

NATIONAL BOARD FOR TECHNICAL EDUCATION

PLOT 'B' BIDA ROAD, P. M. B.2239, KADUNA



CURRICULUM AND COURSE SPECIFICATION

FOR

NATIONAL DIPLOMA (ND)

IN

DENTAL SURGERY TECHNOLOGY (DST)

JANUARY 2022.

1.0 INFORMATION ON ND IN DENTAL SURGERY TECHNOLOGY PROGRAMME.

TITLE OF THE PROGRAMME: The title of the programme is **National Diploma Dental Surgery Technology**

2.0 Goal and Objectives of the Programme

Goal: The National Diploma (ND) programme is designed to produce Dental Health Personnel who will be capable of assisting in the use of dental resources to provide oral health care to patients in pre and postoperative care clinic.

OBJECTIVES

At the end of the programme, the student should be able to:

- 1.0 Communicate effectively.
- 2.0 Keep patient records under supervision.
- 3.0 Assist in giving Pre, Intra, and Post- operative dental care.
- 4.0 Use Dental instrument/materials in endodontic, prosthetic, conservative, surgical and orthodontic procedures.
- 5.0 Assist the Dental Surgeon in all oral, clinical procedures and infection control.
- 6.0 Use the basic principle of First Aid in emergency cases in dental care.
- 7.0 Give oral health education and counseling in dental care.
- 8.0 Manage enterprise.

3.0 ENTRY REQUIREMENTS

The general entry requirements for the ND in **Dental Surgery Technology** are: (a) all the requirements for admission into the ND programme in **Dental Surgery Technology must at least have five (5) credit in** WASC, SSCE, NECO or its equivalent including English Language, Mathematics, Biology or Health Science, Chemistry or Physics (any of the science subjects at not more than two (2) sittings are to undergo the three years programme. Candidates who wish to enter for full time training must be at least 17 years of age and have a natural attitude for this type of work. All matured students must satisfy the normal entry requirement i.e. By direct entry of a candidate possessing the

following equivalent qualification. Five credits in WASC, SSCE, NECO or its equivalent including English Language, Mathematics, Biology or Health Science, Chemistry or Physics (any of the science subjects at not more than two (2) sittings are to undergo the three years programme. All qualified Dental Surgery Assistants (DSA) are to undergo a-year upgrading course organized by the Education and Training Advisory Board.

4.0 STAFFING REQUIREMENT

4.1 Headship of the Department: The HOD should be a Principal or Chief Dental Therapist/Dental Surgery Technologist who is qualified in discipline/field of study and have post qualification cognate experience in industrial, teaching and educational management, so that he/she can co-ordinate and manage the students (dental health technicians') affairs and also to handle the practical aspect of the training which will guarantee the education and training advisory board that the department is being efficient and effectively coordinated

4.2 Core Teaching Staff

At the point of mounting the programme, there should be a minimum of four Lecturers who should spread from Lecturer II and above with first/second degrees in **Dental Surgery Technology**.

4.3 Technical Staff

These are technically qualified staff not involved in direct lecturing/instructing, but who provide vital and indispensable services in all facilities used in the implementation of the programme.

4.4 Career Progression

HND or BSc. in Dental Surgery Technology

5.0 CAREER AND ACADEMIC PROSPECTS

They can work in the following establishments/organizations

- Primary Health Care (PHCs)
- Clinic
- Hospital
- Teaching
- Industries,
- Military/Para-military
- NGO's

6.0 DURATION

The duration of the programme is two academic sessions consisting of four semesters of 17 weeks each.

9.0 One (1) year training in basic science.

10.0 One (1) year training in dental science

11.0 One (1) year training in dental and medical emergencies

12.0 a. six months practical attachment in Government Dental Centre and Teaching Hospital

b. One-month practical in theatre, assisting in teