CREDIT UNITS: 3

GOAL: The rationale of the course is to acquaint the students with the basic knowledge of the structure and functions of the human body.

GENERAL OBJECTIVE: On completion of the course, the student should be able to:

- 1. Understand the structure of human body
- 2. Understand the human cell structure and its function
- 3. Know the different types of human tissues and their function.
- 4. Understand the different systems of the body, their structures and function
- 5. Know the body fluids, electrolytes and acid, base balance
- 6. Understand the homeostatic mechanism of the body

GENERAL OBJECTIVE: 1.0 Understand the structure of human body

Specific Learning Objectives	Teachers	Learning	Specific Learning	Teachers	Learning	Evaluation
(Theory)	Activities	Resources	Objective (Practical)	Activities	Resources	
Students to:	Lecture	Textbooks	Explain the terms in	Explain with	Textbooks	Test
1.1 Explain the following terms associated		Lecture notes	relations to each other	the aid of	Lecture	
with anatomical description; anterior;	Discussion	Anatomical Models		models.	notes	Examination
posterior; median; lateral; superior;		Charts			Anatomical	
interior; planter; palmar; proximal;					Models	
distal; internal, external, prone, supine,					Charts	
coronal						

1.2 List the terms associated with the body				
movement: Extension, flexion,				
abduction, abduction, pronation,				
supination, protrusion, intrusion,				
rotation, circumduction, protraction,				
retraction				
1.3 Describe the external parts of the				
human body				
1.4 Describe the human body curvatures				
CENEDAL ODJECTIVE, 2.0. Understand the house	- 11 - 4 4 1 - 4 - C 4	•		

GENERAL OBJECTIVE: 2.0 Understand the human cell structure and its function

Specific Learning Objectives	Teachers	Learning	Specific Learning	Teachers	Learning	Evaluation
(Theory)	Activities	Resources	Objective (Practical)	Activities	Resources	
Students to:	Teacher to teach	Textbooks	Describe the human	Use Model	Textbooks	Test
2.1 Describe the human cell	students the type of		cells and explain the	to make		
2.2 Draw a well labeled diagram of the	Microscope and	Lecture notes	functions	explanations	Lecture notes	Examination
cell and its components (constituent)	how to use them.			_		
2.3 Describe the different components of		Anatomical			Anatomical	
the cell	Teacher to teach	Models			Models	
2.4 Explain the functions of the	students how to					
components of the cell	view a typical cell					
2.5 Identify a typical human cell under	on a microscope					
the microscope						

GENERAL OBJECTIVE: 3.0 Know the different types of human tissues and their function

Specific Learning Objectives	Teachers	Learning	Specific Learning	Teachers	Learning	Evaluation
(Theory)	Activities	Resources	Objective (Practical)	Activities	Resources	
Students to:	-Lectures	Textbooks	Describe the functions	Guide students	Textbooks	Test
3.1 Define tissue			of tissues, locations	activities	Lecture notes	
3.2 Describe the types of tissue; epithelial,	-Discussion	Lecture notes	etc.		Anatomical	Examination
connective, nervous and muscular tissues.					Models	
3.3 Identify each of the tissue mentioned in 3.1		Anatomical				
above		Models				
3.4 Draw and label the types of tissues in 3.2						
above						
3.5 Identify the locations of tissue sin the						
human body						
3.6 Classify each of the four major types of						
tissues						

3.7 State the components of blood, namely;					
cells and plasma.					
3.8 List types of blood cells; red blood cells					
white blood cells and platelets.					
3.9 List the component of plasma – protein					
(globulin, albumin); fibrinogen, salts					
(electrolytes); urea, glucose, water and					
other substances such as prothrombin,					
vitamin and enzymes.					
3.10 List the functions of the different types of					
tissue.					
3.11 State the functions of the different types					
of tissues					
3.12 List calcified tissues of the body.					
3.13 Define the functions of calcified tissues of					
the body					
	41.00	 	·	·	·

GENERAL OBJECTIVE: 4.0 Understand the different systems of the body, their structures and function

Specific Learning Objectives (Theory)	Teachers Activities	Learning Resources	Specific Learning Objective (Practical)	Teachers Activities	Learning Resources	Evaluation
4.1 Define the systems of the body	Teacher should	Textbooks	Define and explain the	Use models and	Textbooks	Test
4.2 Enumerate the different systems of	use the skeleton		functions of various	posterto		
the body e.g. skeletal, muscular,	to teach	Lecture notes	systems of the body.	demonstrate the	Lecture notes	Examination
nervous, digestive, respiratory etc.	students about			functions of the		
4.3 Identify the two major groups of	the types of	Anatomical		systems	Anatomical	
bones of the skeletal system axial	bone in human	Models			Models	
and appendicular	anatomy.					
4.4 Identify the major bones in each						
group						
4.5 State the functions of the skeletal						
system						
4.6 Draw and label the main bones of the						
skeletal system						
4.7 Identify the different types of joints						
in the skeletal system						
4.8 List examples of the different types						
of joints in the skeletal system						

4.9 Draw and label the major joints in the skeletal system 4.10 List the different types of muscles that make up the Muscular system 4.11 Draw and label different types muscles in 4.10 above 4.12 State the structure differences in the muscles in 4.10 above 4.14 State the functions of the different types of muscles in 4.10 above 4.15 Identify the following group of muscles; 4.15 Identify the following group of muscles; 5. Muscles of facial expression 6. Muscles of facial expression 7. Muscles that serve the head 8. Muscles that serve the chest 9. Muscles that serve the himb, etc. 8. Cardiovascular System 8. 16 List the composition of the cardiovascular system. 8. 17 Draw and label the major components of heart 8. Respiratory System 8. 19 List the composition of the respiratory system 9. 20 Draw and the label component of the respiratory system 9. 21 Describe the mechanism of respiration 9. 10 Digestive System 9. 22 Describe the digestive system				
4.10 List the different types of muscles that make up the Muscular system 4.11 Draw and label different types muscles in 4.10 above 4.12 State the structure differences in the muscles in 4.10 above 4.14 State the functions of the different types of muscles in 4.10 above 4.15 Identify the following group of muscles: - Muscles of facial expression - Muscles of facial expression - Muscles of facial expression - Muscles that serve the head - Muscles that serve the chest - Muscles that serve the limb, etc. - Cardiovascular System -	4.9 Draw and label the major joints in			
that make up the Muscular system 4.11 Draw and label different types muscles in 4.10 above 4.12 State the structure differences in the muscles in 4.10 above 4.14 State the functions of the different types of muscles in 4.10 above. 4.15 Identify the following group of muscles; - Muscles of facial expression - Muscles of facial mastication - Muscles of facial mastication - Muscles that serve the head - Muscles that serve the elest - Muscles that serve the elest - Muscles that serve the limb, etc. Cardiovascular System 4.16 List the composition of the cardiovascular system 4.17 Draw and label the major components of heart Respiratory System 4.20 Draw and the label component of the respiration Digestive System 4.22 Describe the digestive system 4.22 Describe the digestive system	the skeletal system			
4.11 Draw and label different types muscles in 4.10 above 4.12 State the structure differences in the muscles in 4.10 above 4.14 State the functions of the different types of muscles in 4.10 above. 4.15 Identify the following group of muscles: - Muscles of facial expression - Muscles of facial mastication - Muscles shat serve the head - Muscles that serve the head - Muscles that serve the head - Muscles that serve the limb, etc. Cardiovascular System 4.16 List the composition of the cardiovascular system 4.17 Draw and label the major components of heart Respiratory System 4.19 List the composition of the respiratory system 4.20 Draw and the label component of the respiratory system 4.21 Describe the mechanism of respiration Digestive System 4.22 Describe the digestive system	4.10 List the different types of muscles			
muscles in 4.10 above 4.12 State the structure differences in the muscles in 4.10 above 4.14 State the functions of the different types of muscles in 4.10 above. 4.15 Identify the following group of muscles; - Muscles of facial expression - Muscles of facial mastication - Muscles that serve the head - Muscles that serve the head - Muscles that serve the limb, etc Muscles that serve the limb, etc Cardiovascular System - 4.16 List the composition of the cardiovascular system 4.17 Draw and label the major components of heart - Respiratory System - 4.19 List the composition of the respiratory system - 4.20 Draw and the label component of the respiratory bystem - 4.21 Describe the mechanism of respiration - Digestive System - 4.22 Describe the digestive system - 4.22 Describe the digestive system	that make up the Muscular system			
4.12 State the structure differences in the muscles in 4.10 above 4.14 State the functions of the different types of muscles in 4.10 above. 4.15 Identify the following group of muscles: - Muscles of facial expression - Muscles of facial mastication - Muscles that serve the head - Muscles that serve the chest - Muscles that serve the arms - Muscles that serve the limb, etc. Cardiovascular System 4.16 List the composition of the cardiovascular system. 4.17 Draw and label the major components of heart Respiratory System 4.19 List the composition of the respiratory system 4.20 Draw and the label component of the respiratory bystem 4.21 Describe the mechanism of respiration Digestive System 4.22 Describe the digestive system	4.11 Draw and label different types			
muscles in 4.10 above 4.14 State the functions of the different types of muscles in 4.10 above. 4.15 Identify the following group of muscles; - Muscles of facial expression - Muscles of facial mastication - Muscles that serve the head - Muscles that serve the chest - Muscles that serve the chest - Muscles that serve the limb, etc. Cardiovascular System 4.16 List the composition of the cardiovascular system. 4.17 Draw and label the major components of heart Respiratory System 4.19 List the composition of the respiratory system 4.20 Draw and the label component of the respiratory system 4.21 Describe the mechanism of respiration Digestive System 4.22 Describe the digestive system 4.22 Describe the digestive system	muscles in 4.10 above			
4.14 State the functions of the different types of muscles in 4.10 above. 4.15 Identify the following group of muscles; - Muscles of facial expression - Muscles of facial mastication - Muscles that serve the head - Muscles that serve the chest - Muscles that serve the limb, etc. Cardiovascular System 4.16 List the composition of the cardiovascular system. 4.17 Draw and label the major components of heart Respiratory System 4.19 List the composition of the respiratory system 4.20 Draw and the label component of the respiratory system 4.21 Describe the mechanism of respiration Digestive System 4.22 Describe the digestive system 4.23 Describe the digestive system	4.12 State the structure differences in the			
types of muscles in 4.10 above. 4.15 Identify the following group of muscles; - Muscles of facial expression - Muscles of facial mastication - Muscles that serve the head - Muscles that serve the chest - Muscles that serve the arms - Muscles that serve the limb, etc. Cardiovascular System 4.16 List the composition of the cardiovascular system. 4.17 Draw and label the major components of heart Respiratory System 4.19 List the composition of the respiratory system 4.20 Draw and the label component of the respiratory system 4.21 Describe the mechanism of respiration Digestive System 4.22 Describe the digestive system	muscles in 4.10 above			
4.15 Identify the following group of muscles; - Muscles of facial expression - Muscles of facial mastication - Muscles that serve the head - Muscles that serve the chest - Muscles that serve the dring the factor of the cardiovascular System 4.16 List the composition of the cardiovascular system. 4.17 Draw and label the major components of heart Respiratory System 4.19 List the composition of the respiratory system 4.10 List the composition of the respiratory system 4.11 District the composition of the respiratory system 4.12 Describe the mechanism of respiration Digestive System 4.22 Describe the digestive system 4.22 Describe the digestive system	4.14 State the functions of the different			
muscles; - Muscles of facial expression - Muscles of facial mastication - Muscles that serve the head - Muscles that serve the chest - Muscles that serve the chest - Muscles that serve the limb, etc. Cardiovascular System 4.16 List the composition of the cardiovascular system. 4.17 Draw and label the major components of heart Respiratory System 4.19 List the composition of the respiratory system 4.20 Draw and the label component of the respiratory system 4.21 Describe the mechanism of respiration Digestive System 4.22 Describe the digestive system 4.22 Describe the digestive system	types of muscles in 4.10 above.			
- Muscles of facial expression - Muscles of facial mastication - Muscles that serve the head - Muscles that serve the chest - Muscles that serve the arms - Muscles that serve the limb, etc. Cardiovascular System 4.16 List the composition of the cardiovascular system. 4.17 Draw and label the major components of heart Respiratory System 4.19 List the composition of the respiratory system 4.20 Draw and the label component of the respiratory system 4.21 Describe the mechanism of respiration Digestive System 4.22 Describe the digestive system	4.15 Identify the following group of			
- Muscles of facial mastication - Muscles that serve the head - Muscles that serve the chest - Muscles that serve the limb, etc. Cardiovascular System 4.16 List the composition of the cardiovascular system. 4.17 Draw and label the major components of heart Respiratory System 4.19 List the composition of the respiratory system 4.20 Draw and the label component of the respiratory system 4.21 Describe the mechanism of respiration Digestive System 4.22 Describe the digestive system	muscles;			
- Muscles that serve the head - Muscles that serve the chest - Muscles that serve the arms - Muscles that serve the limb, etc. Cardiovascular System 4.16 List the composition of the cardiovascular system. 4.17 Draw and label the major components of heart Respiratory System 4.19 List the composition of the respiratory system 4.20 Draw and the label component of the respiratory system 4.21 Describe the mechanism of respiration Digestive System 4.22 Describe the digestive system	- Muscles of facial expression			
- Muscles that serve the chest - Muscles that serve the limb, etc. Cardiovascular System 4.16 List the composition of the cardiovascular system. 4.17 Draw and label the major components of heart Respiratory System 4.19 List the composition of the respiratory system 4.20 Draw and the label component of the respiratory system 4.21 Describe the mechanism of respiration Digestive System 4.22 Describe the digestive system	- Muscles of facial mastication			
- Muscles that serve the arms - Muscles that serve the limb, etc. Cardiovascular System 4.16 List the composition of the cardiovascular system. 4.17 Draw and label the major components of heart Respiratory System 4.19 List the composition of the respiratory system 4.20 Draw and the label component of the respiratory system 4.21 Describe the mechanism of respiration Digestive System 4.22 Describe the digestive system	- Muscles that serve the head			
- Muscles that serve the limb, etc. Cardiovascular System 4.16 List the composition of the cardiovascular system. 4.17 Draw and label the major components of heart Respiratory System 4.19 List the composition of the respiratory system 4.20 Draw and the label component of the respiratory system 4.21 Describe the mechanism of respiration Digestive System 4.22 Describe the digestive system	- Muscles that serve the chest			
Cardiovascular System 4.16 List the composition of the cardiovascular system. 4.17 Draw and label the major components of heart Respiratory System 4.19 List the composition of the respiratory system 4.20 Draw and the label component of the respiratory system 4.21 Describe the mechanism of respiration Digestive System 4.22 Describe the digestive system	- Muscles that serve the arms			
4.16 List the composition of the cardiovascular system. 4.17 Draw and label the major components of heart Respiratory System 4.19 List the composition of the respiratory system 4.20 Draw and the label component of the respiratory system 4.21 Describe the mechanism of respiration Digestive System 4.22 Describe the digestive system	- Muscles that serve the limb, etc.			
cardiovascular system. 4.17 Draw and label the major components of heart Respiratory System 4.19 List the composition of the respiratory system 4.20 Draw and the label component of the respiratory system 4.21 Describe the mechanism of respiration Digestive System 4.22 Describe the digestive system	Cardiovascular System			
4.17 Draw and label the major components of heart Respiratory System 4.19 List the composition of the respiratory system 4.20 Draw and the label component of the respiratory system 4.21 Describe the mechanism of respiration Digestive System 4.22 Describe the digestive system	4.16 List the composition of the			
components of heart Respiratory System 4.19 List the composition of the respiratory system 4.20 Draw and the label component of the respiratory system 4.21 Describe the mechanism of respiration Digestive System 4.22 Describe the digestive system	cardiovascular system.			
Respiratory System 4.19 List the composition of the respiratory system 4.20 Draw and the label component of the respiratory system 4.21 Describe the mechanism of respiration Digestive System 4.22 Describe the digestive system	4.17 Draw and label the major			
4.19 List the composition of the respiratory system 4.20 Draw and the label component of the respiratory system 4.21 Describe the mechanism of respiration Digestive System 4.22 Describe the digestive system	components of heart			
respiratory system 4.20 Draw and the label component of the respiratory system 4.21 Describe the mechanism of respiration Digestive System 4.22 Describe the digestive system	Respiratory System			
4.20 Draw and the label component of the respiratory system 4.21 Describe the mechanism of respiration Digestive System 4.22 Describe the digestive system	4.19 List the composition of the			
the respiratory system 4.21 Describe the mechanism of respiration Digestive System 4.22 Describe the digestive system	respiratory system			
4.21 Describe the mechanism of respiration Digestive System 4.22 Describe the digestive system	4.20 Draw and the label component of			
respiration Digestive System 4.22 Describe the digestive system	the respiratory system			
Digestive System 4.22 Describe the digestive system	4.21 Describe the mechanism of			
4.22 Describe the digestive system	respiration			
	Digestive System			
4.00 T 1 4.1 C.1	4.22 Describe the digestive system			
4.23 List the composition of the	4.23 List the composition of the			
digestive system				
4.24 Draw and label the major	S C			
components of the digestive system				
4.25 Describe the process of food	4.25 Describe the process of food			
digestion	digestion			

GENERAL OBJECTIVE: 5.0 Know the body fluids, electrolytes and acid, base balance								
Specific Learning Objectives	Teachers	Learning	Specific Learning	Teachers	Learning	Evaluation		
(Theory)	Activities	Resources	Objective (Practical)	Activities	Resources			
5.1 Explain body fluid	-Lecture	Textbooks	Explain electrolyte	Teacher to	Textbooks	Test		
5.2 State the locations of body fluid.			balance in the body etc.	demonstrate	Lecture notes			
5.3 Define the following; acid, base,	-Discussion	Lecture notes		to students on	Anatomical	Examination		
electrolytes, acid-base balance.				how to use	Models			
5.4 List examples of each of 4.3 above		Anatomical		the litmus				
5.5 Describe the different composition of body		Models		paper in acid-				
fluid				base balance				
5.6 List the electrolyte composition of body				test				
fluid								
5.7 Explain the functions of each of 5.3 above								
5.8 Explain the hormonal control of body fluid								

GENERAL OBJECTIVE: 6.0 Understand the homeostatic mechanism of the body

Specific Learning Objectives (Theory)	Teachers Activities	Learning Resources	Specific Learning Objective (Practical)	Teachers Activities	Learning Resources	Evaluation
6.1 Define homeostasis	Lecture	Textbooks	Describe body	Task Students on	Textbooks	Test
6.2 Explain the maintenance of the		Lecture notes	homeostasis.	Classwork.	Lecture notes	
internal homeostasis.	Discussion	Anatomical			Anatomical	Examination
		Models			Models	

PROGRAMME: NATIONAL DIPLOMA (ND) IN PUBLIC HEALTH TECHNOLOGY COURSE TITLE: Citizenship Education COURSE CODE: GNS 127 DURATION: Lecture: - 30hours Tutorial: Nil Practical: - Nil Total: 30 hours CREDIT UNITS: 2

GOAL: This course is designed to expose the student to the basic concepts, principles and provisions of the Nigerian Constitution

GENERAL OBJECTIVE: On completion of the course, the student should be able to:

- 1 Understand the constitution of Nigeria.
- 2 Understand the federal system of government in Nigeria
- 3 Know the constitutional rights and obligations of Nigerian citizens.
- 4 Understand citizenship.
- 5 Know the fundamental objectives and directive principles of state policy of Nigeria.

8 - 3		Learning	1 1	Teachers	Learning	Evaluation
3 /		Resources	y \ /	Activities	Resources	
1.1 Explain the term constitution. 1.2 Distinguish the different types of constitutions. 1.3 Highlight some provisions of an	ropics and make references to some sections of the constitution.	Lecture notes Textbooks Nigeria Constitution.	i. Define the terms associated with constitution. ii. Identify different	Guide students to develop a draft of association's constitution.	-Lecture notes -Textbooks - Nigeria Constitution -Association's Constitution .	Test Examination Group Presentation Class work
GENERAL OBJECTIVE: 2.0: Understa	· · · · · · · · · · · · · · · · · · ·				1	
Specific Learning Objectives	Teachers	Learning	Specific Learning	Teachers	Learning	Evaluation
(Theory)	Activities	Resources	Objective (Practical)	Activities	Resources	
2.1 Describe a Federation2.2 Distinguish a federation from a	Discuss the topics and give notes	Lecture note	difference between	Engage students in	-Lecture notes	Assignment
confederation 2.3 Outline the basis for the federal		Textbooks	federation and confederation.	on the topics.	-Textbooks	
system in Nigeria. 2.4 Examine the evolution, structure and		Constitution of Nigeria	ii. Narrate the		-Constitution	

evolution, the

structure and functions of the

functions of the federal system in

Nigeria.

2.5 Analyse the relationships among t three tiers of government in Niger 2.6 Evaluate the revenue allocation						federal system in Nigeria.			
formula in operation in Nigeria.									
2.7 Compare and contrast other									
Federations with Nigeria.									
GENERAL OBJECTIVE: 3.0: Know the constitutional rights and obligations of Nigerian citizens									
Specific Learning Objectives		Teachers		Learning		Specific Learning	Teachers	Learning	Evaluation
(Theory)		Activities		Resources	5	Objective (Practical)	Activities	Resources	
3.1 Examine the significance of right	ts	Discuss the		Lecture no		Explain the	Engage	Lecture notes	Test
and obligations in Nigeria.		fundamental ri		Textbooks		significance of	students in		
3.2 Access government's protection of		as contained in	the			protection of	interactions	-Textbooks	Examination
fundamental rights as contained i	in the	Nigeria		Constitution		fundamental human	on the topic.		
Nigeria Constitution.		Constitution.		of Nigeria		right.		-Constitution	Assignment
GENERAL OBJECTIVE: 4.0 : Understand citizenship									
Specific Learning Objectives	Teacl	ners	Lear	rning	Spe	ecific Learning	Teachers	Learning	Evaluation
(Theory)	Activ	ities	Resc	ources	Ob	jective (Practical)	Activities	Resources	
a. Discuss the significance of	i. Hig	hlight the	-Lec	ture notes		Explain the significance	:	-Lecture notes	Test
citizenship.	U	nificance,				of citizenship.			
b. Analyse the principles and		nciples and	-Tex	tbooks		Analyse the principles a	nd	-Textbooks	Examination
benefits of citizenship.		nefits of				benefits of citizenship.			
c. Explain the differences in the		izenship.	-Nig			iii. Express the differences in		-Journals	
modes of acquiring citizenship.		tline the	Cons	stitution		modes of acquiring			
d. Evaluate the merits and		ferent ways of				citizenship.		-Nigeria	
demerits of each type of		taining		ociation		Learn the processes of		Constitution	
citizenships,		izenship,	Cons	stitution		acquisition and		(1999) as	
e. Analyse the basis for the		rits and				withdrawal of citizensh	ip,	amended	
acquisition and /or withdrawal		merits,			1	merit and demerits.			
of Nigerian citizenship.		quisition and							
f. Examine the benefits derivable		thdrawal							
from Nigerian citizenship. GENERAL OBJECTIVE: 5.0 : Known		ocedures.	activo	s and directi	ive n	principles of state policy	of Nigeria		
								T	E14:
Specific Learning Objectives (Theory)		Feachers Activities		earning Sesources		Specific Learning Objective (Practical)	Teachers Activities	Learning Resources	Evaluation
5.1 State the fundamental obligations		Present lecture of		Lecture note		i. Identify the	Guide students	-Lecture notes	Test
government as provided in the		the topics and	" "				to make	Lecture notes	1050
constitution.		nake notes	l _	Γextbooks		obligations of	contribution	-Textbooks	Examination

5.2 Explain the general provisions of the fundamental objectives and directive	available to the	Nicorio	government, general,	during class	Tournala	Assignment
principles of state policy.	students.	-Nigeria Constitution	provision, directive principles, policies on	session.	-Journals	Assignment
5.3 Explain the political, economic,		Constitution	culture, mass media,		-Nigeria	
social and education policies of		-Association	national ethics and		Constitution	
•		Constitution	duties of the citizens			
Nigeria.		Constitution			(1999) as amended	
5.4 Explain the directive principles and			etc.		amended	
policy of the Nigerian government						
on culture, the mass media, national						
ethics and duties of the citizen.						
5.5 Assess the conformity, observance						
and application of the fundamental						
objectives and directive principles of						
state policy by governments and						
people of Nigeria.						
5.6 Recommend improvements on the						
provisions, conformity, observance						
and application of the fundamental						
objectives and directive principles of						
state policy.						

PROGRAMME:	PROGRAMME: NATIONAL DIPLOMA (ND) IN PUBLIC HEALTH TECHNOLOGY								
COURSE TITLE: INTRODUCTION TO MEDICAL SOCIOLOGY									
COURSE CODE: GNS 213									
DURATION :	Lecture: - 30 HOURS	Lecture: - 30 HOURS Tutorial: NIL Practical: - Total: 30 HOURS							
CREDIT UNITS	: 2			•					
GOAL: This cour	GOAL: This course is designed to introduce students to the general concept of sociology in health care delivery system								
GENERAL OBJ	ECTIVE: On completion of the	ne course, the student shou	ıld be able to:						

- 1.0. Define sociological concepts e.g sociology, socialization, family, population etc
- 2.0. Explain the social and cultural aspect of medicine and epidemiology.
- 3.0. Explain how family/society respond to illness.
- 4.0. Explain the relationship between societal class and illness.
- 5.0. Describe the contemporary nature of the practice of traditional and modern medicine.
- 6.0. Explain causes and effect of mental disorder.
- 7.0. Explain how to care for vulnerable groups in the society (aged, destitute, handicapped e.t.c).
- 8.0. Explain the present socio-cultural medical problems in Nigeria today.

GENERAL OBJECTIVE	: 1.0 Defi	ne sociological conce	epts						
Specific Learning	Teachers A		Learning	_	Learning	Teachers		Learning	Evaluation
Objectives (Theory)			Resources		ve (Practical)	Activitie		Resources	
1.1. Define sociology	• Teachers sl		Projector	Non a	applicable	Non appl	icable	Non applicable	Test
1.2. Explain Socialization	sociology		Text book						Examination
1.3. Define Family unit		noura empiani me	Internet						
1.4. Explain population	concept of	Socialization	Lecture not	es					
1.5. Define Community	• Teachers sl	nound define the	Charts						
structure etc	terms fami	ry, population,	Pictures						
	community	Cic	Tutorials						
GENERAL OBJECTIVE		lain the socio- cultura							
Specific Learning	Teachers	Activities	Learning		ic Learning	Teache		Learning	Evaluation
Objectives (Theory)			Resource	-	tive (Practical)	Activit		Resources	
Sociology, medicine and		s should explain the	Projector		pplicable	Non ap	plicable	Non applicable	
epidemiology		nd scope of medical	Text boo	k					Examination
2.1 Explain the nature and	sociolog	•	Internet						
scope of medical		s should define the	Lecture n	otes					
sociology		g terms: social	Charts						
2.2 Define social		ology, culture, social	Pictures						
epidemiology, culture,	health.		Tutorials						
social health and social	- Teachers	s should explain the							
determinations of healt	concept	of health and ill							
2.3 Explain the concept of	· ·	ealth and behavior.							
"health" and "ill		s should explain the							
health", health and behavior and factors		eterminants of health							
affecting behavior		s should explain the							
2.4 Analyze the social-		ffecting behavior							
cultural implication of		s should analyze the							
ill – health		ıltural implication of							
	ill-health		6 11		1 . '11				
GENERAL OBJECTIVE		lain the causes and w		• •			I # -	T	T
Specific Learning Objecti (Theory)	ves	Teachers Activitie		Learning Resources	Specific Lear Objective (Pr	_	Teache Activit		Evaluation
Social response to common	tropical	Teachers should s		rojector					Test
diseases		causes of the follo	_	ext book					Examination
3.1 Identify the causes of the	•	diseases: bilharzia	,	nternet					
tropical diseases e.g. bi	lharzias,	chronic malaria, s	sleeping L	ecture notes					

chronic malaria, sleeping sickness, river blindness, poliomyelitis, sickle cell anemia, conjunctivitis, worm infestation, kwashiorkor, hepatitis, cardiovascular diseases, diabetes, hypertension, mental illness 3.2 Justify family/societal response to each of the diseases stated in 2.1 above GENERAL OBJECTIVE: 4.0 Exp.	sickness, river blindness, poliomyelitis, sickle cell anemia, conjunctivitis, worm infestation, kwashiorkor, hepatitis, cardiovascular diseases, diabetes, hypertension, mental illness.	Charts Pictures Tutorials	d illness			
Specific Learning Objectives(Theory)	Teachers Activities	Learning Resources	Specific Learning Objective (Practical)	Teachers Activities	Learning Resources	Evaluation
Classify diseases relationships 4.1.Categorize diseases into diseases of the affluent and diseases of poverty e.g. hypertension, cardiovascular diseases, diabetes, stroke, obesity, kwashiorkor, kidney diseases etc. 4.2.Explain the relationships between social class and the diseases in 3.1 above	categorize diseases into diseases of affluence and poverty with examples in each case	Projector Text book Internet Lecture notes Charts Pictures Tutorials		medicine		Test Examination
Specific Learning Objectives	Teachers Activities	Learning	Specific Learning	Teachers	Learning	Evaluation
(Theory)		Resources	Objective (Practical)	Activities	Resources	
Modern and traditional health care delivery 5.1. Describe the socio- cultural setting of modern health institutions 5.2. Describe the characteristics unique to traditional health institutions 5.3. Explain the health implication of traditional medicine to the health delivery system	 Teachers should describe the socio-cultural setting of modern and traditional health institutions and their characteristics Teachers should explain health implication of traditional medicine to the health delivery system Teachers should guide the students in determining 					Test Examination

5.4. Describe the best method of health care delivery using mode hospitals, health centers, dispensaries as points of references	the best method of health care delivery.					
Specific Learning Objectives	Teachers Activities	Learning	Specific Learning	Teachers	Learning	Evaluation
(Theory) Psychiatric health care	Teachers should differentiate	Resources Projector	Objective (Practical)	Activities	Resources	Test
6.1. Define mental health and	between mental health and	Text book				Examination
mental illness 6.2.Differentiate between	mental illness; psychosis and neurosis.	Internet Lecture notes				
	Teachers should describe	Charts				
6.3. Describe the organization	organization of	Pictures				
	psychiatric/neuromental	Tutorials				
	hospitals and their development					
of Neuromental hospitals in Nigeria	in Nigeria.					
	Teachers should explain the advantages and disadvantages					
4,1	of the psychiatric hospitals					
psychiatric hospitals •	Teachers should list causes of					
	mental illness and analyze the					
to mental illness in Nigeria	social response to mental illness in Nigeria					
600	Teachers should state the					
promoting mental health in	measures for promoting mental					
	health in Nigeria.					
Specific Learning Objectives (Theory)	Teachers Activities	Learning Resources	Specific Learning Objective (Practical)	Teachers Activities	Learning Resources	Evaluation
Care for the vulnerable groups	Teachers should explain the		Objective (Fractical)	Activities	Resources	Test
7.1. Explain the term vulnerability	term vulnerability	Text book				Examination
7.2. Define different vulnerable	• Teachers should state the	Internet				
groups	different vulnerable groups	Lecture notes				
7.3. List and explain the physical, mental, social and psychological	• Teachers should explain the	Charts Pictures				
needs for vulnerable groups	, will 5 wis 110 t wis 51 till 5	Tutorials				
7.4. Examine the health needs of	vulnerable groups					
vulnerable groups						

7.5. State how to conditioned the physical and social environment to meet the needs of vulnerable groups	 Teachers should discuss health needs of the vulnerable groups Teachers should explain conditioning of physical social environment for vulnerable groups 	the				
Specific Learning Objectives(Theory)	Teachers	Learning	Specific Learning	Teachers	Learning	Evaluation
	Activities	Resources	Objective (Practical)	Activities	Resources	
Public health care problems of the	 Teachers should 	Projector	Preparation of term	Organize the	Projector	Test
country	describe the present	Text book	papers on:	students into	Text book	Examination
8.1.Describe the present health pattern i	n health pattern in	Internet	. Evaluation of health	groups for the	Internet	Assessment
Nigeria utilizing current WHO	Nigeria and analyze	Lecture notes	services in selected	term papers	Lecture notes	of Seminar
reports, bulletins, journals and	the associated	Charts	communities in the		Charts	presentation
newspapers.	health problems	Pictures	country		Pictures	
8.2. Analyze the current health problems	and their solutions.	Tutorials	. Evaluation of the		Tutorials	
and their solutions as per current	 Teachers should 		role of social		Seminar	
available sources	state the social		agencies in the			
8.3. Identify social agencies and their	agencies in Health		development			
contribution to health e.g. Red cross			and promotion of			
Nigeria Social Insurance Trust Fund			health care in			
(NSITF), Civil Society Organization	1		Nigeria			
(CSO)						

PROGRAMME: NATIONAL DIPLOMA (ND) IN PUBLIC HEALTH TECHNOLOGY									
COURSE TITLE: INTRODUCTION TO HEALTH EDUCATION AND PROMOTION									
COURSE CODE: PH	COURSE CODE: PHT 121								
DURATION: Lecture: - 30 Hour Tutorial: Nil Practical: - 15hour Total: 45Hours									
CDEDIT LINITS: 3									

GOAL: This course is designed to enable students acquire knowledge and skills on how to help communities appreciate the needs for the practice of healthy living.

GENERAL OBJECTIVE: On completion of the course, the student should be able to:

- 1. Understand the basic concepts of Health Education and promotion
- 2. Understand the importance of adequate planning in the implementation of effective health education and promotion
- 3. Understand the elements of good communication in Public Health
- Identify the various audio-visual aids used in health education and promotion and how to prepare them

- 5. Understand the preparation of teaching/health talk for the various groups of clients in the community.
- 6. Identify the strategies for effective health education in the community

GENERAL OBJECTIVE: 1.0 Understand the basic concepts of Health Education

Specific Learning Ob	jectives	Teachers	Learning	Specific Learning	Teachers	Learning
(Theory)		Activities	Resources	Objective (Practical)	Activities	Resources
1.1 Outline the history	y of health education	Lectures	Bulletins	Demonstrate health talk	Guide students to	Bulletins
and promotion in	development and		Charts	presentations.	prepare and	Charts
developed countri	es	Discussion	Internet/Intranet		present a health	Internet/Intranet
1.2 Outline the scope	of health education		Journals		talk to a	Journals
and promotion			Lecture notes		hypothetical	Lecture notes
1.3 Explain the princi	ple of health		Pictorials		Community.	Pictorials
education and pro	motion		Projector			Projector
1.4 List various method	ods of health		Text book			Text book
education and pro	motion					

GENERAL OBJECTIVE: 2.0 Understand the importance of adequate planning in the implementation of effective health promotion

Specific Learning Objectives	Teachers	Learning	Specific Learning	Teachers	Learning	Evaluation
(Theory)	Activities	Resources	Objective (Practical)	Activities	Resources	
2.1 List the key point to be considered in	Lectures	Bulletins	Carry out planning	Task the	Bulletins	Continuous
planning of an effective health		Charts	activity for health	students to	Charts	assessment
education and promotion program	Discussion	Internet/Intranet	education and	observe	Internet/Intranet	Practical
2.2 Describe the barrier to effective health		Journals	promotion.	barriers to	Journals	Assignment
education and promotion e.g. language		Lecture notes		effective	Lecture notes	Examination
barrier etc.		Pictorials		health	Pictorials	
2.3 Plan health education and promotion		Projector		education and	Projector	
program for a given situation.		Text book		promotion.	Text book	

GENERAL OBJECTIVE: 3.0 Understand the element of good communication

Specific Learning Objectives	Teachers	Learning	Specific Learning	Teachers	Learning
(Theory)	Activities	Resources	Objective	Activities	Resources
			(Practical)		
3.1 Define communication	Lectures	Bulletins	i. Define	Task the	Bulletins
3.2 Identify the component of		Charts	communication,	students on	Charts
communication process	Discussion on the	Internet/Intranet	outline the	good	Internet/Intranet
3.3 List the various types of	elements of good	Journals	component	communication	Journals
communication	communication,	Lecture notes	ii. Describe the	skills.	Lecture notes
3.4 Describe various methods of	components,	Pictorials	types, methods		Pictorials
communication	methods etc.	Projector			Projector

4.5 Identify barriers to good			Text book	and barriers to		To	ext book	
communication				communication.				
GENERAL OBJECTIVE: 4.0 Id	lentify th	ne various audi	o-visual aids used	in health education and ho	w to prepare the	em		
Specific Learning Objectives		Teachers	Learning	Specific Learning	Teachers		Learning	
(Theory)		Activities	Resources		Activities		Resources	
4.1 Define audio-visual aids		Explanation	Bulletins	Demonstrate the	Student to be		Bulletins	
4.2 Describe various types of audio		Discussion	Charts	various audio-visual	guided on how		Charts	
visual aids used in health educ	ation		Internet/Intranet	aids used in health	develop an Au		Internet/Intra	anet
and promotion.			Journals	education and	visual aid used		Journals	
4.3 Identify various audio-visual a	.ids		Lecture notes	promotion.	health education		Lecture note	s
e.g. overhead projectors etc			Pictorials		and promotion		Pictorials	
4.4 Execute a health education plan			Projector		Teacher to		Projector	
using all necessary audio-visua			Text book		demonstrate for		Text book	
4.5 Develop a typical visual aid that					students on ho			
be used to teach a group of clie	ents.				develop Audio			
					visual aids use			
					health education			
CENEDAL ODJECTIVE FOX		1.1 . /	61 1.1 . 11	6 1	and promotion		•.	
GENERAL OBJECTIVE: 5.0 U	nderstan	id the steps/pro	ocess of health talk	for the various groups of	clients in the co	mmur	nty	
Specific Learning Objectives	Teach	ers	Learning	Specific Learning	Teachers	Lear	ning	Evaluatio
(Tlans area)	A 40 0	4	_	Objective (Practical)	Activities	Reso	urces	
(Theory)	Activi	ues	Resources	Objective (Fractical)	Activities	ILCOU	ui ccs	
` '	Teache		-Lecture notes	Demonstrate role play	Teacher to	Bulle		Continuou
` '	Teache				Teacher to		etins	Continuou
5.1 Develop a plan for talk for various groups of clients	Teache	er to	-Lecture notes	Demonstrate role play	Teacher to	Bulle	etins	
5.1 Develop a plan for talk for various groups of clients 5.2 Conduct micro-teaching	Teache	er to rise students ay and plan	-Lecture notes -Textbooks	Demonstrate role play	Teacher to supervise	Bulle	etins ts net/Intranet	assessmen
5.1 Develop a plan for talk for various groups of clients 5.2 Conduct micro-teaching	Teache superv	er to rise students ay and plan	-Lecture notes -Textbooks -Charts	Demonstrate role play	Teacher to supervise students	Bulle Chart Internal Journ	etins ts net/Intranet	assessmen Practical
5.1 Develop a plan for talk for various groups of clients5.2 Conduct micro-teaching5.3 Evaluate the effective health	Teache superv	er to rise students ay and plan	-Lecture notes -Textbooks -Charts -Models	Demonstrate role play	Teacher to supervise students role play	Bulle Chart Internal Journ	etins ts net/Intranet nals ure notes	assessmen Practical Assignme
5.1 Develop a plan for talk for various groups of clients5.2 Conduct micro-teaching5.3 Evaluate the effective health	Teache superv	er to rise students ay and plan	-Lecture notes -Textbooks -Charts -Models -Role Play	Demonstrate role play	Teacher to supervise students role play and plan	Bulle Char Intern Journ Lectu	etins ets net/Intranet nals nre notes rials	assessmen Practical Assignme
5.1 Develop a plan for talk for various groups of clients5.2 Conduct micro-teaching5.3 Evaluate the effective health	Teache superv	er to rise students ay and plan	-Lecture notes -Textbooks -Charts -Models -Role Play -Jingles	Demonstrate role play	Teacher to supervise students role play and plan	Bulle Char Intern Journ Lectu Picto	etins tis net/Intranet nals ure notes rials ctor	assessmen Practical Assignme
5.1 Develop a plan for talk for various groups of clients5.2 Conduct micro-teaching5.3 Evaluate the effective health education and promotion	Teache superv role pl health	er to rise students ay and plan talk.	-Lecture notes -Textbooks -Charts -Models -Role Play -Jingles -Questionnaires	Demonstrate role play and health talk planning	Teacher to supervise students role play and plan health talk.	Bulle Chart Intern Journ Lectu Picto Proje	etins tis net/Intranet nals ure notes rials ctor	assessmen Practical Assignme
5.2 Conduct micro-teaching5.3 Evaluate the effective health	Teache superv role pl health	er to rise students ay and plan talk. rategies for ef	-Lecture notes -Textbooks -Charts -Models -Role Play -Jingles -Questionnaires	Demonstrate role play and health talk planning	Teacher to supervise students role play and plan health talk.	Bulle Chart Intern Journ Lectu Picto Proje Text	etins tis net/Intranet nals ure notes rials ctor	assessmen Practical Assignme

6.1 List various strategies for	Teaching students	-Lecture notes	State various	Teaching	Lecture notes
effective health education and	how to develop	-Textbooks	strategies for effective	students how to	Textbooks
promotion.	various strategies	-Charts	health education and	develop various	Charts
6.2 Develop various strategies for	for teaching	-Models	promotion.	strategies for	Models
teaching members of the	community	-Role Play		teaching	Role Play
community for solving health	member by	-Jingles		community	Jingles
problems and promotion.	teacher.	-Questionnaires		member by	Questionnaires
				teacher.	

PROGRAMME: NATIONAL DIPLOMA (ND) IN PUBLIC HEALTH TECHNOLOGY								
COURSE TITLE: APPLIED CHEMISTRY								
COURSE CODE: GNS112								
DURATION :	Lecture: - 30	Tutorial:	Practical: - 15	Total: 45 HRS				
CREDIT UNITS: 3								

GOAL: This course is designed to provide the students with basic knowledge of chemistry and its application in Public Health Practice

GENERAL OBJECTIVE: On completion of the course, the student should be able to:

Activities

- 1.0 Understand the concepts and the principles of Chemistry and its importance to Public Health Practice.
- 2.0 Understand the nature of matter.

(Theory)

- 3.0 Know acids, bases, salts and their characteristics.
- 4.0 Understand electrolytes/electrolysis.
- 5.0 Understand the application of knowledge of carbon and hydrocarbon compounds to Public Health practice.

Resources

6.0 Know the classification and structure of organic and inorganic compounds and their application on Public Health practice.

7.0 Understand atomic structure and a	nuclear energy.		11	1					
GENERAL OBJECTIVE: 1.0 Understand the concepts, principles of chemistry and its importance to Environmental Health									
Specific Learning Objectives	Teachers	Learning	Specific Learning	Teachers	Learning	Evaluation			
(Theory)	Activities	Resources	Objective (Practical)	Activities	Resources				
1.1 Define Science, Chemistry	Teacher should	Text books	Student should explain	Teacher to	Projector	Assignment			
1.2 List branches of chemistry and	explain chemistry,	White Board	chemistry, branches	guide and	Video/Audio				
their relevance to public health	branches and	Marker	and relevance to public	provide	devices	Test			
practice	relevance to public	Multimedia	health.	support to the	Models				
1.3 Explain the nature and	health.	projector/Laptops		students.		Examination			
importance of chemistry to									
public health practice.									
GENERAL OBJECTIVE: 2.0	Understand Nature of	f Matter							
Specific Learning Objectives Te	achers Learnin	g Specific	Learning Teachers	Learr	ing Resources	Evaluation			

Objective (Practical)

Activities

 2.1 Describe physical and chemical properties of matter 2.2 Describe physical and chemical changes in the body. 2.3 Explain the chemical symbols of elements. 2.4 Describe classification of elements, compounds and mixtures. 2.5 Discuss particulate nature of matter: Atoms Molecules Ions 2.6 Explain structure and chemical combinations 	• Lecture • Discussion	Charts White Board/Marker Packages containing materials on nature of matter Textbooks Multimedia projectors Computers.	2.1Demonstrate Physical and chemical change using substances like water and air 2.4 Demonstrate separation of mixtures e.g. blood, air and their application 2.5 Use simple formulae and equations 2.6 Apply symbols, formulae of elements and components	Demonstrate and assist students perform activities on 2.1, 2.4 2.5 2.6	 Water Bunsen burner Flask Whole blood Air Spinning machine Test tube Centrifuge Acid compound Base compound Litmus papers 	Assignment Test Examination
---	------------------------	--	---	--	--	-----------------------------------

GENERAL OBJECTIVE: 3.0 Know acids, bases, salts and their characteristics

Specific Learning Objectives (Theory)	Teachers Activities	Learning Resources	Specific Learning Objective (Practical)	Teachers Activities	Learning Resources	Evaluation
 3.1 Define the following: acids, bases and salts 3.2 Discuss properties and uses of acids, bases and salts. 3.3 Discuss types of salts and their uses. 3.4 Describe:- efflorescent, deliquescent 3.5 List examples of properties of metals and non-metals. 3.6 Discuss hydrolysis of salts. 3.7 Discuss titration acid and base 3.8 Discuss simple volumetric analysis 	• Lecture • Discussion	 Samples of compounds i.e. Acids Base, Salts etc. Acid Base Pipettes/Beakers 	 3.2 Measure the acidity and alkalinity of acid and base compounds. 3.6 Demonstrate hydrolysis of salts. 3.7 Titrate acid and base 3.8 Perform simple volumetric analysis 	Demonstrate and assist students perform activity on 3.6. Demonstrate and assist students perform activity on 3.7, 3.8 and 3.9. Demonstration	 Water Bunsen burner Flask Acid compound Base compound Litmus papers Water Bunsen burner Flask Acid compound Base compound Litmus papers 	Assignment Test Examinatio n
GENERAL OBJECTIVE: 4.0 U	nderstand Elec	trolysis /Electrolyte	<u> </u>	·	·	·

Specific Learning Objectives	Teachers	Learning	Specific Learning	Teachers	Learning	Evaluation
(Theory)	Activities	Resources	Objective (Practical)	Activities	Resources	
4.1 Define the following	Lecture	Multimedia				Quiz
- Electrolytes	 Discussion 	projector/				Test
- Non-electrolytes	Demonstrate	Laptops				Examination
- Electrolysis	electrolysis					
4.2 Describe ionic theory and ionization	and guide					
4.3 Describe electrolytes/non-electrolytes	student to do					
4.4 Explain Electrolysis	return					
4.5 Enumerate the composition of air	demonstration					
4.6 Explain air pollution and purification						
4.7 Explain water pollution and purification						
 4.2 Describe ionic theory and ionization 4.3 Describe electrolytes/non-electrolytes 4.4 Explain Electrolysis 4.5 Enumerate the composition of air 4.6 Explain air pollution and purification 	and guide student to do return demonstration			D. H. M	Id Destin	

GENERAL OBJECTIVE: 5.0 Understand the application of knowledge of carbon and hydrocarbon compounds to *Public Health* Practice.

Specific Learning Objectives	Teachers	Learning	Specific Learning	Teachers	Learning	Evaluation
(Theory)	Activities	Resources	Objective (Practical)	Activities	Resources	
5.1 Define Carbons	Lecture	Sample of:				Quiz
5.2. List the properties of elements	 Discussion 	 Alcohol 				Test
5.3. Describe hydrocarbons (saturated and		• Amino				Examination
unsaturated)		• Carbon				
5.4. Discuss the following functional group		• Acids				
chemistry		Multimedia				
- Alcohol		projector				
- Amines		projector				
- Carbonyls						
- Carboxylic acid etc.						

GENERAL OBJECTIVE: 6.0 Know the classification and structure of organic and inorganic compounds and their application on Public Health Practice.

Tactice.						
Specific Learning Objectives	Teachers	Learning	Specific Learning	Teachers	Learning	Evaluation
(Theory)	Activities	Resources	Objective (Practical)	Activities	Resources	
6.1 Define and Classify the following:	• Lecture	• White				Quiz
- Organic compounds	 Discussion 	board/Marker				Test
- Inorganic compounds	• Sketch out	 Textbooks 				Examination
6.2 Enumerate examples of oxidation	examples of the	• Charts				
products of alcohol.	structures for	Multimedia				
6.3. State examples and uses of aldehydes	the students to	Projector				
in EHT practice	observe.	/Laptops				

 6.4. Describe the Chemical Compounds of the following:- Carbohydrates Proteins Fatty acids Lipids 6.5. State the biological importance of some organic and inorganic substances. 6.6 Draw the biochemical structures of organic and in-organic compounds and list examples. GENERAL OBJECTIVE: 7.0 Understand and the following structures of the following structures of organic and in-organic compounds and list examples. 	otomic structur	 Card board paper Card board paper Multimedia projector Markers 				
Specific Learning Objectives	Teachers	Learning Resources	Specific Learning	Teachers	Learning	Evaluation
(Theory)	Activities	Learning Resources	Objective (Practical)	Activities	Resources	Lvaidation
 7.1. Discuss natural and artificial radioactivity 7.2. List radioactive elements 7.3 Discuss types of radiations from radioactive elements e.g. alpha, beta, and gamma. 7.4 Explain nuclear structure and radioactive decay 7.5 Explain the following: Radio—isotopes nuclear reaction nuclear energy e.g. nuclear fusion 7.7 Identify health hazards from radioactive substance 7.8 State precautionary measures taken against biochemical and radioactive substances used in the Health Care System. 	Lecture Discussion	 Sample of substance with radio- active elements Multimedia projector/Laptops 				Quiz Test Examination

COURSE TITLE: INTRODUCT COURSE CODE: PHT 122	TION TO BIOSTATIS	TICS				
DURATION Lecture: - 3	0	Cutorial:	Practical: - 15		Total: 45 HRS	
CREDIT UNITS: 3	1		-		1	
GOAL: The course is designed to	provide the students wit	h knowledge of biostat	tistics in health administrat	tion		
GENERAL OBJECTIVE: On co	mpletion of the course,	he student should be a	ble to:			
1.0 Understand the fundamenta	ls of Biostatistics.					
2.0 Understand the interpretation	on and presentation of H	ealth data using descrip	ptive statistical.			
3.0 Understand basic statistica						
4.0 Understand the importance						
GENERAL OBJECTIVE: 1.0 T				1		
Specific Learning Objectives	Teachers Activities	Learning	Specific Learning	Teachers	Learning	Evaluation
(Theory)		Resources	Objective (Practical)	Activities	Resources	
1.1 Define Biostatistics.	1.1 The teacher define		Student should define	Teacher to	Bulletins	Continuou
1.2 Explain the sources of	Biostatistics.	Charts	biostatistics and	guide and	Charts	assessmen
Biostatistics.	1.2 The teacher explai		explain its sources, and	support the	Internet/Intranet	Practical
1.3 Describe the types of	the sources of	Journals	types. They should also	students in	Journals	Assignme
Biostatistics:	Biostatistics.	Lecture notes	explain the uses of	achieving	Lecture notes	Examinati
 Descriptive 	1.3 The teacher explai		biostatistics.	the task	Pictorials	
• Inferential	the uses of	Projector			Projector	
1.4 Explain the uses of	Biostatistics.	Text book			Text book	
Biostatistics.						
GENERAL OBJECTIVE: 2.0 U			<u> </u>	1	1	1
Specific Learning Objectives	Teachers	Learning	Specific Learning	Teachers	Learning	Evaluati
(Theory)	Activities	Resources	Objective (Practical)	Activities	Resources	<u> </u>
2.1 Compute and present health da		Bulletins	Student should	Teacher	Bulletins	Continuo
using the following statistical to		Charts	compute health data	should	Charts	assessme
a. Measures of central tendency	computes the da			support the	Internet/Intranet	
b. Measures of variability		Journals	table, measures of	students to	Journals	Assignm
c. Graphs, Charts and Tables		Lecture notes	central tendency and	reach	Lecture notes	Examina
		Projector	variability.	conclusion	Projector	
		Projector Text book			Projector Text book	
GENERAL OBJECTIVE: 3.0 C	ompute statistical test		rvices	<u> </u>	1 CXL DOOK	
Specific Learning Objectives	Teachers Activity	Ψ	Specific Learning	Teachers	Learning	Evaluati
Specific Dearming Objectives	I cachers Activity	Resources	Objective (Practical)			Lanuali

3.1 Compute Inferential statistical tests	The teacher explains	White board,	Student shall compute	Teacher	White board,	Test
using-	how to compute the	text books,	statistical tests.	should	text books,	Examination
a) Measures of Association with linear	statistical test using	journals,		support and	journals,	Assignment
correlation graph.	relevant statistical tools.	charts,		provide	charts,	
b) Spearman's Rank Order		Pictures,		guidance to	Pictures,	
Correlation.		Projector		achieve the	Projector	
c) Pearson Correlation.		Marker		task.	Marker	
d) Chi- Square test.						
e) Student T-test						
CENEDAL ODIECENE AGELL	4 7 47 4 7 9	0 4 1 4	41 41 1 TO 1 11 TT 141			

GENERAL OBJECTIVE: 4.0 Understand the types and importance of vital statistics in Public Health

Specific Learning Objectives	Teachers Activities	Learning	Specific Learning	Teachers	Learning	Evaluation
(Theory)		Resources	Objective (Practical)	Activities	Resources	
4.1 Define Vital statistics	The teacher should	Pictures	Students should define		Pictures	Test
4.2 Explain:	define vital	Charts	vital statistics and		Charts	Examination
i) Vital event	statistics and	Books	explain some vital		Books	Assignment
ii) Rate	explain some vital	Projector	events, rates and ratios.		Projector	
iii) Ratio	events, rates and	White board			White board	
iv) Proportion	ratios.	Marker			Marker	
4.3 Discuss types of vital statistics						
Morbidity statistics						
Mortality statistics						
Natality statistics						
Nuptiality statistics						
Migration statistics and						
Environmental Sanitation-related statistics						
4.4 Compute morbidity statistics such as						
incidence rate, attack rate, point prevalence						
rate, relative risk rate.						
4.5 Compute morbidity statistics such as crude						
death rate, specified death rates, infant						
mortality.						
4.6 Calculate Nuptiality statistics such as						
marriage rate, child-woman ratio, divorce						
rates, sex ratio and dependency ratio.						
4.7 Compute Natality statistics like Birth rate,						
Fertility rate and rate of natural increase,						
population doubling time						

4.8 Compute migration statistics e.g immigration			
and emigration rates, net migration rate.			
4.9 Compute Environmental sanitation statistics			
like cheopis index, Aedes-egypti index,			
sanitation service coverage, occupancy ratio,			
per capita solid waste generation etc.			

PROGRAMME: NATIONAL DIPLOMA (ND) IN PUBLIC HEALTH TECHNOLOGY

COURSE TITLE: PUBLIC HEALTH NUTRITION

COURSE CODE: PHT 123

DURATION: Lecture: - 45 Tutorial: Nil Practical: - Nil Total: 45HRS

CREDIT UNITS: 3

GOAL: The goal of the course is to prepare the students with understanding of public health nutrition.

GENERAL OBJECTIVE: On completion of the course, the student should be able to:

- 1. Understand the meaning and scope of public health nutrition
- 2. Understand nutritional problems
- **3.** Understand food hygiene and food sanitation.

GENERAL OBJECTIVE: 1.0 Understand the meaning and scope of public health nutrition

Specific Learning Objectives	Teachers	Learning	Specific Learning	Teachers	Learning	Evaluation
(Theory)	Activities	Resources	Objective (Practical)	Activities	Resources	
1.1 Meaning and scope of public health	Explanation and	Bulletins	Demonstrate food	Teacher to	Bulletins	Continuous
nutrition	discussion of	Charts	processing and	guide the	Charts	assessment
1.2 Chemistry & physiology of food	the topics	Internet/Intranet	preservation methods	students to	Internet/Intranet	Practical
1.3 Nutritive value of food & planning of	_	Journals	in the communities	prepare	Journals	Assignment
balanced/adequate diet		Lecture notes		hypothetical	Lecture notes	Examination
1.3 Food processing & preservation		Pictorials		balanced	Pictorials	
		Projector		diet.	Projector	
		Text book			Text book	

GENERAL OBJECTIVE: 2.0 Understand nutritional problems.

Specific Learning Objectives	Teachers	Learning	Specific Learning	Teachers	Learning	Evaluation
(Theory)	Activities	Resources	Objective (Practical)	Activities	Resources	
Identify the following:	Teacher to	Bulletins	i. Identify Nutritional	Students to be	Bulletins	Continuous
2.1 Nutritional problems	intensively teach	Charts	assessment	guided on the	Charts	assessment
2.2 LBW	students on the	Internet/Intranet	ii. Identify Nutritional	application of	Internet/Intranet	Practical
2.3 PEM/PCM	application of	Journals	surveillance & growth	nutritional	Journals	Assignment
2.4 Exophthalmia	nutritional	Lecture notes	monitoring	surveillance	Lecture notes	Examination
2.5 Nutritional anemia	surveillance and	Pictorials			Pictorials	

 2.6 IDD 2.7 Endemic fluorosis 2.8 Nutritional factors in selected diseases 2.9 Identify Nutritional assessment 2.10 Identify Nutritional surveillance & growth monitoring 	growth monitoring	Projector Text book		and growth monitoring.	Projector Text book Model	
GENERAL OBJECTIVE: 3.0 Ur	derstand food hygie	ene and food Sanita	tion.			
Specific Learning Objectives	Teachers	Learning	Specific Learning	Teachers	Learning	Evaluation
(Theory)	Activities	Resources	Objective (Practical)	Activities	Resources	
Identify:	Teacher to	Bulletins	Demonstrate the	Teacher to	Bulletins	Continuous
3.1 Food hygiene inspection & legal	teach students	Charts	procedure for food	teach students	Charts	assessment
provisions	on how to carry	Internet/Intranet	inspection	on how to	Internet/Intranet	Practical
3.2 Food toxicants, food addiction, food	out routine	Journals		carry out	Journals	Assignment
fortification, food adulteration	food premises	Lecture notes		routine food	Lecture notes	Examination
3.3 Food standards	inspection	Pictorials		premises	Pictorials	
3.4 Nutrition policy &programs	using the	Projector		inspection	Projector	
3.5 Applied aspects of nutrition (dietetics) approved	Text book		using the	Text book	
3.6 NAFDAC and consumer protection	checklist and			approved		
agency/SON acts in relation to	report writing			checklist and		
prevention of food adulteration and	format.			report writing		
various licensing procedure related to				format.		

PROGRAMME: NATIONAL DIPLOMA (ND) IN PUBLIC HEALTH TECHNOLOGY									
COURSE TITLE: SUBSTANCE USE AND ABUSE									
COURSE CODE: PH	COURSE CODE: PHT 124								
DURATION:	Lecture: - 30 Hour	Tutorial: Nil	Practical: - Nil	Total: 30Hours					
CREDIT UNITS: 2									

CREDII UNIIS: 2

them

GOAL: This course is designed to equip students with ample knowledge on how to handle drugs and substance addicts.

GENERAL OBJECTIVE: On completion of the course, the student should be able to:

- 1. Understand the concept of drug and substance use and abuse.
- 2. Understand the objectives of drug /substance education
- 3. Understand the determinants and predisposing factors to drug/substance use and abuse.
- 4. Understand the procedure for withdrawal on drugs and other substances abused.
- 5. Understand the effects of drug and substance abuse.
- 6. Understand Rehabilitation procedures for drug addicts in the community.

GENERAL OBJECTIVE: 1.0	Understand the concept of	f drug and subs	tance	use and abuse.					
Specific Learning Objectives	Teachers Activities	Learning		Specific Learnin	_	Teachers	Learning	Evaluation	
(Theory)		Resources		Objective (Pract	ical)	Activities	Resources		
1.1 Define drug and substance	The teacher should	Projector		Exhibit some		The teacher	Projector	Test	
use, abuse, misuse etc.	explain the meaning o			commonly abused		should exhibit	Textbook	Examination	
1.2 Enumerate the commonly	drug and substance us	e Internet		drugs in the socie	ty	some of the	Internet	Class	
abused drugs and substances		Lecture not	Lecture note con		commonly	Lecture note	presentation		
in the community.	relevant examples.	Charts				abused drugs in	Charts	by student	
		Pictures				the society.	Pictures		
		Whiteboard	1				Whiteboard		
		Marker					Marker		
		Flip chart					Flip chart		
GENERAL OBJECTIVE: 2.0 Understand the objectives of drug/substance education.									
Specific Learning Objectives	Teachers Activities	Learning	_	cific Learning	Tea	chers Activities	Learning	Evaluation	
(Theory)		Resources		ective (Practical)			Resources		
2.1 State the objectives of	The teacher should	Projector		cher should guide		teacher should	Projector	Test	
drug/substance abuse	state the objectives of	Textbook		ents presentation		e the objectives of	Textbook		
	drug/substances abuse.	Internet		bjectives of drug		g/substance abuse.	Internet	Examination	
2.2 Explain the importance of	Teacher should also	Lecture note		stance abuse and		cher should also	Lecture note		
drug and substance abuse	explain the importance	Charts		importance of		ain the	Charts	Class	
	of drug and substance	Pictures		and substance		ortance of drug	Pictures	presentation	
	abuse education to	Whiteboard	abus	se education.		substance abuse	Whiteboard	by students	
	individuals, families,	Marker				cation to	Marker		
	Communities at large					viduals, families,			
						nmunities at large			
GENERAL OBJECTIVE: 3.0			osing				Τ	Τ=	
Specific Learning Objectives	Teachers Activities	Learning		Specific Learning		Teachers	Learning	Evaluation	
(Theory)		Resources		Objective (Practic		Activities	Resources		
3.1 Explain the determinants and		Projector		The teacher should		The teacher	Projector	Test	
predisposing factors to drug/				demonstrate to the		should moderate	Textbook		
substance use and abuse eg.	the determinants and	Internet		students some of th		the demonstration	Internet	Examination	
Unemployment, peer	predisposing factors to		e	predisposing factor		of the drama,	Lecture note	G1	
influence, parental up-brings				drug/substance abu		video clip etc.	Charts	Class	
etc	abuse.	Pictures	.	using a short drama	a or		Pictures	presentation	
		Whiteboard	1	video clip.			Whiteboard	by students	
		Marker					Marker		
GENERAL OBJECTIVE: 4.0	Understand the procedure	for withdrawal	I from	drugs and other sub	ostanc	es abused.			

Specific Learning Objectives	Teachers Activities	Learning	Specif	ic Learning	Teacl	hers	Learning	Evaluation
(Theory)		Resources	Objec	tive (Practical)	Activ	rities	Resources	
4.1 Explain the various	The teacher should	Projector	The te	acher should	The to	eacher should	Projector	Test
procedures for withdrawal	explain the various	Textbook	demon	strate the	guide	the	Textbook	
from drug/substance abuse.	procedure for	Internet	proced	ure leading to	perce	ntage of the	Internet	Examination
_	withdrawal from	Lecture note	total w	rithdrawal from	demo	nstration in	Lecture note	
4.2 Explain the withdrawal	drugs/substance	Charts	drugs/	drugs/ substance abuse the class		ass for better	Charts	Class
syndrome.	He should also explain	Pictures	drug w	ith students	under	standing.	Pictures	presentation
	the withdrawal	Whiteboard	partici	pation		-	Whiteboard	by students
	syndrome	Marker					Marker	-
GENERAL OBJECTIVE: 5.0	Understand the effect of d	rugs and substa	nce abus	e.				
Specific Learning Objectives	Teachers Activitie	s Learnin	ıg S	pecific Learning]	Teachers	Learning	Evaluation
(Theory)		Resource	ces C	bjective (Practical	1) A	Activities	Resources	

Specific Learning Objectives	Teachers Activities	Learning	Specific Learning	Teachers	Learning	Evaluation
(Theory)		Resources	Objective (Practical)	Activities	Resources	
5.1 Explain the effects of	Teacher should list and	Projector	Teacher should	Teacher should	Projector	Test
drug/substance abuse to the	explain the effects of	Textbook	demonstrate the effect	guide the	Textbook	
individuals, families,	drug/substance abuse.	Internet	of drug/substance that	demonstration.	Internet	Examination
communities and the society at		Lecture note	are commonly abused		Lecture note	
large		Charts	in a drama or video		Charts	Class
		Pictures	clip.		Pictures	presentation
5.2 Effects to the economy, health,		Whiteboard			Whiteboard	by students
etc.		Marker			Marker	

GENERAL OBJECTIVE: 6.0 Understand Rehabilitation procedures for drug addicts in the community.

Sp	ecific Learning Objectives	Teachers Activities	Learning	Specific Learning	Teachers	Learning	Evaluation
(T	heory)		Resources	Objective (Practical)	Activities	Resources	
6.1	Explain the concept of	The teacher should	Projector	The teacher should	Teacher should	Projector	Test
	rehabilitation and its	explain the	Textbook	present pictures	guide the	Textbook	
	objectives.	rehabilitation	Internet	showing some drug	display of the	Internet	Examination
6.2	Explain Rehabilitation	procedure including	Lecture note	addicts in rehabilitation	relevant	Lecture note	
	procedure.	its concept, objectives,	Charts	institutions.	pictures.	Charts	Class
6.3	Identify some rehabilitation	institutions, the	Pictures			Pictures	presentation
	institutions	behaviors exhibited by	Whiteboard			Whiteboard	by students
6.4	Explain the behavior of a drug	drug addicts.	Marker			Marker	
	addict.						

PROGRAMME: NATIONAL DIPLOMA (ND) IN PUBLIC HEALTH TECHNOLOGY

COURSE TITLE: INTRODUCTION TO ENVIRONMENTAL HEALTH

COURSE CODE: EHT 111

DURATION: Lecture: - 30 Hour Tutorial: Nil Practical: - 15hour Total: 45Hours

CREDIT UNITS: 3

GOAL: The course is designed to acquaint students with environmental health problems and solutions within the community.

GENERAL OBJECTIVE: On completion of the course, the student should be able to:

- 1. Identify the various type of environment.
- 2. Identify the component of environmental health.
- 3. Identify environmental health hazards/problems in any community.
- 4. Explain the relationship between air, water and soil pollution and human health.
- 5. Identify type of waste water.
- 6. Describe healthful housing, soil waste and excreta disposal methods in a community.
- 7. Identify and control various of public health importance.

GENERAL OBJECTIVE: 1.0 Identify and describe various type of environment

Specific Learning Objectives	Teachers Activities	Learning	Specific Learning	Teachers	Learning	Evaluation
(Theory)		Resources	Objective (Practical)	Activities	Resources	
Define the term environment	Teacher to	Lecture	Classify with relevant	Teacher to	Lecture	Test
1.2 Classify environment into the	supervise students	notes	examples the	supervise students	notes	
following;	classify		environment.	classify		Examination
i. Physical (Abiotic)	environment into	Textbooks		environment into	Textbooks	
ii. Biological (biotic)	the following;			the following;		Assignments
iii. occupational, social-cultural	i. Physical (Abiotic)	Charts		i. Physical	Charts	
and chemical etc	ii. Biological			(Abiotic)		
1.3 Describe the various component of	(biotic)	Models		ii. Biological	Models	
environment listed in 1.2 above	iii. Occupational,			(biotic)		
1.4 Describe the characteristic of the	social-cultural			iii. Occupational,		
various components of	and chemical etc			social-cultural		
environments in your community				and chemical etc		

GENERAL OBJECTIVE: 2.0 Understand the components of environmental Health in any community

Specific Learning Objectives (Theory)	Teachers Activities	Learning Resources	Specific Learning Objective (Practical)	Teachers Activities	Learning Resources	Evaluation
1 Explain health as a state of dynamic	Teacher to	Lecture		Teacher to	Lecture	Test
equilibrium between an organism and its	explain to	notes	i. Explain health as a	explain to	notes	
environment in which all functions of	students on		state of dynamic	students on		Examination
mind and are normal	indicators used	Textbooks	equilibrium.	indicators	Textbooks	
2.2 Define environmental health	for monitoring of			used in		Assignments

2.3 List the components of environmental	environmental	Charts	ii. Define and list	monitoring of	Charts	
health: air, water and soil pollution,	health media		components of	environmenta		
housing, water supply and sanitation,	(Air, Soil, Water	Models	environmental health.	l health	Models	
solid waste management, water related	etc.			media (Air,		
diseases, vector control, environmental			iii. Explain waste	Soil, Water		
epidemiology and toxicology.	Teacher to state		management methods.	etc.		
2.4 Define solid waste management	equipment used					
environmental epidemiology and	in solid waste		iv. Identify equipment	Teacher to		
environmental toxicology	management to		for environmental	state		
2.5 Explain each of the component listed in	students.		media measurement.	equipment		
2.3 above				used in solid		
i. Provision of safe and adequate water				waste		
ii. Disposal of waste				management		
iii. Safeguarding of food				to students		
iv. Control of insects vectors and other pest						
v. Control of animal reservoir of infection						
vi. Air hygiene and prevention of atmospheric						
pollution						
vii. Elimination of other hazard such noise,						
radiation etc.						
vii. Explain the relationship between good						
health and environment.						

GENERAL OBJECTIVE: 3.0 Understand environmental health hazard in your community

<u> </u>		- j + v= + + ===== v				
Specific Learning Objectives	Teachers	Learning	Specific Learning	Teachers	Learning	Evaluation
(Theory)	Activities	Resources	Objective (Practical)	Activities	Resources	
3.1 Explain the term environmental	Teacher to	-Lecture notes	Explain the meaning of	Teacher to	-Lecture notes	Test
hazard	explain to		hazard, sources, and	explain to		
3.2 classify environmental hazard	students likely	-Textbooks	control using	students likely	-Textbooks	Examination
into; Physical, chemical,	sources of	-Chart	residential and business	sources of	-Chart	
biological and socio-cultural	Hazards in any	-Projectors	premises as instance	Hazards in any	-Projectors	Assignments
(psychosocial)	of the			of the		
3.3 Describe examples of the four	Environmental	-Models		Environmental	-Models	
classes of environmental hazards	media			media		
listed in 3.2 above		-Internet			-Internet	
3.4 Explain how each of the examples						
is related to the health						

3.5 Explain how you may control common environmental hazard in						
your community	1 1 .: 1 : 1		'1 11 2' 11	1 1.1		
GENERAL OBJECTIVE: 4.0 Describe to Specific Learning Objectives	Teachers	Learning	Specific Learning	Teachers	Learning	Evaluation
(Theory)	Activities	Resources	Objective (Practical		Resources	Evaluation
Define the term;	Teacher to	-Lecture not		Teacher to	Lecture notes	Test
i. Air pollution	describe to			describe to		1000
ii. Water pollution	students	-Textbooks		students	Textbooks	Examination
iii. Soil pollution	remedies	10.11000115		remedies		
4.2 List source of air pollution	available to an	y -Chart		available to	Charts	Assignments
4.3 List sources of soil pollution	type of			any type of		1 10018111101110
4.4 List sources of water pollution	pollution	-Projectors		pollution	Models	
4.5 State the relationship between air	identified in			identified in		
pollution, water pollution and soil	column 4.3	-Models		column 4.3	Projectors	
pollution	below			below		
4.6 State how air, water and soil pollution		-Internet			Internet	
affects human health and human	Lectures					
activity						
4.7 State how you can prevent and control	Discussion					
soil pollution and contamination in the						
community						
GENERAL OBJECTIVE: 5.0 Identify ty	pes of waste water	er				
Specific Learning Objectives	Teachers	Learning	Specific Learning	Teachers	Learning	Evaluation
(Theory)	Activities	Resources	Objective (Practical)	Activities	Resources	
Define Portable or Wholesome Water	Teacher to	Lecture notes	i. Define portable water,	Teacher to	Lecture notes	Test
5.2 List Possible Sources of Water in A	explain to		ii. State sources of	explain to		
Community	students on the	Textbooks	water.	students on the	Textbooks	Examination
5.3 Define Waste Water	conventional		iii. Identify waste water	conventional		
5.4 State Types of Waste Water	water and	Charts	characteristic.	water and	Charts	Assignments
5.5 State Sources of Waste Water	waste water	Models		waste water	Models	
5.6 State Harmful Effects of Waste	treatment			treatment		
Water	procedure	Projectors		procedure.	Projectors	
5.7 Explain Waste Water Quality		_				
5.8 State How to Prevent Harmful		Internet			Internet	
Effects of Waste Water						

5.9 Outline the behavior pattern and its									
effect on waste water									
5.10 List simple methods of water									
treatment e.g. boiling, filtration,									
water softening etc.									
5.11 Define water purification and water									
softening									
5.12 List simple method of waste water									
treatment e.g.									
i. Sedimentation									
ii. Disinfection									
iii. Chemical precipitation									
5.13 Describe method listed above									
5.14 State the advantages and									
disadvantages of each methods									
5.15 Carryout purification of water and									
waste water using simple method									
CENERAL ORIECTIVE: 60 Understor	nd hoolthful onvire	CENERAL ORIECTIVE: 6.0 Understand healthful environment							

GENERAL OBJECTIVE: 6.0 Understand healthful environment

Specific Learning Objectives	Teachers Activities	Learning	Specific Learning	Teachers Activities	Learning	Evaluation
(Theory)		Resources	Objective (Practical)		Resources	
6.1 Describe ideal housing in	Teacher to teach	Model	Enumerate and	Teacher to teach	Lecture	Test
relation to sanitary amenities	students the	incinerator,	describe waste	students the	notes	
6.2 Explain the simple methods	requirement for an	other	management methods.	requirement for an		Examination
of solid waste disposal in	ideal housing and	models.		ideal housing and	Textbooks	
community	sanitary amenities			sanitary amenities	Charts	Assignments
i. Open dumping	needed.			needed.	Models	
ii. Composting	Teacher to explain to			Teacher to explain to	Projectors	
iii. Sanitary landfill	the students the			the students the	Internet	
iv. Controlled tipping	advantages and			advantages and		
v. Incineration	disadvantages of the			disadvantages of the		
vi. Recycling etc.	various methods			various methods listed		
-	listed in column 6.2			in column 6.2		

GENERAL OBJECTIVE: 7.0 Understand various public health vectors

Specific Learning Objectives (Theory)	Teachers Activities	Learning Resources	Specific Learning Objective (Practical)	Teachers Activities	Learning Resources	Evaluation
7.1 Identify various public health	Teacher to teach	Lecture notes	•	Teacher to teach	Lecture notes	Test
vectors in community.	students on how	Textbooks		students on how	Textbooks	

7.2 Describe the methods of	to formulate	Charts	to formulate	Charts	Examination
vector control including	organic pesticides	Models	organic pesticides	Models	
rodents control in a	that are used in	Preserved	that are used in	Preserved	Assignments
community biological,	Integrated vector	insect /pest	Integrated vector	insect /pest	
mechanical and integrated	management	Internet	management	Internet	
vector management (IVM)					

PROGRAMME: NATIONAL DIPLOMA (ND) IN PUBLIC HEALTH TECHNOLOGY

COURSE TITLE: INTRODUCTION TO DEMOGRAPHY

COURSE CODE: PHT 126

DURATION: Lecture: - 30 Hour Tutorial: Nil Practical: - Nil Total: 30Hours

CREDIT UNITS: 2

GOAL: The course is intended to equip the students with knowledge and skills on demographic characteristics of population.

GENERAL OBJECTIVE: On completion of the course, the student should be able to:

1. Understand the concept of demography and population control.

GENERAL OBJECTIVE: 1.0 Understand the concept of demography and population control.

Specific Learning Objectives	Teachers	Learning	Specific Learning	Teachers	Learning	Evaluation
(Theory)	Activities	Resources	Objective (Practical)	Activities	Resources	
Define Demographic cycle,	Teacher to teach	Bulletins		Teacher to	Lecture notes	Continuous
Population pyramid, Fertility.	students on how	Charts	i. Provide the definition	teach students		assessment
1.1 Explain factors affecting fertility,	to draw the	Internet/Intranet	of concepts	on how to draw	Textbooks	Practical
Indicators of fertility, Population	population	Journals		the population		Assignment
explosion as a public health	pyramid.	Lecture notes	ii. Outline population	pyramid.	Charts	Examination
problem, Approaches for		Pictorials	control methods.			
population control	Teacher to teach	Projector		Teacher to	Models	
1.2 Family planning	students on	Text book	iii. Draw the population	teach students		
i. Definition	factors that		pyramid	on factors that	Projectors	
ii. Scope	influences			influences		
iii. Health aspect	population			population	Internet	
iv. Method	growth.			growth.		
v. Spacing						
vi. Terminal methods						
1.4 Discuss Delivery System						
1.5 Explain National family welfare						
program						

PROGRAMME: NATIONAL DIPLOMA (ND) IN PUBLIC HEALTH TECHNOLOGY COURSE TITLE: INTRODUCTION TO MENTAL HEALTH COURSE CODE: CHO136 DURATION: Lecture: - 30 Hour Tutorial: Nil Practical: - Nil Total: 30Hours

CREDIT UNITS: 2

GOAL: This course is designed to provide students with the basic knowledge of the concepts of mental health an illness

GENERAL OBJECTIVE: On completion of the course, the student should be able to:

- 1.0 Understand the concepts associated with mental health and mental illness.
- 2.0 Know the factors that cause mental disorders.
- 3.0 Know the common mental health disorder and emergencies.
- 4.0 Understand the management of some mental health disorders.
- 5.0 Understand community mental health and referral services
- 6.0 Know the various methods of rehabilitation and management of the mentally ill within the community.

GENERAL OBJECTIVE: 1.0 Understand the concepts associated with mental health & mental illness.

Specific Learning Objectives (Theory)	Teachers Activities	Learning Resources	Specific Learning Objective (Practical)	Teachers Activities	Learning Resources	Evaluation
 Define mental health and mental illness Outline the historical development of psychiatric medicine and psychiatric nursing in Nigeria and the world. Describe the changing concepts of mental health care in Nigeria. Explain the emotional health needs of individuals, families and communities. Explain the concept of personality development. 	 Lecture Discussion Group work Multimedia presentations 	Bulletins Charts Internet/Intranet Journals Lecture notes Pictorials Projector Text book	Provide the definition, history, emotional	Task the students on group work	Bulletins Charts Internet/Intranet Journals Lecture notes Pictorials Projector Text book	Continuous assessment Practical Assignment Examination

GENERAL OBJECTIVE: 2.0 Understand the concepts associated with mental health & mental illness.

Specific Learning Objectives	Teachers	Learning	Specific Learning	Teachers	Learning	Evaluation
(Theory)	Activities	Resources	Objective	Activities	Resources	
			(Practical)			
2.1 Explain the theories of the etiology of	• Lecture	Bulletins	i. Describe the	Engage	Posters	Continuous
mental illness:	 Discussion 	Charts	theories of aetiology	student in	audio- visuals	assessment
- Freudian Theory	Multimedia	Internet/Intranet	of mental health.	group		Practical
- Biochemical Theory etc	presentations	Journals	ii. List the causes of	presentation		Assignment
	•	Lecture notes	mental health.			Examination

2.2 List the various causes of mental illness	Pictorials		
under the following headings:	Projector		
- Physical causes	Text book		
- Psychological causes etc			
- Environmental causes			
- Psycho/social causes, etc			
CENEDAL OD IECTIVE, 2 0 Vnovy the comm	on mantal haalth disandans fr amanaanaisa	in the community	

GENERAL OBJECTIVE: 3.0 Know the common mental health disorders & emergencies in the community

Specific Learning Objectives	Teachers	Learning	Specific Learning	Teachers	Learning	Evaluation
(Theory)	Activities	Resources	Objective	Activities	Resources	
			(Practical)			
3.1 pattern of behaviour disorders 3.2 Explain the adaptive process in symptom formation 3.3 Classify mental disorders according to causes. 3.4 Define neurotic and psychotic disorders. 3.5 Describe the signs & symptom of neurotic disorders i.e Anxiety - Phobia - Obsessive compulsive neurosis - Hypochondriasis - Neurasthenics etc. 3.6 Describe the signs & symptoms of psychotic disorders: - Schizophrenias - Depression - Mania - Manic / depressive psychotic disorders etc Organic disorders - Personality disorders - Psychosomatic disorders - Psychosomatic disorders etcle	 Lecture Discuss Group work Assignment 	Bulletins Charts Internet/Intranet Journals Lecture notes Pictorials Projector Text book		Visit within students to mental homes / hospitals.	Bulletins Charts Internet/Intranet Journals Lecture notes Pictorials Projector Text book	Continuous assessment Practical Assignment Examination

3.7 Describe the management of					
patients with neurotic and psychotic					
disorders using the nursing process.					
CENTED AT OD TE CENTIE AND 1	.1	C . 1.1	1.1 11 1		

GENERAL OBJECTIVE: 4 Understand the management of some mental health disorders

Specific Learning Objectives (Theory)	Teachers Activities	Learning Resources	Specific Learning Objective (Practical)	Teachers Activities	Learning Resources	Evaluation
 4.1State the Mental Health Laws and Acts related to treatment of patients. 4.2 Outline the types of admissions in mental hospitals 4.3 Describe the assessment of mental health status of individuals and families. 4.4 Explain psychiatric emergencies and their management 4.5 Describe somatic therapy, activity therapy and Psychotherapy 4.6 Explain the management of some mental disorders: depression, anxiety, schizophrenia, substance abuse etc. 	LectureDiscussionGroup work	Bulletins Charts Internet/Intranet Journals Lecture notes Pictorials Projector Text book	 4.6 Manage acute Mental Disorder 4.6 Organize health education and counseling of patients. 4.10 visit the hospital to observe how Electro Convulsive Therapy (E.C.T) and other therapies are administered 	management of acute and chronic mental disorder. • Guide students to	 Charts Video clips Multimedia projector Audio Visuals ECT machine 	Continuous assessment Practical Assignment Examination

GENERAL OBJECTIVE: 5.0 Understand community mental health and referral services

Specific Learning Objectives	Teachers	Learning	Specific Learning	Teachers	Learning	Evaluation
(Theory)	Activities	Resources	Objective (Practical)	Activities	Resources	
5.1 Identify the factors that	• Lecture	Bulletins	5.1 Organize and maintain	 Discussion 	• Charts	Continuous
contribute to the causes or	 Discussion 	Charts	therapeutic environment	• Field trip to	 Video clips 	assessment
aggravation of mental illness	Brain storming	Internet/Intranet	5.1 Educate the community	traditional	Multimedia	Practical
within the family &		Journals	on promotion of good	mental health	projector	Assignment
environment.		Lecture notes	mental health	facilities	• Referral	Examination
5.2 Outline the traditional and		Pictorials	5.2 Conduct visit to a		forms	
other methods of treatment		Projector	traditional mental			
and management of mentally		Text book	health home/ facilities			
ill persons in the community.			to understudy the			
5.3 Explain follow- up care			traditional management			
and/home visits.			of mental illness.			
5.4 Discuss the referral services			5.4 Organize a two-way			
in mental health care.			referral system			

GENERAL OBJECTIVE: 6.0 Know the	GENERAL OBJECTIVE: 6.0 Know the various methods of rehabilitation of the mentally ill within the community.									
Specific Learning Objectives (Theory)	Teachers Activities	Learning Resources	Specific Learning Objective (Practical)	Teachers Activities	Learning Resources	Evaluation				
rehabilitation of the mentally ill persons. 6.2 Explain the methods of rehabilitation of the mentally ill	 Lecture Discussion Group discussion Multimedia presentations Visits to rehabilitation centres 	Bulletins Charts Internet/Intranet Journals Lecture notes Pictorials Projector Text book	Role play on rehabilitation processes.	Organise a visit to a rehabilitation home.	 Textbooks Journals White board Markers Multimedia projector Laptops 	Continuous assessment Practical Assignment Examination				

PROGRAMME: NATIONAL DIPLOMA (ND) IN PUBLIC HEALTH TECHNOLOGY								
COURSE TITLE: INTRODUCTION TO EPIDEMIOLOGY								
COURSE CODE: El	HT 212							
DURATION :	Lecture: - 30	Tutorial: Nil	Practical: - Nil	Total: 30HRS				
CREDIT UNITS: 2								
GOAL: The goal of the	he course is to provide students	with the general understand	ing of epidemiology in public h	ealth practice				
GENERAL OBJECTIVE: On completion of the course, the student should be able to:								
1. Understand the co	oncept of epidemiology in public	c health practice						

1.	Understand the	concept of ep	oidemiology i	n public health	practice
----	----------------	---------------	---------------	-----------------	----------

Specific Learning Objectives	Teachers Activities	Learning	Specific Learning	Teachers	Learning	Evaluation
_	Teachers Activities	U	•		O	Evaluation
(Theory)		Resources	Objective (Practical)	Activities	Resources	
1.1 Definition of terms &the aim of	The teacher should	Bulletins	Students should define	Teacher	Bulletins	Continuous
epidemiology	define some basic	Charts	some basic terms used	should	Charts	assessment
1.2 Explain Epidemiological approach	terms used in the study	Internet/Intranet	in the study of	provide	Internet/Intranet	Practical
1.3 Discuss Basic measurement in	of epidemiology.	Journals	epidemiology.	support	Journals	Assignment
Epidemiology.		Lecture notes	Teacher should also	and guide	Lecture notes	Examination
1.4 list and explain types of	Teacher should also	Pictorials	explain	to the	Pictorials	
Epidemiological studies	explain	Projector	epidemiological	students.	Projector	
1.4.1 Observational	epidemiological	Text book	approach and some		Text book	
a. Descriptive	approach and some		basic measurements in			

b. Analytic	basic measurements in	epidemiology,		
1.4.2 Experimental	epidemiology,	epidemiological		
1.5 Expatiate on Association &	epidemiological	studies and uses of		
causation.	studies and uses of	epidemiology should		
1.6 State the Uses of Epidemiology.	epidemiology should	be explained.		
1.7 Describe Infectious disease	be explained.			
Epidemiology.				
1.8 Explain the process of				
Investigation of an epidemic of				
Cholera/GE, TB, Onchocerciasis,				
HIV/AIDS				
1.9 Prepare Health advice to travelers				
1.10 Disinfection				
1.11 Control of Hospital acquired				
infections				
1.12 Screening for diseases				

PROGRAMME:	NATIONAL DIPLOMA (ND)	N PUBLIC H	EALTH TECHNOLOG	Y						
COURSE TITLE:	COURSE TITLE: INTRODUCTION TO ENTREPRENEURSHIP EDUCATION									
COURSE CODE:	COURSE CODE: EED 126									
DURATION :	Lecture: - 15	Tutorial:	Practical: -	15	Total: 30 HRS					
CREDIT UNITS:	2									
GOAL: This cours	e is designed to enable students t	o develop an er	ntrepreneurial mindset and	l awareness.						
GENERAL OBJE	CTIVE: On completion of the co	ourse, the stude	ent should be able to:							
1 Understand the	meaning and scope of Enterprise	and Entrepren	eurship							
	history and Government Policy			in Nigeria						
3 Understand the	types, characteristics and rational	le of Entrepren	neurship							
4 Understand the	role of Entrepreneurship in econ	omic developm	nent							
5 Understand En	trepreneurial characteristics and a	ttitude								
6 Understand the	key competencies and determini	ng factors for s	uccess in Entrepreneurshi	p						
7 Know the moti	vational pattern of Entrepreneurs		_	_						
GENERAL OBJE	GENERAL OBJECTIVE: 1.0 Understand the meaning and scope of Enterprise and Entrepreneurship									
Specific Learning	Teachers Activities	Learning	Specific Learning	Teachers Activities	Learning	Evaluation				
Objectives (Theory) Resources Objective (Practical) Resources										

1.1 Define an Enterprise	i. Explain the terms:	Text Books	1.5 Identify	features of	Guide stud	ents to	Successf	ful	Continuous
in its narrower and	Enterprise,		the types		research in	to	Entrepre	eneur to	assessment
wider contexts.	Entrepreneur		enterpris	es	different fo	orms of	speak on	the role	Practical
1.2 Explain different	Entrepreneurship		identified	1.	enterprises	•	and impo	ortance of	Assignment
forms of Enterprises	ii. List the different		1.6 Identify	the facilities	Guide stud	ents to	Entrepre	neurship.	Examination
1.3 Classify the different	types of enterprises		and oppo	rtunities	research ar	d identify			
forms of Enterprises	and group them into		available	for self-	criteria for	successful	Use of in	nternet	
into small, medium	small, medium and		employn	nent.	entreprene	urship.	and relev	vant video	
and large enterprises	large enterprise		1.7 Identify	successful	Establish c	ompetitive	clips.		
1.4 Explain the terms:	iii. Compare and		entreprer	neurs in	groups.				
Entrepreneur,	contrast wage		Nigeria.		Students to	make			
Entrepreneurship,	employment and		1.8 Evaluate		formal pres				
Wage Employment,	self-employment.			neurship in	of their fin	_			
and self-	iv. Explain clearly the		wealth ci	eation.		undertake			
employment, explain	business terrain in				enquiry lea	•			
clearly the business	Nigeria.				selected en	trepreneur			
terrain in Nigeria.					and enterp				
GENERAL OBJECTIVE	E: 2.0 Understand the	history and Go	overnment Po	olicy measure	s at promoti	ng Entreprer	neurship ii	n Nigeria	
Specific Learning	Teachers Activities	L	earning	Specific Lea	arning	Teachers		Learning	Evaluatio

Creating Learning	Tooch and A stimiting			<u> </u>		Evalvatia
Specific Learning	Teachers Activities	Learning	Specific Learning	Teachers	Learning	Evaluatio
Objectives (Theory)		Resources	Objective (Practical)	Activities	Resources	n
2.1 Trace the evolution	i. Explain the historical	Text Books	Obtain the required	Guide students to	Internet.	Continuous
of entrepreneurship	development and role of	Journals	information from the	search the web for		assessment
development.	entrepreneurship in the	Publications	net.	historical evolution		Practical
2.2 Compare	development of enterprises in	Video Film		of entrepreneurship		Assignment
Entrepreneurship in	Nigeria.	TV & VCR		in other parts of the		Examinatio
Nigeria with Japan,	ii. Compare Entrepreneurship in			world.		n
India, China,	Nigeria with other countries of			Research and list		
Malaysia, South	the world. Japan, India, China,			various		
Korea, etc	Malaysia, South Korea.			Government		
2.3 Explain Nigeria's	iii. Show students video film on			Measures on		
values in relation to	Entrepreneurship development			SME's and		
Entrepreneurship.	in any of the countries			Industrial		
2.4 Describe the role of	mentioned above.			Development from		
Entrepreneurship In	iv. Explain Nigeria's values and			1960 to date.		
the development of	Entrepreneurship.					
enterprises.						
CENEDAL ODIECTIVI	E. 20 Undanatan dalah saranga alam	41 -4	-4'1CE-4	1. 1		

GENERAL OBJECTIVE: 3.0 Understand the types, characteristics and rationale of Entrepreneurship

Specific Learning Objectives (Theory)	Teachers Activities		Learning Resources	Specific Learnin Objective (Pract	_	•	·
3.1 Explain types of Entrepreneurs and their characteristics. 3.2 Compare and contrast Technological and Social Entrepreneurship. 3.3 Identify the different types of Entrepreneurs: self-employed, opportunistic, Inventors, Pattern multipliers etc. 3.4 Identify the role of Entrepreneurship in business, society and in self-employment.	 i. Explain types of Entrepii. Explain types of Entrepreneurship. iii. Explain features of Entrepreneurship in busiv. Explain the rewards and Entrepreneurship in busiv. Describe the different type Entrepreneurs vi. Describe the role of entrepreneurship in busis society employment geand wealth creation. vii. Explain the benefits of employment 	siness. d efforts siness. ypes of siness, neration	Text Books. K.A.B. Journals Publications Video Film TV & VCR	3.5 Analyze life situations per may find themselves in 3.6 Enumerate the benefits to be derived from above situation	Guide stuto identification opportunities from the environment opportunities opportunit	ities Internet. Textbook Journals	Continuous assessment Practical Assignment Examination
GENERAL OBJECTIVE:	employment.4.0 Understand the role	of Entreprene	eurshin in ecor	omic develonment	_		
Specific Learning Objective		Learning		•	eachers	Learning	Evaluation
(Theory)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Recources	-	0	ctivities	Resources	

Specific Learning Objectives	Teachers Activities	Learning	Specific Learning	Teachers	Learning	Evaluation
(Theory)		Resources	Objective (Practical)	Activities	Resources	
4.1 Identify resources and	I. Explain resources	Text Books.	4.5 Classify the	Show	Computer or	Continuous
constraints of	and constraints of	Journals	resources into	transparency of	Overhead	assessment
Entrepreneurship.	Entrepreneur.	Publications	economic, human,	resources needed	Projector SME's	Practical
4.2 Explain how	II. Relate import	Video Film	knowledge and	by an		Assignment
Entrepreneurship leads to	substitution to	TV & VCR	time.	entrepreneur.		Examination
import substitution and	utilization of local			Guide students to		
utilization of local	resources.		4.6 Distinguish	visit selected		
resources.	III. Explain equitable		between economic	enterprise/comm		
4.3 Explain how	distribution of		development and	unity projects.		
Entrepreneurship leads to	industries and the		growth.	Guide students		
socio-economic	role of			on the use of		
development.	entrepreneurship.			local raw		
4.4 Explain the role of an	IV. Explain how			materials for		
entrepreneur in	entrepreneurship			value addition.		
grassroot/local economic	leads to job					
development.	creation.					

Specific Learning Objectives (Theory)	Teachers Activities	Learning Resources	Specific Learning Objective	Teachers Activities	Learning Resources	Evaluation
5.1 Explain the philosophy, values, scope, need and characteristic of Entrepreneurship.5.2 Explain the profiles of local Entrepreneurs.	vi. Describe how to mobilize resources for establishing an enterprise.	Textbooks Journals Computer Projector	5.9 Evaluate the opportunities identifying corresponding self-employment opportunities. 5.10 Evaluate a project considering its resources: management of time, personnel, equipment and money. 5.11 Explain constraints and problem solving techniques.	Guide students to identify as many job/employment opportunities as possible. Guide students to visit a successful enterprise, and evaluate its resources to identify its contribution to economy, its internal and external constraints and available problem solving techniques. Group students to survey and interview Entrepreneurs. Evaluate a sample project with the students, then give them assignment to assess one.	Computer Projector Guest Speakers (Female/Male) Internet search.	Continuous assessment Practical Assignment Examination

6.0 Understand the key competencies and determining factors for success in Entrepreneurship

GENERAL OBJECTIVE:

Specific Learning Objectives	Teachers	Learning	Specific Learning	Teachers	Learning	Evaluation
(Theory)	Activities	Resources	Objective	Activities	Resources	
6.1 Identify the key competencies	i. Explain major	Text Books	s. 6.7 Describe: Data	Guide students to	Computer and	Continuous
required in setting up a	competencies		collection about	demonstrate	accessories,	assessment
successful small business;	required for	Journals	self, who am I	knowledge of	internet and	Practical
knowledge, skill and Traits.	successful		(personal efficacy). themselves, goals,	visitations.	Assignment
6.2 Identify key success factors in	Entrepreneurshi	ip	Rating of concept	, Entrepreneurship	Blocks	Examination
setting a small business:		Publication	s self-knowledge.	strengths and	Rings	
Resources, Ability, Motivation	ii. Explain key		6.8 Play a relevant	weaknesses.	Papers	
and Determination, Idea and	success factors	Video Film	business game and	d		
Market etc.	in setting up		observe the	Give practical		
6.3 Define individual life goal and	small business.	TV & VCF	behavioral pattern	assignment to		
link it to Entrepreneurship.			in relation to	students on		
6.4 Identify the strengths and	iii. Explain		moderate risk	personal efficacy,		
weaknesses in 6.3 above.	individual life		taking, goal settin	g goal and link to		
6.5 Explain business games.	goal of an		etc.	Entrepreneurship		
6.6 Explain the behavioral pattern	Entrepreneur		6.9 Identify core skill	s, strength and		
observed in 6.5 above on:			competencies, and	d weaknesses.		
Moderate risk taking, goal	iv. Explain relevan	t	success factors	Demonstrate how		
setting, Learning from	business games		required for	to play business		
feedback. Taking personal	and their		entrepreneurship.	game.		
responsibility. Confidence and	behavioral			Visit a small		
self-reliance. patterns.				business enterprise.		
GENERAL OBJECTIVE: 7.0	Know the motivation	nal pattern of E	ntrepreneurs.			
Specific Learning Objectives	Teachers	Learning	Specific Learning	Teachers Activities	Learning	Evaluation
(Theory)	Activities	Resources	Objective (Practical)		Resources	

7.1 Define motivation.	i. Explain	Text Books	7.7 Analyze motive	Illustrate how to	Computer	Continuous
7.2 List the objectives of	motivation,	Journals	strength from TAT	carryout analysis on	And	assessment
motivation.	objectives, merit	Publications	score using a given	motive strength from	Internet	Practical
7.3 Identify barriers to	and demerit.		case.	TAT scores using	facilities	Assignment
motivation and achievement.	ii. Explain TAT			related case studies.		Examination
7.4 Explain Thematic	scores.					
Appreciation Test (TAT)	iii Explain how to					
scores.	carryout analysis					
7.5 Explain how to analyze	on motive					
motive strength from TAT	strength from					
score	TAT scores.					
1 1	iv. Explain spirit of					
Achievement Motivation	AMT.					
Test (AMT)						

PROGRAMME: NATIONAL DIPLOMA (ND) IN PUBLC HEALTH TECHNOLOGY

COURSE TITLE: Introduction to Community Health

COURSE CODE: PHT 201

DURATION: Lecture: - 30Hrs Tutorial: Nil Practical: - Nil Total: 30Hrs

CREDIT UNITS: 2

GOAL: The goal of this course is to prepare the students to be able to understand community health and community development.

GENERAL OBJECTIVE: On completion of the course, the student should be able to:

- 1.0 Understand some terms in relation to Community Health.
- 2.0 Define Community.
- 3.0 Understand the concept of community organization and development.
- 4.0 Understand the concept of community diagnosis and mobilization.

GENERAL OBJECTIVE: 1.0 Understand some terms in relation to Community Health

GENERAL OBJECTIVE: 1.0 Understand some terms in relation to Community Treatm							
Specific Learning Objectives	Teachers Activities	Learning	Specific Learning	Teachers	Learning	Evaluation	
(Theory)		Resources	Objective (Practical)	Activities	Resources		
1.1 Define of Community Health	The teacher should	Bulletins	Demonstrate	Teachers to	Bulletins	Continuous	
1.2 Describe community	define Community,	Charts	community	guide the	Charts	assessment	
organization development	Community Health,	Internet/Intranet	mobilization	conduct of	Internet/Intranet	Practical	
1.3 Define community diagnosis	Organization,	Journals	intervention to	mobilizing the	Journals	Assignment	
mobilization	Development,	Lecture notes	community.	community.	Lecture notes	Examination	
1.4 Describe the steps involved in	Diagnosis and	Pictorials			Pictorials		
community organization and	Mobilization.	Projector			Projector		
development		Text book			Text book		

GENERAL OBJECTIVE: 2.0 Define Community.

Specific Learning Objectives	Teachers Activit			Specific Learning		Teachers	Learning	Evaluation
(Theory)		Resources		Objective (Praction	al)	Activities	Resources	
2.1 Define community	Teacher should	Bulletins		Students should		Teacher should	Bulletins	Continuous
2.2 List the types of community	define communi			differentiate between		guide the	Charts	assessment
2.3 Explain the characteristics of	its types and	Internet/Int	anet	communities base	d	students in	Internet/Intranet	Practical
community	characteristics.	Journals		on their nature.		differentiating	Journals	Assignment
		Lecture not	es			communities.	Lecture notes	Examination
		Pictorials					Pictorials	
		Projector					Projector	
		Text book					Text book	
GENERAL OBJECTIVE: 3.0	Understand the	concept of commu	nity or	rganization and dev	elopi	ment.		
Specific Learning Objectives	Teachers	Learning	Spec	cific Learning	Tea	achers	Learning	Evaluation
(Theory)	Activities	Resources	Obj	ective (Practical)	Act	tivities	Resources	
3.1 Concept and component of	Teacher should	Bulletins	Teac	cher organize and	Tea	cher to guide	Bulletins	Continuous
community organization and	explain community	Charts	carry	yout community	the	conduct of	Charts	assessment
development	organization and	Internet/Intranet	orga	nization and the		activity.	Internet/Intranet	Practical
3.2 Definition of organization and	development.	Journals de		evelopment			Journals	Assignment
development		Lecture notes	inter	ntervention			Lecture notes	Examination
3.3 Steps involved in community		Pictorials	simu	mulation			Pictorials	
organization and development		Projector					Projector	
		Text book					Text book	
GENERAL OBJECTIVE: 4.0		concept of commu		agnosis and mobili				
Specific Learning Objectives	Teachers	Learning		ecific Learning		eachers	Learning	Evaluation
(Theory)	Activities	Resources	Ob	jective (Practical)	A	ctivities	Resources	
Discuss the following:	Teacher should	Bulletins	Stu	dent/Teacher	Te	acher to guide	Bulletins	Continuous
4.1 Concept of mobilization	explain the	Charts	sho	ould carryout	the	e process	Charts	assessment
4.2 Steps involved in community	concept of	Internet/Intranet	con	nmunity			Internet/Intranet	Practical
mobilization	community	Journals	org	anization and			Journals	Assignment
4.3 Importance of community	mobilization and	Lecture notes	dev	elopment in			Lecture notes	Examination
mobilization	the steps to carry	Pictorials	sele	ected areas.			Pictorials	
4.4 Relationship between	it out.	Projector					Projector	
community mobilization and		Text book					Text book	
community participation								
4.5 Importance of community								
participation in community								
mobilization								

PROGRAMME: NATIONAL DIPLOMA (ND) IN PUBLIC HEALTH TECHNOLOGY
COURSE TITLE: Introduction to Communicable and Non-Communicable Diseases

COURSE CODE: PHT 211

DURATION: Lecture: - 40Hrs Tutorial: 5Hrs Practical: - Nil Total: 45Hrs

CREDIT UNITS: 3

GOAL: The course is designed to prepare the student with knowledge and skills on the epidemiology of communicable diseases and non-communicable diseases.

GENERAL OBJECTIVE: On completion of the course, the student should be able to:

- 1.0 Understand the Concept and epidemiology of Communicable Diseases

2.0 Understand the Concept and epidemiology of Non-Communicable Diseases										
GENERAL OBJECTIV	GENERAL OBJECTIVE: 1.0 Concept and epidemiology of communicable diseases									
Specific Learning	Teachers Activities	Learning	Specific Learning	Teachers	Learning	Evaluation				
Objectives (Theory)		Resources	Objective (Practical)	Activities	Resources					
1.1 Define	The Teacher shall define	Bulletins	The Student should be	Teacher should	Bulletins	Continuous				
Communicable	communicable diseases	Charts	exposed to some facilities	guide the activity.	Charts	assessment				
Diseases,	and the NCD, including	Internet/Intranet	where they can		Internet/Intranet	Practical				
Infection, etc.	some examples in each	Journals	differentiate cases of		Journals	Assignment				
Explain the following:	case.	Lecture notes	Communicable diseases		Lecture notes	Examination				
1.2 Air borne infection		Pictorials	and NCD.		Pictorials					
1.3 Contact infection	The chain of infection	Projector			Projector					
1.4 Water borne and	should also be explained	Text book			Text book					
food borne	to the students.									
diseases										
1.4.1 Vector borne										
diseases										
a. Zoonotic diseases										
b. Surface infection										
1.4.2 Emerging and re-										
emerging										
infectious diseases										
1.5 Hospital Acquired										
Infections										
1.6 Programs for the										
control of										
communicable										
diseases										

1.7 Infectious disease process (Chain of infection) 1.8 Surveillance of communicable diseases 1.9 Process of investigating outbreaks GENERAL OBJECTIV	E: 2.0 Concept and epidem	iology of non-comm	nunicable diseases			
Specific Learning	Teachers Activities	Learning	Specific Learning	Teachers	Learning	Evaluation
Objectives (Theory)		Resources	Objective (Practical)	Activities	Resources	
 2.1 Define non-communicable diseases 2.2 Explain classification of NCD 2.3 Predisposing factors to NCD 2.4 Prevention and control of NCD 2.5 Cardiovascular diseases 2.6 Cancer 2.7 Diabetes mellitus 2.8 Disaster 2.9 Blindness 2.10 Accidents 2.11 Obesity 	The Teacher should define some terms in relation to Communicable and Non-Communicable Diseases and some common examples of diseases in each category.	Bulletins Charts Internet/Intranet Journals Lecture notes Pictorials Projector Text book	Students should be able to detect some Non-Communicable Diseases and their predisposing factors.	Teachers should guide the process of detection of the NCD and the predisposing factors.	BP Apparatus Thermometer Centrifuging Machine Bulletins Charts Internet/Intranet Journals Lecture notes Pictorials Projector Text book	Continuous assessment Practical Assignment Examination

PROGRAMME: NATIONAL DIPLOMA (ND) IN PUBLIC HEALTH TECHNOLOGY							
COURSE TITLE: Primary Health Care							
COURSE CODE: P	PHT 212						
DURATION :	DURATION: Lecture: -30Hrs Tutorial: Nil Practical: - 15Hrs Total: 45Hrs						
CREDIT UNITS: 3							

GOAL: This course is designed to enable students

GENERAL OBJECTIVE: On completion of the course, the student should be able to:

- 1.0 Know the historical background, principles, concepts and components of PHC in Nigeria.
- 2.0 Know the structure and health needs of the Community.
- 3.0 Know the roles of various cadre of health workers in PHC facilities.
- 4.0 Know the process and resources required for effective community mobilization & participation in health care activities.
- 5.0 Understand the concept of community diagnosis and situation analysis
- 6.0 Understand the concept and techniques of Health Education.
- 7.0 Know the basic clinical skills required in PHC

	inical skins required in r					
GENERAL OBJECTIV		historical backgrou	nd, principles, concepts an		Nigeria.	1
Specific Learning	Teachers Activities	Learning	Specific Learning	Teachers Activities	Learning	Evaluation
Objectives (Theory)		Resources	Objective (Practical)		Resources	
1.1 Define Primary	Lecture	Bulletins	Draw an organogram	Supervise drawing of	Bulletins	Continuous
Health Care (PHC).	Discussion	Charts	of the PHC set- up	PHC organogram	Charts	assessment
1.2 Discuss the	Use an organogram to	Internet/Intranet	in Nigeria.		Internet/Intranet	Practical
historical	explain PHC set up in	Journals			Journals	Assignment
development,	Nigeria.	Lecture notes			Lecture notes	Examination
concepts and		Pictorials			Pictorials	
principles of PHC.		Projector			Projector	
1.3 List the components		Text book			Text book	
of PHC.						
1.4 Describe the						
structure of health						
care system in						
Nigeria.						
1.5 Explain an						
organogram of the						
PHC set up in						
Nigeria.						
1.6 Describe the						
operational level of						
PHC at the Local						
Government Areas						
in Nigeria.						
1.7 Explain the roles,						
functions and						

responsibilities of the nurse in PHC 1.8 Describe the multidisciplinary, intersectoral and team approach to PHC GENERAL OBJECTIV	E: 2.0Know the structure	and health needs o	of the Community			
Specific Learning	Teachers Activities	Learning	Specific Learning	Teachers Activities	Learning	Evaluation
Objectives (Theory)		Resources	Objective (Practical)		Resources	
2.1 Define Community: -Family pattern -Health pattern 2.2 Describe a typical community with emphasis on the leadership and decision- making structure 2.3 State functions of a community. 2.4 Identify the health needs of the community through survey.	Lecture Discussion Role play	Bulletins Charts Internet/Intranet Journals Lecture notes Pictorials Projector Text book	Identify different family patterns in the community. Carry out health survey and identify the health needs of the community.	Supervise identification of different family patterns in the community. Supervise identification of health and disease patterns in the community. Take a trip with students to survey a community. Discuss the process of how to identify the health needs of the community.	Bulletins Charts Internet/Intranet Journals Lecture notes Pictorials Projector Text book	Continuous assessment Practical Assignment Examination
Specific Learning	Teachers Activities	Learning	Specific Learning	Teachers Activities	Learning	Evaluation
Objectives (Theory)		Resources	Objective (Practical)		Resources	
3.1 List the various categories of health workers within the PHC system in Nigeria e.g. Community	LectureDiscussion	Bulletins Charts Internet/Intranet Journals Lecture notes Pictorials	Students should write and present the categories of PHC Workers in Nigeria.	Teacher to guide the process of coming up with the relevant PHC workers.	Bulletins Charts Internet/Intranet Journals Lecture notes Pictorials	Continuous assessment Practical Assignment Examination

Physicians, Midwives. Public Health Nurses, Community Health Officers, etc. 3.2 Describe the role of each category of health worker listed in 3.1. 3.2 Explain the collaborative roles of the P.H.C team. 3.4 State the roles of a nurse practitioner in a PHC setting		Projector Text book			Projector Text book	
			uired for effective commun		•	
Specific Learning	Teachers Activities	Learning	Specific Learning	Teachers Activities	Learning	Evaluation
Objectives (Theory)		Resources	Objective (Practical)		Resources	
 4.1 Define Community Mobilization, Participation, Advocacy and Group dynamics. 4.2 Explain the concept of community mobilization and participation. 4.3 Explain the rationale for community mobilization and participation in Primary Health Care. 4.4 Explain advocacy process in 	Lecture Discussion	Bulletins Charts Internet/Intranet Journals Lecture notes Pictorials Projector Text book	Identify the different community committees involved in community mobilization and participation.	Identify the different committees involved in community mobilization and participation. Supervise report on visit to community	Bulletins Charts Internet/Intranet Journals Lecture notes Pictorials Projector Text book	Continuous assessment Practical Assignment Examination

community mobilization & participation. 4.5 Describe the steps involved in community mobilization. 4.6 State the various committees involved in community mobilization and participation. 4.7 Explain the						
composition and functions of the various committees involved in community mobilization and						
participation. 4.8 Describe the use of group dynamics in Primary Health Care.						
GENERAL OBJECTIV			mmunity diagnosis and situ		Τ	
Specific Learning Objectives (Theory)	Teachers Activities	Learning Resources	Specific Learning Objective (Practical)	Teachers Activities	Learning Resources	Evaluation
 Explain the terms: Community diagnosis, Situation analysis, Community mobilization. Explain the role of community 	The Teacher should explain the concept of Community Diagnosis and Mobilization, Situation Analysis in PHC.	Bulletins Charts Internet/Intranet Journals Lecture notes Pictorials Projector	Student should mobilize and diagnose a community for health action. They should also analyze a community	Teacher should guide the process for the students.	Bulletins Charts Internet/Intranet Journals Lecture notes Pictorials Projector	Continuous assessment Practical Assignment Examination
diagnosis and		Text book	anaryze a community		Text book	

situation analysis in PHC. 3. List the methods and steps used in community diagnosis and mobilization. 4. Describe the instruments and steps used in situation analysis.			to find out its specific needs.			
GENERAL OBJECTIV		d the concept and to	echniques of Health Educa	•		
Specific Learning Objectives (Theory)	Teachers Activities	Learning Resources	Specific Learning Objective (Practical)	Teachers Activities	Learning Resources	Evaluation
 6.1 Define: Health Education Behaviour Change Communication (BCC) Behaviour modification 6.2 Describe communication skills and group dynamics in Primary Health Care. 6.3 Explain the principles and methods of Behaviour Change Communication' (BCC) and Health Education. 6.4 Explain the application of Principle of 	 Lecture Discussion Demonstration Role-play 	Bulletins Charts Internet/Intranet Journals Lecture notes Pictorials Projector Text book	Apply communication skills in PHC setting Carry out health talks or Health Education Prepare and use audiovisual aids for the activities	Demonstration Teacher supervises health education activity by students	Bulletins Charts Internet/Intranet Journals Lecture notes Pictorials Projector Text book	Continuous assessment Practical Assignment Examination

teaching and learning to BCC. 6.5 Explain the importance of Guidance and Counseling in Primary Health Care.	E 7.0: Know the basic cli	inical skills required	in DHC			
Specific Learning Objectives (Theory)	Teacher's Activities	Resources	Specific Learning Objectives (Practical)	Teacher's Activities	Resources	Evaluation
7.1 Define History taking, reporting, recording. 7.2 Describe the steps involved in history taking, reporting and recording. 7.3 Describe physical assessment of a client or patient. 7.4 Define Standing Order. 7.5 Describe how to use standing orders. 7.6 Describe diagnostic techniques and skills required in client care.	Lecture Discussion	Bulletins Charts Internet/Intranet Journals Lecture notes Pictorials Projector Text book	Conduct complete physical examination on a client/patient. Assess the socioeconomic and nutritional status of patient/client to identify high risk clients through: weighing & charting of weight data. Use of mid -upper - arm circumference strip (shirker strip) Recording findings and maintain clients health records Utilize standing orders for the diagnosis and treatment of diseases in PHC. 7.5 Utilize proper diagnostic techniques and skills in client care (contact tracing and surveillance)	Demonstration Return demonstration Student's supervision	Bulletins Charts Internet/Intranet Journals Lecture notes Pictorials Projector Text book	Continuous assessment Practical Assignment Examination

PROGRAMME: NATIONAL DIPLOMA (ND) IN PUBLIC HEALTH TECHNOLOGY							
COURSE TITLE: Research Methodology							
COURSE CODE: GNS 218							
DURATION:	Lecture: - 30Hrs	Tutorial: Nil	Practical: - Nil		Total: 30Hrs		
CREDIT UNITS: 2							
	ed to equip students with	knowledge of re	search skills, to be inquisitive,	innovative and discreti	onal and to pres	ent research	
outcome in a logical order.							
GENERAL OBJECTIVE: (On completion of the cour	se, the student s	hould be able to:				
1.0 Explain the meaning	of research						
2.0 Explain the feature of							
3.0 Describe the approach							
	nd planning of research						
5.0 Explain the sampling							
6.0 Explain the use of sta							
	and presentation of resear	rch result					
8.0 Explain Layout of res							
GENERAL OBJECTIVE:	•						
Specific Learning	Teachers Activities	Learning	Specific Learning	Teachers Activities	Learning	Evaluation	
Objectives (Theory)	T 1 1 11 1 C	Resources	Objective(Practical)	m 1 1 11	Resources		
1.1 Define research	Teacher should define	Projector	Students should define	Teacher should	Projector	Test	
	research and list the	Text book	research and list the types of	guide the students	Video/Audio	Examination	
1.2 List and describe the	types of research	Internet	research including the aims of research.	to arrive at a correct	devices		
types of research (e.g.	including the aims of research.	Lecture notes	of research.	answer.	Models		
historical, descriptive,	research.	Charts Pictures			Internet Lecture notes		
experimental etc.)		Whiteboard			Charts		
		Marker			Pictures		
1.3 Explain the aims of		Marker			Whiteboard		
research					Marker		
GENERAL OBJECTIVE: 2	2.0 Explain the features of	research metho	ds		Iviai KCi		
Specific Learning	Teachers Activities	Learning	Specific Learning	Teachers Activities	Learning	Evaluation	
Objectives (Theory)		Resources	Objective(Practical)		Resources		

 2.1 Meaning of research methodology 2.2 Explain research methods 2.3 List and explain the method of conducting research (e.g. survey) 	Teacher should explain methodology used in research based on their types to suit the research.	Projector Text book Internet Lecture notes Charts Pictures White board Marker oach of research	Student should apply methodology to their research.	Teacher should guide the student to come up with a better methodology.	Journals Student's project Internet Newspapers Magazines	Test Examination Report
Specific Learning	Teachers Activities	Learning	Specific Learning	Teachers Activities	Learning	Evaluation
Objectives (Theory)	1 0 0 0 1 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1	Resources	Objective(Practical)	100011011011011011011011011011011011011	Resources	
 3.1 Choose a field of research 3.2 Formulate a research title 3.3 Search for useful sources of information on the field of research (museums, market, hospitals, library, internet, etc.) 3.4 Compile an index card system for research title 3.5 Review related literature on the subject matter of research 	Teacher should lead the student to select an area of research and formulate a researchable topic and review literature basic on the study objectives.	Projector Text book Internet Lecture notes Charts Pictures Whiteboard Marker Journal Projects	Students should formulate a research topic and review literature using available materials like journals and students' projects.	Teacher should guide the student in formulating and reviewing literature.	Journals Students' projects Internet Magazines Newspapers	Test Examination Project Report Project Defense
GENERAL OBJECTIVE:	4.0 Describe the d	lesign and plann	ing of a research			
Specific Learning Objectives (Theory)	Teachers Activities	Learning Resources	Specific Learning Objective(Practical)	Teachers Activities	Learning Resources	Evaluation
 4.1 Explain research design 4.2 Give examples of research design 4.3 List and explain the methods to be applied in research design e.g. intervention and non – intervention studies, 	The Teacher should explain Research Design and the different types of design used in Research.	Projector Text book Internet Lecture notes Charts Pictures Whiteboard Marker	Student should use appropriate design for their research.	Teacher should guide the use of design in research for appropriateness.	Projector Video/Audio Devices Models	Test Examination Classwork assignment

valuation
est
xamination
ssignments
lasswork
valuation
est
xamination
ssignment
lasswork
es xa ss la es xa

6.3 Explain the characteristics of each of the test in 6.2 above 6.4 Determine the suitable of each of the test in 6.2 above	He should also explain the characteristics of the tests identified.					
GENERAL OBJECTIVE: 7				TT 1 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4		- ·
Specific Learning Objectives (Theory)	Teachers Activities	Learning Resources	Specific Learning Objective(Practical)	Teachers Activities	Learning Resources	Evaluation
 Carryout the research experiment using any research design. Collect data for the experiment in 7.1 above. Analyzed the data using appropriate methods. Interpret the results obtained from the research. Write up the report of the research conducted 	Teacher should explain the procedure for carrying out a research and selection of appropriate design for the study. He should explain how results are interpreted and report documented.	Whiteboard Marker Textbooks Lecture notes Internet Charts	Student should carryout research and select sample, that is representative of the research population They should also interpret their results and write report on the research.	Teacher should guide the student to arrive at a more valid and credible research.	Whiteboard Marker Textbooks Lecture notes Internet Charts	Assignments Tests Examination Classwork
GENERAL OBJECTIVES:	8.0 Layout of rese	earch report		1	1	1
Specific Learning Objectives (Theory)	Teachers Activities	Learning Resources	Specific Learning Objective(Practical)	Teachers Activities	Learning Resources	Evaluation
Explain Research Report Layout using the following Format: - Preliminary - Title paper - Preface - Acknowledgement - Abstract - Table of contents - List of tables, charts etc List of abbreviations - Body of the reports - Introduction	Teacher should explain the procedure in reporting research outcomes based on some agreeable headlines.	Whiteboard Marker Textbooks Lecture notes Internet Charts	Students should report the outcome of their research based on the agreeable headings.	Teacher should guide the student in writing appropriately.	Whiteboard Marker Textbooks Lecture notes Internet Charts	Assignments Tests Examination Classwork

- Literature review			
- Material and method			
- Results and findings			
- Discussion			
- Conclusion and			
recommendations			
- References			

COURSE TITLE: Introduction to Emergency Response

COURSE CODE: PHT 213

DURATION: Lecture: - 25Hrs Tutorial: Nil Practical: - 5Hrs Total: 30Hrs

CREDIT UNITS: 2

GOAL: This course is intended to equip the students with the knowledge and skills to carry out environmental health activities in emergencies

GENERAL OBJECTIVE: On completion of the course, the student should be able to:

- 1. Understand disaster management cycle.
- 2. Know steps involved in disaster /emergency preparedness.
- 3. Demonstrate how to carry out disaster/emergency response operations.
- 4. Understand the role of Public Health Professionals at recovery stage in disaster management.
- 5. Recognize mitigation process in disaster management.
- 6. Understand the National policies and guidelines on disaster management

GENERAL OBJECTIVE: 1.0 Understand disaster management cycle.

Specific Learning Objectives (Theory)	Teachers Activities	Learning Resources	Specific Learning Objective(Practical)	Teachers Activities	Learning Resources	Evaluation
1.1 Define disaster management	Define disaster	Bulletins	Develop	Guide students to	Bulletins	Continuous
1.2 States the objectives of	management and	Charts	disaster preparedness	develop both	Charts	assessment
disaster management	draw the cycle	Internet/Intranet	plan (rehearsal,	long and short	Internet/Intranet	Practical
1.3 Describe the disaster	showing all the	Journals	awareness, building	term plan for	Journals	Assignment
management cycle:	components	Lecture notes	early warning signs,	disaster	Lecture notes	Examination
 Preparedness 		Pictorials	availability of	preparedness	Pictorials	
 Response 		Projector	equipment,		Projector	
• Recovery		Text book	procurement of relief		Text book	
 Mitigation 			materials)			

GENERAL OBJECTIVE: 2.0 Know steps involved in disaster/emergency preparedness

Specific Learning Objectives	Teachers	Learning	Specific Learning	Teachers	Learning	Evaluation
(Theory)	Activities	Resources	Objective (Practical)	Activities	Resources	

2.1 Explain emergency	Explain	Bulletins	Develop emergency	Complete the	Bulletins	Continuous
preparedness and its goal.	•	Charts	preparedness plan	sample planning	Charts	assessment
	emergency		preparedness plan	1 1		
2.2 Outline programs for	preparedness and	Internet/Intranet		template and	Internet/Intranet	Practical
emergency preparedness	its goal.	Journals		guide the	Journals	Assignment
(developing plans, awareness		Lecture notes		students to	Lecture notes	Examination
creation, procurement of	Explain the	Pictorials		develop the plan	Pictorials	
materials, etc.)	programs	Projector			Projector	
	outlined.	Text book			Text book	
GENERAL OBJECTIVE: 3.0	Demonstrate h	ow to carry out disa	aster/emergency response	operations		
Specific Learning	Teachers	Learning	Specific Learning	Teachers	Learning	Evaluation
Objectives(Theory)	Activities	Resources	Objective(Practical)	Activities	Resources	
3.1 Explain emergency response.	The teacher	Bulletins	Develop emergency	Complete the	Bulletins	Continuous
	explains	Charts	response plan.	sample planning	Charts	assessment
3.2 State the steps involved in an	emergency	Internet/Intranet	•	template and	Internet/Intranet	Practical
emergency response (aids,	response and	Journals		guide the	Journals	Assignment
shelter, rehabilitation and	states the steps	Lecture notes		students to	Lecture notes	Examination
reconstruction)	involved in	Pictorials		develop the plan.	Pictorials	
	emergency	Projector		Lead the students	Projector	
	response.	Text book		to camps, re-	Text book	
				settlement sites.		
CENTED AT OBJECTIVE AS A		CD 11: YY 11 D				
GENERAL OBJECTIVE: 4.0 U			<u> </u>	<u> </u>		
Specific Learning Objectives	Teachers	Learning	Specific Learning	Teachers	Learning	Evaluation
(Theory)	Activities	Resources	Objective (Practical)	Activities	Resources	
4.1 Explain recovery in disaster	Explains	Bulletins	Demonstrate how to	Teacher	Bulletins	Continuous
management.	recovery and its	Charts	carry out recovery	demonstrates	Charts	assessment
4.2 Outline the focus areas at	goal.	Internet/Intranet	exercise.	how to carry out	Internet/Intranet	Practical
recovery phase (temporary		Journals		recovery	Journals	Assignment
housing; public information;	Explains areas of	Lecture notes		activities.	Lecture notes	Examination
health and safety education;	concern at	Pictorials			Pictorials	
reconstruction; counseling	recovery phase	Projector			Projector	
programs; and economic	and their	Text book			Text book	
impact studies, rebuilding and	importance.					
documentation of lessons	_					
learned).						
GENERAL OBJECTIVE: 5.0Re	ecognize mitigation p	process in disaster r	nanagement			
	· •					

Specific Learning Objectives	Teachers	Learning	Specific Learning	Teachers	Learning	Evaluation
(Theory)	Activities	Resources	Objective (Practical)	Activities	Resources	
5.1 Explain mitigation and its aim	Teacher explains	Bulletins	Demonstrate	Teacher	Bulletins	Continuous
in relation to disaster	mitigation and its	Charts	mitigation action	demonstrates	Charts	assessment
management.	aim.	Internet/Intranet	against disaster.	how to construct	Internet/Intranet	Practical
5.2 Describe mitigation	Also explains	Journals		building codes,	Journals	Assignment
strategy to be carried out in	mitigation	Lecture notes		and carry out	Lecture notes	Examination
alleviating the impact of	strategies in	Pictorials		vulnerability	Pictorials	
disaster to affected victims	disaster	Projector		assessment, and	Projector	
(building codes & zoning,	management.	Text book		health talk.	Text book	
vulnerability analysis, public						
education, land use policy)						
GENERAL OBJECTIVE 6.0: U	nderstand the Nation	al policies on disas	ster management			
Specific Learning Objectives	Teachers	Learning	Specific Learning	Teachers	Learning	Evaluation
2	Activities	Resources	Objectives	Activities	Resources	
6.1 Explain the term policy	Explains the term	Lecture notes				Continuous
6.2 Outline basic policies and	policy and					assessment
guidelines on disaster	outline some	Books				Practical
management such as:	relevant policies					Assignment
 policy on establishment of 	and guidelines.	Journals				Examination
disaster management agencies						
(NEMA, SEMA, LEMC,	Identify relevant	Charts				
IDPC)	agencies and	Charts				
 disaster prevention policy 	their roles.	Projector				
 National policy on 		Trojector				
environment						
 Guidelines on disaster 						
management, etc.						
6.3. State agencies involved in						
disaster management						
6.4. Outline the roles of the						
aganaias statad in 6.2					1	

agencies stated in 6.3.

PROGRAMME: NATION	PROGRAMME: NATIONAL DIPLOMA (ND) IN PUBLIC HEALTH TECHNOLOGY						
COURSE TITLE: Materna	COURSE TITLE: Maternal and Child Health						
COURSE CODE: PHT 214							
DURATION:	Lecture: -	Tutorial: Nil	Practical: -15Hrs		Total:	45Hrs	
	30Hrs						
CREDIT UNITS: 3							
GOAL: The course is intended	ed to provide	the students with the basic knowledge and	d skills necessary to unde	rstand materi	nal and child health	problems.	
GENERAL OBJECTIVE:	On completion	n of the course, the student should be able	to understand Reproduct	tive, Materna	l & Child Health (l	RCH)	
GENERAL OBJECTIVE:	1.0 U1	nderstand Reproductive, Maternal & Chil	d Health (RCH)				
Specific Learning	Teachers	Learning Resources	Specific Learning	Teachers	Learning	Evaluation	
Objectives (Theory)	Activities		Objective(Practical)	Activities	Resources		
Explain the following:	The	Bulletins	Students should	To guide	Bulletins	Continuous	
1.1 MCH/RCH	Teacher	Charts	carryout MCH	the	Charts	assessment	
1.2 Mother & child as one	should	Internet/Intranet	services.	student	Internet/Intranet	Practical	
unit	explain	Journals		through	Journals	Assignment	
1.3 Care of mother during	MCH/RCH	Lecture notes		the	Lecture notes	Examination	
pregnancy and lactation	to the	Pictorials		process	Pictorials		
1.4 Intranatal Period	students	Projector		of MCH	Projector		
1.5 Postnatal period	including	Text book			Text book		
1.6 Care of children	its						
1.7 Neonatal care	different						
1.8 Care of infant	facets.						
1.9 Feeding of Infants							
1.10 Immunization							
1.11 Care of pre-school							
child							
1.12 Growth &							
development							
1.13 School health							
1.14 Adolescent health							
1.15 Indicators of RCH services							
1.16 Reproductive & Child							
Health (RCH) program & services							
1.17 Postpartum program							

1.18 Family welfare			
programs			
1.19 Child labor			

PROGRAMME: NATIONAL DIPLOMA (ND) IN PUBLIC HEALTH TECHNOLOGY						
COURSE TITLE: In	COURSE TITLE: Introduction to Microbiology and Parasitology					
COURSE CODE: ST	B 211					
DURATION: Lecture: -30Hrs Tutorial: Nil Practical: - 15Hrs Total: 45Hrs						
CDEDITE LIMITED. 2						

CREDIT UNITS: 3

GOAL: The course is intended to equip the students with knowledge and skills on microorganisms and parasites of public health importance.

GENERAL OBJECTIVE: On completion of the course, the student should be able to:

- 1. Understand the meaning of microbiology, microbes and their general characteristics and morphology.
- 2. Understand the meaning of Protozology.
- 3. Understand the concept of Parasitology
- 4. Understand the concept of Helminthology

GENERAL OBJECTIVE:	GENERAL OBJECTIVE: 1.0 Understand the meaning of microbiology, microbes and their general characteristics and morphology.							
Specific Learning	Teachers Activities	Learning	Specific Learning	Teachers	Learning	Evaluation		
Objectives (Theory)		Resources	Objective (Practical)	Activities	Resources			
Discuss the following:	The Teacher should	Bulletins	Students should carryout	Teacher should	Bulletins	Continuous		
1.1 General characteristics	explain parasites, their	Charts	laboratory techniques and	guide the	Charts	assessment		
of parasites	morphology and	Internet/Intranet	control protozoans of public	students to	Internet/Intranet	Practical		
1.2 Classification &	general characteristics,	Journals	health importance.	conduct the	Journals	Assignment		
morphology	diseases caused by	Lecture notes		laboratory	Lecture notes	Examination		
1.3 Diseases causation by	parasites and the	Pictorials		techniques.	Pictorials			
parasites	laboratory techniques	Projector			Projector			
1.4 Laboratory techniques	used to study and	Text book			Text book			
used in the study &	control.							
control of protozoan	Protozoans of public							
infections of public	health importance							
health importance.	should be explained.							
GENERAL OBJECTIVE: 2	2.0 Understand th	e meaning of Proto	ozology			·		

Specific Learning Objectives	S Teachers Activities	Learning	Specific Learning	Teachers	Learning	Evaluation
(Theory)	TTI TD 1 1 11	Resources	Objective (Practical)	Activities	Resources	a :
2.1 General characteristics of	The Teacher should	Bulletins	Students should explain	Teacher should	Bulletins	Continuous
protozoan	explain protozoans,	Charts	protozoans, their	guide the	Charts	assessment
2.2 Classification &	their characteristics,	Internet/Intranet	characteristics,	students in	Internet/Intranet	Practical
morphology of protozoan	morphology,	Journals	morphology and the	accomplishing	Journals	Assignment
2.3 Diseases causation by	diseases caused by	Lecture notes	diseases caused by them.	the task of	Lecture notes	Examination
protozoan	them and the	Pictorials	They should also	laboratory	Pictorials	
2.4 Laboratory techniques use		Projector	carryout laboratory	analysis.	Projector	
in the study & control of	techniques used to	Text book	techniques to study and		Text book	
protozoan infections of	study and control		control protozoans of			
public health importance.	them.		public health			
			importance.			
GENERAL OBJECTIVE: 3	.0 Understand th	e concept of Parasit	tology			
Specific Learning	Teachers Activities	Learning	Specific Learning	Teachers	Learning	Evaluation
Objectives (Theory)		Resources	Objective (Practical)	Activities	Resources	
3.1 General characteristics	The Teacher should	Projector	Students should	Teacher should	Projector	Continuous
of parasites	explain parasites, their	Text book	explain parasites, their	guide the	Text book	assessment
3.2 Classification &	characteristics,	Internet/Intranet	characteristics,	students in	Internet/Intranet	Practical
morphology	morphology, diseases	Lecture notes	morphology and the	accomplishing	Lecture notes	Assignment
3.3 Diseases causation by	caused by them and	Charts	diseases caused by	the task of	Charts	Examination
parasites	the laboratory	Pictorials	them.	laboratory	Pictorials	
3.4 Laboratory techniques	techniques used to	Laboratory	They should also	analysis.	Laboratory	
used in the study &	study and control	Reagents	carryout laboratory		Reagents	
control of protozoan	them.	Bulletins	techniques to study		Bulletins	
infections of public		Charts	and control parasites		Charts	
health importance.		Journals	of public health		Journals	
			importance.			
GENERAL OBJECTIVE: 4	4.0 Understand th	e concept of Helmin	nthology			•
Specific Learning	Teachers Activities	Learning	Specific Learning	Teachers	Learning	Evaluation
Objectives (Theory)		Resources	Objective (Practical)	Activities	Resources	
4.1 General characteristics	The Teacher should	Projector	Students should explain	Teacher should	Projector	Continuous
of helminthes	explain helminthes,	Text book	helminthes, their	guide the	Text book	assessment
4.2 Classification &	their characteristics,	Internet/Intranet	characteristics,	students in	Internet/Intranet	Practical
Morphology	morphology, diseases	Lecture notes	morphology and the	accomplishing	Lecture notes	Assignment
4.3 Life cycle of helminthes	caused by them and	Charts	diseases caused by them.	the task of	Charts	Examination
	the laboratory	Pictorials			Pictorials	

4.4 Natural history of	techniques used to	Laboratory	They should also	laboratory	Laboratory	
diseases	study and control	Reagents	carryout laboratory	analysis	Reagents	
4.5 Prevention & control of	them.	Bulletins	techniques to study and		Bulletins	
helminthes of public		Charts	control helminthes of		Charts	
health importance		Journals	public health		Journals	
			importance.			

PROGRAMME: NATIONAL DIPLOMA (ND) IN PUBLIC HEALTH TECHNOLOGY						
COURSE TITLE: Seminar	COURSE TITLE: Seminar					
COURSE CODE: PHT 216						
DURATION:	Lecture: - 15Hrs	Tutorial:	Practical: - 15Hrs	Total: 30Hrs		
CDEDIT UNITS: 2						

GOAL: This course is designed to equip students with the skills required in content development and presentation

GENERAL OBJECTIVE: On completion of the course, the student should be able to:

- 1.0 Understand the format for seminar preparation2.0 Understand the approaches and methodology in presenting seminar paper

GENERAL OBJECTIVE: 1.0 Und		seminar preparation			
Specific Learning Objectives Teachers	Learning	Specific Learning	Teachers	Learning	Evaluation
(Theory) Activities	Resources	Objective(Practical)	Activities	Resources	
1.1 Outline and explain the format for developing seminar paper e.g.; Title, introduction, diagrams, body, summary, conclusion and recommendations including references. Teachers of explain the and deliver guideline seminar.	e outline White boards	Student should make an outline and deliver seminar.	Teacher should guide the development of fact and delivery of seminar	Projector White boards Internet Lecture notes Charts Pictures Marker Handbills	 Oral presentation Written presentation Class participation Good findings

GENERAL OBJECTIVE: 2.0 Understand the approaches and methodology in presenting seminar paper

Specific Learning Objectives	Teachers			Teachers	Learning	Evaluation
(Theory)	Activities	Resources	Objective(Practical)	Activities	Resources	
2.1 Explain various approaches	Teacher should	Projector	Student should make a	Teacher should	 Projector 	Continuous
and factors influencing effective	explain the	White	good presentation to	act as a guide and	 Video/Audio 	assessment
presentation e.g. Dress code,	requirement of	boards	audience.	resource during	devices	Practical
	marking a good	Internet		the presentation.	 Models 	Assignment

time management, fluency,	presentation to the	Lecture		•	Lecture notes	Examination
boldness, resourcefulness, etc.	audience.	notes		•	White board	
		Charts		•	Marker	
		Pictures		•	Internet	
		Handbills				
		Markers				
		Posters				

PROGRAMME: NATIONAL DIPLOMA (ND) IN EPIDEMIOLOGY AND DISEASE CONTROL								
COURSE TITLE: Practice of Entrepreneurship								
COURSE CODE: EED 216								
DURATION:	Lecture: - 15Hrs Tutorial: Practical: - 15Hrs Total: 30 HRS							
CREDIT UNITS: 2								
GOAL : This course	GOAL : This course is designed to equip the student with necessary entrepreneurial skills for self-employment							
GENERAL OBJECT	ΓΙVE: On completion of the	course, the student s	hould be able to:					

- 1. Know techniques for generating business ideas and the process of identifying and assessing business opportunities
- 2. Know how to evaluate a business idea for developing an enterprise
- 3. Know methods of product/service selection
- 4. Understand the process and procedure for starting an Enterprise
- 5. Know the operational techniques in managing an Enterprise
- 6. Understand the various existing industries and support agencies in Nigeria
- 7. Appreciate the role of commercial and development banks in small and medium scale industries development
- 8. Understand the role of personal savings and portfolio investment in National Economic Development

GENERAL OBJECT	FENERAL OBJECTIVE: 1.0 Know techniques for generating business ideas and the process of identifying and assessing business opportunities Pecific Learning Teachers Activities Learning Specific Learning Teachers Activities Learning Evaluation											
Specific Learning	Teachers Activities	Teachers Activities Learning		Teachers Activities	Learning	Evaluation						
Objectives (Theory)		Resources	Objective (Practical)		Resources							
1.1 Define business	Explain business	Textbooks	Identify business	Guide students to identify business	Computer	Assignment						
opportunity. 1.2 State the process	opportunities and process of	Journals. Projectors	opportunities using SWOT Analysis.	opportunities using SWOT Analysis	Text	Test Examination						
of Exploring	exploring them.	Notebooks	5 WOT Analysis.	Guide students to conduct market	books,	Lammation						
opportunities.	Explain the process of	Whiteboard	Conduct market	survey to enable them select the								
1.3 Identify business	product/service	Marker	survey and select	most viable business venture.	Use of							
opportunities	selection.	Internet	the most viable	Demonstrate using appropriate	internet							
(SWOT Analysis)	Explain SWOT Analysis and how		business venture.	application package, product								

1.4 State the process of conducting a market survey in other to establish demand/supply gap. 1.5 State the process of business idea generation.	to identify busines opportunities. Explain the proce conducting marks survey and selecting a viable business venture. Explain the proce business idea gen	ess of et			order track Set up stud of setting tenterprise Invite a sud give a talk. Make the s	lents groups with the tas up a small business ccessful entrepreneur to	Relevant video clip k Guest speakers from successfu businesse	1
80	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2			j	idea which	would further be		
GENERAL OBJECT	 IVE: 2.0Know ho	ow to evaluate a	business idea for dev			o feasible business plan		
Specific Learning	Teachers	Learning	Specific Learning	<u>, , , , , , , , , , , , , , , , , , , </u>	•	s Activities	Learning	Evaluation
Objectives (Theory)	Activities	Resources	(Practical)				Resources	
2.1 Define the concept of business plan.2.2 Explain the process of preparing	Explain a business idea. Explain the	Journey Projector	Prepare a preliminar proposal. Set-up student grouinitial start-up capi	ups with an	prelimina Using the	adents in preparing a ary project proposal. e on-going business uide students to	Computer complete with accessories	Test Examination
preliminary project proposal. 2.3 Explain the process of preparing a	concept of busine plan and project proposal.	3	N10,000.00 and th of setting up a sma enterprise. Conduct a modest	ll business	present is	a business plan and t to a panel ssful entrepreneurs, the ald consider	and D base Internet connection.	
detailed business plan. 2.4 Conduct a model business plan on a selected venture.	Relate business idea to business plan and project proposal.		plan on a selected Present the plan to successful entrepre assessment. Explore Internet for company profil	venture. a panel of eneur for	sale force analysis, loan amo Explore	cast, time sheet employee tracking, ortization etc. Internet for profile, product product information,	Textbooks.	
	Describe the step in preparing a model business plan.		catalog, product information, URL management. Conduct a model business plan on a selected venture.		URL management. The written business plan should be assessed as part of continuous assessment.			
GENERAL OBJECT			of product/service sel				T = -	T
Specific Learning Obj (Theory)	jectives Teach	ers Activities	0	Specific Lear Objective (P	0	Teachers Activities	Learning Resources	Evaluation

3.1 Define product /service.	Explain product	Text Books	Analyze a given case in	Guides students to	Text Books	Test
3.2 Explain the nature and	selection, criteria and	Journals	product selection.	analyze a case in	Journals	Examination
characteristics of product/	factors associated with	Publications.		product selection.	Publicatio	
service.	selection.	Projector	Select a product	Invite an	ns.	
3.3 Explain product selection			Prepare feasibility	Entrepreneur to speak	Projector	
criteria.	Explain venture idea		report on a modern	on venture		
3.4 Identify key factors	generation.		business and evaluate	idea generation and		
associated with product	Explain steps		the viability,	product selection		
selection.	involved in		methodology and CBA.			
Infrastructure	preliminary		(Cost Benefit	Guide students to		
Technology	screening.		Analysis)	prepare feasibility		
Availability of raw material.	Explain steps in		-	studies on a model		
Government	preparing pre-		Generate venture	institution based		
Policy/Regulation	feasibility study.		idea on selected	business and evaluate		
-Legal aspects of business.	Explain the adequacy of		exportable product	the viability,		
3.5 Explain Venture	infrastructural facilities,		obtained from the web.	methodology and		
Idea Generation.	relevant technology and			(Cost Benefit		
3.6 Explain the steps	adequacy of raw			Analysis) CBA.		
involved in preliminary	materials for the selected					
screening.	product.			Guide students to use		
3.7 Explain the different steps	Explain effects			web based		
in preparing pre-feasibility	of government policy			information to		
study.	and regulation as well			generate venture idea		
3.8 Evaluate adequacy of	as legal aspects of			on an exportable		
infrastructural facilities for	business on the			product.		
product selection.	selected product					
3.9 Identify the relevant				Organize visit to a		
technology available				small business outfit to		
for the selected product.				understudy		
3.10 Evaluate sources and				infrastructural		
adequacy of raw materials				facilities, available		
for the selected product.				technology, sources		
3.11 Explain effects of				and adequacy of raw		
government policy and				materials, effect of		
regulations on the selected				Government policy		
product.				and regulation and		

3.12 Identify legal aspects of business in product selection.						legal aspects of the business.		
GENERAL OBJECTIVE: 4.0U								
Specific Learning Objectives	Teachers Activities	Learnii	_	Specific Learnin	_	Teachers	Learning	Evaluation
(Theory)		Resour		Objective (Pract			Resources	
4.1 Outline the main features of the	1	Textboo	oks	Prepare Memorar	ndum	Guide students to	Text books	Test
Companies and Allied Matters	features of the CAM.			and articles of		prepare		Examination
Act (CAMA) 1990 and the	with special referenc			Association for a		Memorandum	CAMA	
subsequent amendments.	provisions relating to	•		hypothetical com	pany			
4.2 Explain the functions of the	registration and	Articles	and			Association of a	Internet	
Corporate Affairs Commission	incorporation busines		of	Identify documen	nts	hypothetical	(CAC	
(CAC) under the Companies ar	L *	s of Associa	tion	required for		company.	Website)	
Allied Matters Act 1990.	CAC.	Certifica	ate of	incorporation.				
4.3 Explain the legal structure of	Explain the different		ration	Register a busines	SS	Show students		
business.	legal forms of busine			name.		necessary		
4.4 State factors to consider in	Explain reasons for a	and				Incorporation		
naming a business.	factors in naming a					documents.		
4.5 Explain the procedure and	business.							
requirements for registration	Explain Memorandu	m				Visit CAC office		
of a business name.	and articles of					nearest to you to		
4.6 Explain the procedure and	association and the					familiarize with its		
requirements for incorporating						operation.		
business.	incorporation of							
4.7 Explain the reasons for the	companies in Nigeria					Guide students to		
existence of registered business						register a		
names and companies.	permits and their issu	iing				hypothetical		
4.8 Identify various agencies	Agencies.					business name		
responsible for issuance of						with the nearest		
licenses and permits.						CAC		
GENERAL OBJECTIVE: 5.0	0 Know the operationa	l techniques	in mana	aging an Enterpri	ise			
Specific Learning Objectives (Theory)		Learning Resources		ic Learning tive (Practical)	Tea	chers Activities	Learning Resources	Evaluation
5.1 Define management and a	Explain the	Text Books			Guio	de student to	Text books	Test
	functions,				drav	v an organ gram to suit		Examination
	techniques and skills		small	0		selected business	Sample	
	of management.		enterp	orise.	vent	ture.		

5.3 Explain management		Specimen			
structure for an enterprise.	Draw a	of financial	Identify	Demonstrate the techniques	Record
5.4Explain the communication	management	records.	communication	and skills of communication	books
process in the management	structure to suit		process in the	process in the management	
of an enterprise.	the viable project	Cardboard	management of	of the selected business	Projector
5.5 Explain the techniques	selected by		an enterprise.	venture, using computer	
and skills of:	students	Marker.		networking of not less	Organogram
i. Planning			Explain the	than 3 computers.	
ii. Organizing	Explain the	Organogram	function areas of		
iii. Staffing	techniques of		business	Demonstrate, using	
iv. Leading	the functional		management,	appropriate application	
Controlling	areas of		planning,	packages, techniques	
5.6 Explain the basic techniques	management.		organizing, etc.	and skills of: Business	
of marketing, production				planning Business	
and financial management	Explain principles of			positioning	
in an enterprise.	record keeping,				
5.7 Explain the principles of	auditing and				
record keeping, auditing and	taxation.				
taxation.			. 1 1		

GENERAL OBJECTIVE: 6.0 U	Inderstand the various	us existing ind	lustries and support agenc	ies in Nigeria		
Specific Learning Objectives (Theory)	Teachers	Learning	Specific Learning	Teachers Activities	Learning	Evaluation
	Activities	Resources	Objective (Practical)		Resources	
6.1 Explain various industry/support	Explain Industry,	Textbooks	Identify types and	Guide students to visit	Computer	Test
agencies.	types and support		source of plants	websites to	and	Examination
6.2 Explain the types, and sources of	agencies.	Journals	and machineries	identify types and	accessories	
materials used in both manufacturing		CD's/Film	used in small	sources of machinery	with	
and service Industries.	Explain the	VCR	scale industries, nature	and plants, material	Internet	
6.3 Explain the types and sources of	nature, types		and type of material	inputs for small scale	connection.	
plants and machinery used in small	and sources		inputs and information	industries,		
scale Industries.	of materials,		about market and	information and	Textbooks	
6.4 Explain the various information and	machineries and		financial assistance.	assistance for	and	
assistance for vital areas like finance,	information			finance market etc.	journals.	
registration, project	in enterprises.			Form groups and		
selection, training, marketing,			Prepare a report	assign them out of class.		
research, quality control, raw			and share experience.	Visit/experience in		
materials, patent information etc.			_	selected enterprise.		

6.5 Explain environmental factors associated with Industrial and economic development in Nig				Groups to share experiences on the visit		
GENERAL OBJECTIVE: 7.0	Appreciate the role of c	ommercial and	development banks in s	mall and medium scale	industries develo	pment
Specific Learning Objectives (Theory)	Teachers Activities	Learning Resources	Specific Learning Objective (Practical)	Teachers Activities	Learning Resources	Evaluation
 a. Identify financial institutions involved in entrepreneurial development. 7.2 Explain the role of Banks and financial institutions in the creation and development of enterprises. 7.3 Explain government policy on financing small and medium enterprises. 7.4 Explain the role of microfinance (Formal and Informal) in financing enterprise. 7.5 Explain the role of capital markets in Financing enterprise. 	Explain the role of financial institutions in entrepreneurial development. Explain the role of commercial and development Bank in the promotion and development of SME. Examine government policies on financing SME. List support agencies for SME's Nigeria- NEPC,IDCs, BOI, NACR DB etc. Explain government policy on financing SMEs.	Textbooks Journals and other publications.	Identify sources of Finance to SME's and how to access their funds	Guide students to identify sources of finance for SME's . Invite a Finance Expert to give a talk. Guide students to develop healthy banking culture: Good customer relations regular lodgment bank reconciliation.	Projector Computer Internet.	Test Examination
	3.0 Understand the role of pe	rsonal savings	and portfolio investme	ent in National Econor	nic Developmen	t
Specific Learning Objectives	Teachers Activities	Learning	Specific Learning	Teachers Activitie		Evaluation
(Theory)		Resources	Objective (Practical)		Resources	
8.1 Define the following; Income, expenditure and savings.	Explain savings Explain how savings are channeled into productive	Textbooks Journals and	Calculate interest rates Develop personal	s. Show various methods of computing interest.	Textbooks Journals and other	Test Examination
8.2 Explain the role of savings in starting and sustaining businesses	ventures. Explain the benefits of interes Explain the role of	other publications	budget for one month. Create a spreadsheet	Guide students to develop a personal budget for	publications Computer.	
8.3 List the benefits of interest. 8.4 Explain personal Financial Planning and management.	budgeting in personal economics. Describe shopping habits.		for a budget	one month. Guide students to create a		

8.5 Explain shopping habits	s. Analyze portfo	olio		Learn to save and	spreadsheet fo	r a				
8.6 Explain portfolio	investment.			invest in portfolio.	budget.					
investment-shares, bon	ds, Explain thrift	societies and			Invite a stock					
debentures.	how they oper	ate.			broker to give	a talk.				
PROGRAMME: NATIONAL DIPLOMA (ND) IN PUBLIC HEALTH TECHNOLOGY										
COURSE TITLE: Publi	c Health Planning ar	d Management								
COURSE CODE: PHT	221									
DURATION : I	Lecture: - 35Hrs	Tutorial: 10Hrs	Practical: - Nil			Total: 45Hrs				
CREDIT UNITS: 3										
COAL This serves is int		1 4	an and abillan		معالمسم عالمام معاسم	. 141.				

GOAL: This course is intended to equip the students with knowledge and skills needed to manage and plan health and health interventions and programs

GENERAL OBJECTIVE: On completion of the course, the student should be able to explain the skill of health planning at different locations.

GENERAL OBJECTIVE: 1.0 Understand the skills of Health Planning at different levels

GENERAL OBJECTIVE. 1.0 Charistand the skins of fleatin I mining at different levels							
Specific Learning Objectives	Teachers	Learning	Specific Learning	Teachers	Learning	Evaluation	
(Theory)	Activities	Resources	Objective(Practical)	Activities	Resources		
1.1 Define some terms related to	Teacher should	Bulletins	Student should define	Teachers should	Bulletins	Continuous	
Health Planning	explain some terms	Charts	relevant terms in Health	guide the	Charts	assessment	
1.2 Explain Planning cycle	related to Health	Internet/Intranet	Planning.	students in their	Internet/Intranet	Practical	
1.3 Discuss on the Management	Planning, Planning	Journals		explanations	Journals	Assignment	
methods & techniques	Cycle And	Lecture notes	They should discuss on		Lecture notes	Examination	
(PERT, CPM)	Management	Pictorials	the methods of		Pictorials		
1.4 Expatiate on Personnel,	Methods	Projector	Management.		Projector		
financial & material		Text book			Text book		
management							
1.5 Explain the Principles of							
planning of health services at							
district /PHC level							
1.6 Demonstrate the activity							
planning for epidemics,							
floods refugees							
1.7 Expatiate on Hospital							
management							
1.8 Describe the Principles of							
Management							

	2344 PYDY 6354 (A							
PROGRAMME: NATIO		(D) IN PUBLIC H	EALTH TECHOLOGY					
COURSE TITLE: First Aid COURSE CODE: PHT 222								
	Lecture: - 30Hrs	Tutorial: Nil	Practical: - 1	£II	Total: 45Hrs			
DURATION:	Lecture: - 30Hrs	1 utoriai: Nii	Practical: - 1	OHrs	Total: 45Hrs			
CREDIT UNITS: 3	1 4	1	: 1		f11			
	-		identify and treat common n	ninor ailments and make	referrals where nec	essary.		
GENERAL OBJECTIVI								
	ocedure for identifying							
	eatment procedure of t							
		*	ifying the common minor ail		· ·	T 1 4°		
Specific Learning	Teachers Activities	Learning	Specific Learning	Teachers Activities	Learning	Evaluation		
Objectives (Theory)	Acuviues	Resources	Objective (Practical)		Resources			
1.1 Explain common	Teachers should	Bulletins	Students should identify	Teacher should	Bulletins	Continuous		
minor ailments at	identify common	Charts	and treat common minor	guide the student to	Charts	assessment		
community level. E.g.	minor ailments at	Internet/Intranet	ailments in the community,	identify and treat	Internet/Intranet	Practical		
Burns, Fracture, STIs,	the community.	Journals	e.g, bone fractures, snake	common minor	Journals	Assignment		
CCDs, NCDs, etc.		Lecture notes	bites, STIs, CCD, NCB,	ailments in the	Lecture notes	Examination		
1.2 Explain cases of snake		Pictorials	etc.	community.	Pictorials			
bite, scorpion sting,		Projector			Projector			
Epilepsy, etc.		Text book			Text book			
GENERAL OBJECTIVI	E: 2.0 Understand the	treatment procedur	e of the common minor ailme	ents.				
Specific Learning	Teachers	Learning	Specific Learning	Teachers Activities	Learning	Evaluation		
Objectives (Theory)	Activities	Resources	Objective (Practical)		Resources			
2.1 Explain the treat of	Teacher should	Bulletins	Demonstrate the	To guide the student	Bulletins	Continuous		
the ailments identified		Charts	common ailments in	in the treatment of	Charts	assessment		
in 1.1 and 1.2 above.	ailment for the	Internet/Intranet	their community and	minor ailment	Internet/Intranet	Practical		
	students to see the	Journals	treatment.		Journals	Assignment		
2.2 Explain the treat of	real example.	Lecture notes			Lecture notes	Examination		
any emerging ailments		Pictorials			Pictorials			
as can be identified in		Projector			Projector			
the community.		Text book			Text book			

COURSE TITLE: Introduction to Public Health Pest Management

COURSE CODE: EHT 211

DURATION: Lecture: - 30Hrs Tutorial: Nil Practical: - 15Hrs Total: 45Hrs

CREDIT UNITS: 3

GOAL: This course is designed to enable students acquire knowledge in Public Health Pest management

GENERAL OBJECTIVE: On completion of the course, the student should be able to:

- 1. Understand the concept of pest management on public Health
- 2. Understand the methods of pests prevention (exclusion) in pest management and the limitations
- 3. Understand the principles of pest management by eradication
- 4. Explain Manipulation of the Environment as a Method of Pest Management
- 5. Analyze Biological Control

GENERAL OBJECTIVE: 1.0 Understand the concept of pest management on public Health

	ecific Learning Objectives	Teachers	Learning	Specific Learning	Teachers	Learning	Evaluation
	eory)	Activities	Resources	Objective (Practical)	Activities	Resources	
1.1	Define the following:	Teacher explains	Projector	Collect samples of all	Group Students into	Projector	Assignment
•	Pests	definition of Pest	Text book	common pests of human	pairs for collection	Video/Audio	Test
•	Pest Management	management	Internet	body, stored product,	of samples.	devices	Examination
•	Public Health		Lecture	livestock, house-hold,		Models	
1.2	Discuss the types of Pests	Teacher should	notes	Field crops.			
	associated with the following.	identifies various	Charts	Collect samples of			
•	Field Crops	parts of the pest	Pictures	common pests from			
•	Stored Agricultural Produce			-Human body,			
•	Human Body,			-Stored products,			
•	House-hold			-Livestock,			
•	Livestock.			-House-hold,			
1.3	Explain the process of Pest			-Field crops,			
	identification			-Catering establishments			
1.4	Discuss the importance of Pest			etc.			
	Management on Public Health						
1.5	Classify Pests according to						
	target organism and nature of						
	damage.						
1.6	Discuss different methods of						
	Pest Classification as						
	follows:						
•	By host						

Biological classificationNature of damage						
Geography						
1.7 Classify all common Pests	 					
according to the following:	 					
Human body,	 					
Stored products,	 					
• Livestock,	 					
House-hold,	 					
• Field crops,	 					
• Catering establishments etc.	 					
GENERAL OBJECTIVE: 2.0	Understand the me	ethods of pests	prevention techniques (exclu	ision) in pest manager	nent and the limit	ations
Specific Learning Objectives	Teachers	Learning	Specific Learning	Teachers	Learning	Evaluation
(Theory)	Activities	Resources	Objective (Practical)	Activities	Resources	
2.1 Discuss the various methods of	The Teacher	Projector	Identify local and modern	Moderate students'	Projector	Test
Pest Prevention techniques	should describe	Text book	methods of pest	activities.	Text book	
(Exclusion) as follow:	the various	Internet	prevention.		Internet	Examination
Quantitative.	methods of	Lecture			Lecture notes	
Seed and Plant certification	Exclusion	notes			Charts	
• Treatment of Propagative Organs.	 	Charts			Pictures	
Selection of Disease free or	Also explain the	Pictures			Tutorials	
Elimination of Infective Organs.	limits of each	Tutorials				
Sealing and securing all possible	method					
points of entry into building.	 					
Minimize possible traffic routes	 					
for insects and critters.	 					
Keeping any organic matter away	 					
from the exterior of the building.	 					
• Removing inviting food, water,	 					
nesting and breeding sources.						
GENERAL OBJECTIVE: 3.0		n as a method	of pest management control			
Specific Learning Objectives	Teachers	Learning	Specific Learning	Teachers	Learning	Evaluation
(Theory)	Activities	Resources	Objective (Practical)	Activities	Resources	
3.1 Discuss eradication as a	The Teacher	Projector	Express eradication in	The Teacher	Projector	Test
pest management controls under	should explain	Text book	terms of effect on eco-	should ask the	Text book	
the following:	Principles of Pest	Internet	system preservation.	student questions.	Internet	Examination
Rouging of Diseased individual	Management by	ĺ			Lecture notes	

Eradicating Campaigns	Eradication and	Lecture			Charts	Assignment
 Destruction of Suspects 	also describe the	notes			Pictures	rissignment
Destruction of diseased	various methods	Charts			White board	
• parts of Suspects	of Eradication.	Pictures			Marker	
• Disinfestations	or Endirection.	White board			TVIGINOI	
Treatment of Refuse.		Marker				
GENERAL OBJECTIVE: 4.0	Explain Manipula		ironment as a Method of Pes	t Management		
Specific Learning Objectives	Teachers	Learning	Specific Learning	Teachers	Learning	Evaluation
(Theory)	Activities	Resources	Objective (Practical)	Activities	Resources	
4.1 Explain Manipulation of the	The Teacher should	Projector	Organize a visit to a	Teacher should	Projector	Assignment
Environment as a Method of Pest	discuss	Text book	nearby farm to observe	moderate students'	Text book	Quiz
Management as follows:	manipulation of	Internet	the effects of pest.	activities.	Internet	Test
• selection of Sites and Changing	the environment as	Lecture	•		Lecture notes	Examination
of planting dates	a method of pest	notes			Charts	
Significance of timely	management	Charts			Pictures	
interference/destruction with		Pictures			Tutorials	
monocular agents		Tutorials				
• Use of chemicals as						
protectants.						
GENERAL OBJECTIVE: 5.0	Analyze biologica	al Control				
Specific Learning Objectives	Teachers	Learning	Specific Learning	Teachers	Learning	Evaluation
(Theory)	Activities	Resources	Objective (Practical)	Activities	Resources	
5.1 Analyze biological Control	The Teacher	Projection	Demonstrate biological	Guide students to	Projection	Test
such as	should explain the	Textbook	control of pests.	demonstrate	Textbook	Examination
History of biological control	term biological	Internet		biological control	Internet	
Various methods of biological	control, its	Chart		of pests.	Chart	
control of pest – Use of	methods and	Lecture			Lecture notes	
Predator, Pathogen and	advantage and	notes			Pictures	
Parasite	disadvantage	Pictures			Tutorial	
• Characteristics of effective		Tutorial				
natural enemies/predators						
• describe significant success in						
the use of Control of Pest.						
Advantages and						
disadvantages						

COURSE TITLE: Public/ Environmental Health Laws								
COURSE CODE: EHT 223								
DURATION:	Lecture: - 30Hrs	Tutorial: Nil		Practical: - 15Hrs	Total	: 45Hrs		
CREDIT UNITS: 3								
GOAL: This Course is designed	to enable the students have	knowledge of I	Public Health Laws in Nig	geria.				
GENERAL OBJECTIVE: On o	completion of the course, th	ne student should	d be able to:					
1. Understand the National Lega	al system.							
2. Understand the origin of Nati	onal Public Health Law.							
3. Know the procedure for detec	ction/Abatement of nuisance	ce						
4. Know Court Procedure.								
5. Know Public Health Laws.								
6. Understand Public Health Etl	nics, its history, importance	and application	1					
GENERAL OBJECTIVE: 1.0	Understand the Na	tional Legal Sys	stem					
Specific Learning Objectives	Teachers Activities	Learning	Specific Learning	Teachers Activities	Learning	Evaluation		
(Theory)		Resources	Objective Practical)		Resources			
1.1 Define Law, Legal system,	The teacher explains,	Projector	Explain the National	The Teacher should	Projector	Test		
0 1111 0 1	1 1	L T L D 1	T 10 .	1 . 1 . 1 .	TD . D 1	I		

GENERAL ODUECTIVE: 110	Charles Obstacle 110 Charles and Legal System							
Specific Learning Objectives	Teachers Activities	Learning	Specific Learning	Teachers Activities	Learning	Evaluation		
(Theory)		Resources	Objective Practical)		Resources			
1.1 Define Law, Legal system,	The teacher explains,	Projector	Explain the National	The Teacher should	Projector	Test		
Constitution, Court, etc.	discusses and asks	Text Books	Legal System.	guide students	Text Books			
1.2 Explain the Nature of Law.	questions.	Internet		classwork	Internet	Assignment		
1.3 Enumerate Sources of Law.		Lecture			Lecture Note			
1.4 Discuss the National Legal		Note,			Charts	Examination		
system.		Charts			Constitution			
		Constitution						
CENEDAL OBJECTIVE, 20	Understand the Ori	gin of National	Dublic Hoolth Laws					

			Constitution				
GENERAL OBJECTIVE	: 2.0	Understand the Ori	gin of National	Public Health Laws			
Specific Learning Objective	ves	Teachers Activities	Learning	Specific Learning	Teachers Activities	Learning	Evaluation
(Theory)			Resources	Objective Practical)		Resources	
2.1 Define Public Health La	aw	The teacher Explain,	Projector	Define public Health	The Teacher should	Projector	Test
2.2 Explain Public Heath La	aw.	ask questions	Text Books	Law, implementation	engage students in	Text Books	
2.3 Outline the history of			Internet	and challenges.	classwork.	Internet	Assignment
International Public hea	lth		Lecture Note			Lecture	
Laws.			Charts			Note,	Examination
2.4 Outline the history of			Pictures			Charts	
National Public health I	Laws		Tutorial.			Constitution	
2.5 Discuss the scope of pul	blic						
health laws:							
-Public health laws of North	nern						
Nigeria of 1963							

 Public health laws of Western Nigeria of 1958 Public health laws of Eastern Nigeria. 						
GENERAL OBJECTIVE: 3.0	Know the procedur	Lefor detection/	Abatement of nuisance			
Specific Learning Objectives	Teachers Activities	Learning	Specific Learning	Teachers Activities	Learning	Evaluation
(Theory)		Resources	Objective Practical)		Resources	
3.1 Define Nuisance and Abatement Notice.	The teacher describes the procedures for	Projector	3.1 Demonstrate Detect and abate	Demonstrate how to detect and abate	Premises for inspection	Assignment
3.2 Describe the procedure for detecting nuisances.	abating nuisance.	Text Books	nuisances.	nuisances	Writing material.	Test
InspectionDetection		Internet			Projector Text Books	Examination
Awareness Creation3.3 Describe the procedure for		Lecture			Internet Lecture	
Abating nuisances.		Note,			Note,	
Serving of Abatement notice		Charts			Charts Internet	
 Verification Service of court summons		Internet				
• Prosecution						
3.4 Explain procedure for documentation.						
GENERAL OBJECTIVE: 4.0	Know Court Procedures					
Specific Learning Objectives	Teachers Activities	Learning	Specific Learning	Teachers Activities	Learning	Evaluation
(Theory)	reactions Activities	Resources	Objective Practical)	Teachers Activities	Resources	Lvaluation
4.1 Outline hierarchy of courts in Nigeria.	Teacher should explain the hierarchy of courts	Projector Text Books	Students should explain the court	Teacher should guide the student in	Projector Text Books	Test
Customary/Area/Sharia Court	in Nigeria, their compositions and	Internet Lecture	hierarchy, their compositions and	coming up with the hierarchy and	Internet Lecture	Assignment
Upper Customary/ Area/Sharia Court	fractions.	Notes Charts	functions.	appealing procedure in court.	Notes Charts	Examination
Magistrate Court State High court	He should explain the	Pictures	They should also		Pictures	
State High courtFederal High Court.	produce for filing a case and appeal	Whiteboard Marker	explain the procedure for filing and		Whiteboard Marker	
Special Courts e.g. Tribunals, Industrial	cust and appear		appealing of a case.			

1.0	T		T			
Appeal Court						
• Supreme.						
4.2 Explain the Composition of						
Courts,						
4.3 State the functions of						
Judicial officers: - e.g.						
i. Court bailiff.						
i. Court Registrar.						
i. President/Members						
(Customary/Alkali courts.						
v. Magistrates.						
. Chief Judge						
i. President, Court of Appeal						
i. Chief Justice of Nigeria						
i. Attorney/Solicitor General.						
4.3 State the procedure for filling						
of case.						
4.4 Explain the procedure for						
appearance in court.						
4.5 Explain Injunction, Ruling						
and Judgment.						
4.6 Explain the process of						
Appeal						
4.7 Explain court orders:						
Nuisance order						
Prohibition Order						
 Locus inquest 						
Order of mandamus, etc.						
GENERAL OBJECTIVE: 5.0	Know Public Healt	h Laws				
Specific Learning Objectives	Teachers Activities	Learning	Specific Learning	Teachers Activities	Learning	Evaluation
(Theory)		Resources	Objective (Practical)		Resources	
5.1 Define	Teacher should define	Text Books	Students should define	Teacher to guide	Text Books	Assignment
a. Adult	relevant terms used in	Internet	the relevant terms	and appraise the	Internet	
b. Child	Public Health Law and	Public	used in Public Health	students.	Public	Test
c. Competent Council	the process of making	Health	Law.		Health	
d. Milk shop	the law.	Edicts			Edicts	Examination
e. Health Officer		Constitution			Constitution	
		Court			Court	

f. Medical Officer of	He should also describe		They should describe			
Health	delegation of		the act of delegation			
g. Appropriate Medical	authority/power.		of authority/power.			
officer of health.			7 1			
5.2 Explain the terms:						
a. Bye Law						
b. Adoptive bye law						
c. Applicable bye law						
d. State Laws/Edicts						
e. National Law/ Decree						
5.3 Explain the process of						
making Public health Law						
as applicable to 4.1 above.						
5.4 Describe Delegation of						
Authority.						
GENERAL OBJECTIVE: 6.0	Understand Public Health	Ethics, its histor	ry, importance and applica	ation		
Specific Learning Objectives	Teachers Activities	Learning	Specific Learning	Teachers Activities	Learning	Evaluation
(Theory)		Resources	Objective (Practical)		Resources	
6.1 Define Public Health Ethics	Teacher should explain	Text Books	Students should	Teacher should	Text Books	Assignment
6.2 Explain the history of	Public Health Ethics, its	Internet	explain Public Health	Guide the Class	Internet	
Public Health Ethics	history and importance.	Public	Ethics, history and	activity by students	Public	Test
6.3 Discuss the importance and		Health	importance.		Health	
application of Public Health		Edicts			Edicts	Examination
Ethics		Constitution			Constitution	
6.4 Outline specific uniform		Court			Court	
and practical ethical		White board			White board	
conducts		Marker			Marker	

PROGRAMME: NATIONAL DIPLOMA (ND) IN PUBLIC HEALTH TECHNOLOGY								
COURSE TITLE: Global and Contemporary Health Issues								
COURSE CODE: PHT 225								
DURATION :	Lecture: - 20Hrs	Tutorial: Nil	Practical: - 10Hrs	Total: 30Hrs				
CREDIT UNITS: 2	•							
GOAL: The course is intended to provide the students with the basic knowledge and skills needed to understand the global nature of health problems and international cooperation, as well as the national and health agencies involved in health care delivery								
GENERAL OBJECT	TIVE: On completion of the co	ourse the student sh	nould be able to:					

- 1.0 Define international/global health and explain the origin as well as the importance of international health.
- 2.0 Understand local, national and international health agencies including NGOS and their functions in health care delivery.
- 3.0 Understand disease notification and notifiable diseases of international concern.
- 4.0 Understand International Health Regulation.
- 5.0 Understand Disease Certification Protocols for disease of international concern.

5.0 Understand Disease Certification Protocols for disease of international concern.							
GENERAL OBJECTIVE	C: 1.0	Define internat	ional/global health	and explain the origin	n as well as the importan	nce of international	health.
Specific Learning	Teach	ers Activities	Learning	Specific Learning	Teachers	Learning	Evaluation
Objectives (Theory)			Resources	Objective (Practical	eal) Activities	Resources	
Explain the following:	Teache	er to define	Bulletins	Students should	Guide the student	s Bulletins	Continuous
1.1 International and global	Interna	tional/global/	Charts	explain Internationa	al in arriving at a	Charts	assessment
health agencies	geogra	phic medicine.	Internet/Intranet	Health/Global	concise definition	, Internet/Intranet	Practical
1.2 Origins of international	Teache	er should explain the	Journals	Health/Geographic	origin and	Journals	Assignment
and global health		of international or	Lecture notes	Medicine and expla	ain importance of	Lecture notes	Examination
1.3 Importance of	global	health and its	Pictorials	its origin &	International	Pictorials	
international and global	import	ance to health care.	Projector	importance to health	h Health.	Projector	
health			Text book	care delivery.		Text book	
GENERAL OBJECTIVE	2: 2.0 Un	derstand local, nation	al and internation	l health agencies incl	luding NGOS and their f	unctions in health c	are delivery
Specific Learning Objecti		Teachers Activities		Specific Learning		Learning	Evaluation
(Theory)			Resources	Objective (Practi	ical) Activities	Resources	
Discuss the following:		Guide the students	Bulletins	Participate in	Guide students'	Bulletins	Continuous
2.1 Local health agencies a	nd their	in understanding the	Charts	volunteer activitie	es on conduct while	Charts	assessment
functions		agencies fully.	Internet/Intrane	et some local or	volunteering	Internet/Intranet	Practical
2.2 National health agencie	es and		Journals	international agen	ncies	Journals	Assignment
their functions - NAFD	AC,	Specify the	Lecture notes			Lecture notes	Examination
NESREA, etc.		functions of the	Pictorials			Pictorials	
2.3 International health age	encies	agencies to the	Projector			Projector	
and their functions: - W	/HO,	students	Text book			Text book	
UNICEF, DFID, PAHO), etc.						
2.4 NGOS and their function	ons						
GENERAL OBJECTIVE	E: 3.0	Understand dise	ase notification an	d notifiable diseases of	of international concern		
	achers A	Activities Lear	_	O	Teachers Activities	Learning	Evaluation
Objectives (Theory)		Reso	ources Obj	ective (Practical)		Resources	

2.1 F. 1 : D:	T 1 1 11 1 1	D 11	.: Cl .	г 1	' D'	T	1 1 11	D 11 4' C1 4	C .:
3.1 Explain Disease			etins, Charts		1		cher should	Bulletins, Charts	Continuous
Notification			net/Intranet				lain the diseases of	Internet/Intranet	assessment
		Jourr			iable diseases of		rnational concern	Journals	Practical
3.2 List notifiable			ure notes	inter	national concern		notification	Lecture notes	Assignment
diseases of	1	Picto					ocols with	Pictorials	Examination
international	•	Proje					icular examples to	Projector	
concern	Polio, Covid-19, etc	Text	book			Poli	o, Covid-19, etc.	Text book	
GENERAL OBJECT	IVE: 4.0Understand Interna	tiona	l Health Regi	ılatior	1				
Specific Learning	Teachers Activities		Learning		Specific Learnin	g	Teachers	Learning	Evaluation
Objectives (Theory)			Resources		Objective (Pract		Activities	Resources	
4.1 Explain	Teacher should explain		Bulletins		Understand		The Teacher	Bulletins	Continuous
International	International Health		Charts		International Heal			Charts	assessment
Health Regulation	Regulation and how it can b	e	Internet/Intranet		Regulation		importance of	Internet/Intranet	Practical
	used to achieve health in		Journals				International	Journals	Assignment
	populations.		Lecture notes					Lecture notes	Examination
	Relevant International Healt	th	Pictorials					Pictorials	
	Regulation articles should a	lso	so Projector					Projector	
	be explained to the students		Text book					Text book	
GENERAL OBJECTV	E 5.0 Understanding Dise	ase C	Certification F	rotoc	ols for disease of in	nterna	tional concern		•
Specific Learning	Teachers Activities	L	earning	S	pecific Learning		Teachers	Learning	Evaluation
Objectives (Theory)		R	esources	O	bjective (Practical	l)	Activities	Resources	
Explain disease	Teacher should explain the	B	ulletins	Те	eacher should expla	ain	Explain disease	Bulletins	Continuous
certification protocols	disease certification		harts	th	e disease certificati		certification	Charts	assessment
for disease of	procedure with particular	In	ternet/Intrane	et pr	ocedure with		protocols for	Internet/Intranet	Practical
international concern	reference to some of the	Journals			articular reference t		disease of	Journals	Assignment
	notifiable diseases like	Lecture notes			me of the notifiable		international	Lecture notes	Examination
	polio, cholera, yellow		ctorials		seases like polio,		concern	Pictorials	
	fever, covid-19, SARS,		rojector		nolera, yellow fever		-	Projector	
	etc.		ext book		ovid-19, SARS, etc.			Text book	

PROGRAMME: N	PROGRAMME: NATIONAL DIPLOMA (ND) PUBLIC HEALTH TECHNOLOGY									
COURSE TITLE: HEALTH ECONOMICS										
COURSE CODE:	COURSE CODE: EHT 315									
DURATION :	DURATION: Lecture: - I hr Tutorial: - Practical: - Total: 15 hrs									
CREDIT UNITS:	CREDIT UNITS: 1									

GOAL: This course is designed to enable the student apply appropriate economics principles in the planning and administrating of environmental health services in the community.

GENERAL OBJECTIVE: On completion of the course, the student should be able to:

- 1.0 Know the fundamental principles of environmental health economics.
- 2.0 Understand the basic economics concept and model in environmental health.
- 3.0 Know the concept of economic cost of health.

PROGRAMME: HIGHER NATIONAL DIPLOMA IN ENVIRONMENTAL HEALTH TECHNOLOGY

COURSE: HEALTH ECONOMIC: Course code: 315 Contact Hours: 15

COURSE SPECIFICATION: Theoretical Content: Practical Content:

GENERAL OBJECTIVE: 1.0 Know the fundamental principles of environmental health economics

GENERAL OBJECTIVE: 1.0 Ki				(D) 1	· ·	T 1 (*
Specific Learning Objectives	Teachers	Learning Resources	Specific Learning	Teachers	Learning	Evaluation
	Activities		Objectives	Activities	Resources	
1.1 Define	 Lecture 	• Lecture notes		 Locate 	 Projector 	 Assignment
i. Economics	 Discuss 	• Pictures		• Guide	• Charts	 Class Test
ii. Economic goods and	Brainstorm	• Charts		 Demonstrate 		 Presentation
services		Books				 Examination
iii. Economic wants		 Journals 				
iv. Opportunity cost		Computer				
v. Scarcity, demand and supply		Projector				
vi. Environmental health		DVD/Multimedia				
economics		Player				
1.2 Explain the following:		Tiayer				
i. National economic goals						
ii. Role of consumer in the						
capitalist economy						
iii. Role of Government in						
economic system.						
iv. Budgetary procedures						
v. National income and						
distribution						
vi. Approaches to financial						
planning.						
vii. Consumer health						
viii. Environmental health policy						
and resource allocation						

ix. Politics of health care and environmental health services.								
GENERAL OBJECTIVE: 2.0 Understa	nd the basic	c economic o	concept and mo	odel in environment	al health			
Specific Learning Objectives (Theory)	Teachers Activities	Learni	ng	Specific Learning Objectives (Practic	Tea	chers ivities	Learning Resources	Evaluation
2.1 Discuss the determinants of health.	Lecture	Lecture		<u> </u>	Loc		Projector	Assignmen
2.2 Explain the concept of private public	Discuss	Picture	s		Gui	de	Charts	Class Test
sector mix in environmental health	Brainstorn	n Charts			Der	nonstrate		Presentatio
service delivery in Nigeria and its		Books						Examination
implications for delivery and cost.		Journa	s					
2.3 Explain the basic concept of cost		Compu	ter					
benefit and cost effectiveness		Project	or					
analysis in environmental health.		DVD/N	Multimedia					
2.4 Explain the basic concept of health		Player						
insurance/social insurance.								
2.5 Explain the impact of economic								
measures/changes in								
environmental health.								
2.6 Identify the constraints of								
environmental health financing in								
the country.								
2.7 Analyse the concept of health care								
financing.								
2.8 Explain the methods of mobilizing								
communities for self-financial and								
sustainable environmental health								
projects.								
2.9 Describe the concept of demand and								
supply in environmental health								
services.								
2.11 Describe the concept of								
privatization of environmental								
health services.	4 6		4 61 141					
GENERAL OBJECTIVE: 3.0 Know th				G •0• T		D 1	Τ .	
Specific Learning Objectives		Teachers	Learning	Specific Lear	_	Teachers	Learning	Evaluation
		Activities	Resources	Objectives		Activities	Resources	

3.1 Explain the concept of opportunity cost.	Lecture	Lecture notes,	Locate	Projector	Assignment
3.2 Discuss the various determinants of health.	Discuss	Pictures, Charts,	Guide	Charts	Class Test
3.3 Explain the factors that determine the value	Brainstorm	Books, Journals,	Demonstrate		Presentation
placed on health by various persons and		Computer,			Examination
groups.		Projector, DVD/			
3.4 State the actual cost of health.		Multimedia			
		Player			

COURSE TITLE: Project
COURSE CODE: EHT 227

DURATION: Lecture: - 1.5 (20Hrs) Tutorial: 0.5 (10Hrs) Practical: - 4 (60Hrs) Total: 6 (90Hrs)

CREDIT UNITS: 6

GOAL: This project provides the student with an opportunity to investigate and report on a specific aspect of Public Health Programme and Projects.

GENERAL OBJECTIVE: On completion of the course, the student should be able to:

- 1.0 Review current literature pertaining to a specific issue or problem
- 2.0 Assess the extent of the issue or problem in Public Health practice
- 3.0 Gather and analyse information to identify potential solutions and reach a conclusion

4.0 Produce a final report on the project

General Objective: 1.0 Review current literature pertaining to a specific issue or problem

Specific Learning	Teachers	Learning Resources		Specific Learning Objective Tea		achers Activities	Learning	Evaluation	
Objective (Theory)	Activities			(Practical)				Resources	
1.1 Choose under	Guide	Bulletins		Students should select a		Sup	port students in	Bulletins	Continuous
guidance, an	students in	Charts		suita	ble topic and produce a	plai	nning their	Charts	assessment
appropriate topic for	selecting a	Internet/Intranet		plan	of action setting out key	acti	vities	Internet/Intranet	Practical
investigation.	suitable	Journals		targe	ts to meet over the	Sup	port students in	Journals	Assignment
	topic.	Lecture notes		seme	ester	thei	ir research.	Lecture notes	Examination
1.2 Review current	Provide	Pictorials				Pro	vide guidance in	Pictorials	
literature to relevant to	guidance in	Projector		Review current literature to		finc	ling appropriate	Projector	
choice of topic.	finding	Text book		relevant to choice of topic		sou	rces	Text book	
•	sources				•				
General Objective: 2.0	Assess the exter	nt of the issue or pro	oblem in l	Public	c Health practice				
2.1. Investigate the	Support	Bulletins	Students	S	Guide students in		Bulletins	Continuous asses	sment
issue or problem in	students in	Charts	should		determining the most		Charts	Practical	
Public Health practice	their	Internet/Intranet	et/Intranet identify		appropriate data collectio	n	Internet/Intranet	Assignment	
	investigation	Journals	required	1	strategy for the specific	Journals		Examination	
		Lecture notes	informa	22			Lecture notes		

General Objective: 3.0	Gather and a	Pictorials Projector Text book	and appropriate methods of data collection to identify pote	ential solutions and reach a cor	Pictorials Projector Text book	
3.1. Collect information according to agreed methods.	Support students in data collection	Textbooks Notes Data tools	Analyse the data collected in order to reach a conclusion	Supervise students in data analysis	Textbooks Notes Data sheets Statistical packages	Project Defence
General Objective: 4.0	Produce a fin	nal report on the pro	oject			
4.1. Produce final written report on project	Guide students in the production of their written report	Internet Notes Textbooks Journals	Students should produce a final report on their project	Guide students in the production of their written report	Internet Notes Textbooks	Project Defence

LIST OF MINIMUM RESOURCES FOR NATIONAL DIPLOMA IN PUBLIC HEALTH

A. LIST OF PHYSICAL FACILITIES

Programme	Laboratory	Studio/Drawing Room and Other
National Diploma (ND) in	Basic Science (Biology	1. Audio Visual Studio
Public Health Technology	and Chemistry)	2. Museum
		3. Side laboratory with a minimum of
		disease detection and screening
		equipment based on their
		objectives of the training

LIST OF EQUIPMENT IN AUDIO VISUAL STUDIO

S/NO	EQUIPMENT	QUANTITY REQUIRED
1	Video Recorder	1
2	Overhead projector	1
3	Film projector	1
4	Public Address System	1
5	Television set	1
6	Camera	1
7	Computer System	5
8	DVD players	1
9	Microphones	5
10	Scanner	1

B. HUMAN RESOURCES

Lecturers/Instructors Minimum Qualification

1. LECTURER (FIRST DEGREE)

(This is for Licensed Environmental Health Officer)

- a. Bachelor of Science/Technology (B.Sc/ B. Tech) in Public Health
- b. Bachelor of Environmental Health Science (B. EHS)/Bachelor of Science (B.Sc) Environmental Health
- c. Bachelor of Science (B.Sc) Health Education
- d. Bachelor of Science (B.Sc) Occupational Health
- e. Bachelor of Science (B.Sc) Environmental Management

LECTURER (PGD)

(This is for Licensed Environmental Health Officer with Higher National Diploma (HND) in Environmental Health)

- a. Post Graduate Diploma (PGD) Public Health
- b. Post Graduate Diploma (PGD) Environmental Health
- c. Post Graduate Diploma (PGD) in Education
- d. Post Graduate Diploma (PGD) Public Health/Epidemiology
- e. Post Graduate Diploma (PGD) Environmental Management

3. SENIOR LECTURER

(This is for Licensed Environmental Health Officer with either the Qualification in 1 or 2 above)

- a. Master of Science (M.Sc) in Public Health plusMphil qualification
- b. Master of Science (M.Sc) in Environmental Health

Technical Staff Minimum Qualification for Laboratory/Workshop/Studio/Museum

- Technologist HND or equivalent in Public Health Technology
- Technologist HND or equivalent in Epidemiology and Disease Control
- Technologist HND or equivalent in Environmental Health Technology
- Technician ND in Epidemiology and Disease Control
- Technician ND in Public Health Technology
- Technician ND in Environmental Health Technology
- Laboratory Assistant At least SSCE

For National Diploma

4 no. Core Lecturers as follows:

1 no. Senior Lecturer and above

1 no. Lecturer II

1 no. Lecturer III/Assistant Lecturer

LIST OF CONTRIBUTORS

S/NO	NAME	ADDRESS	DESIGNATION	E-MAIL/TELEPHONE
1	Dr. Yakubu Baba Mohammed	EHORECON	REGISTRAR	mohammedbaba37@yahoo.com
2	Prof. Agwu N. Amadi	FUTO		professoramadi@gmail.com
3	Prof. E. Ofoezie Emmanuel	OAU Ife		emmaofoezie@gmail.com
4	Prof. G.R.E.E. Ana	U. I		agree2000@yahoo.com
5	Prof. Henry Sawyer	KWASU		hsawyerr@gmail.com
6	Prof. Ado Bello	TCHT Kano		adobello2@yahoo.com
7	Prof. Shehu Adaranja	UNILORIN		+2348035778798
8	Dr. M.C. Nwachukwu	NAU		mnwachukwu4691@gmail.com
9	Dr. Oladinjoye Abiodun			
10	Dr. Hamisu Maimusa	CHST, Nguru		+2348063386561
11	Dr. Toma Reng	CHST, Zawan		+2348036177931
12	Dr. Seni Barka	CHST, Kaltungo		mennabarka@gmail.com
13	Dr. A.N. Arinola	Suweraj Asso. Ibadan		adebayoarinola03@gmail.com
14	Dr. S. A. Akingbehin	LSPHCB, Yaba		sam.akin_akingbehin@yahoo.co
15	Dr. Bashir Bala Getso	School of Hygiene, Kano	Principal	66getso744@gmail.com
16	Mustapha Yunusa	School of Hygiene, Kano	HOD Public Health	myunusa1@yahoo.com
17	Bala Usman	CHST, Funtua		+2348036848221
18	Yusuf Bello Yakubu	NBTE		+2348036527689
19	Barr. Emmanuel Eyo	CHST, Calabar		+2348050730624
20	Zachariyan Aliyu	PHCDA, Niger State		+2348035880490
21	Isah Adamu	EHORECON		ardoisahadamu@gmail.com
22	Omonayajo Nathaniel	EHORECON	HOD EDTR	nathomonayajo@yahoo.com
23	Celestine O.Onah	EHORECON	Division Head Inst.	celeonah@yahoo.com
24	Jamabo Rosemary	EHORECON	ACEHO	osaki4life12@yahoo.com
25	Alum Viola O.	EHORECON	ACEHO	alumviola@gmail.com
26	IvuomaUchechiOnwubiko	EHORECON	SEHO	ihuomaonwubiko@gmail.com
27	Kucheli Augustine Ebisike	EHORECON	SEHO	kuchelitarfa@gmail.com
28	Charity Abbas	EHORECON	НЕНО	charity@yahoo.com
29	OhagiChiaka	EHORECON	ЕНО	ellaohagi@ymail.com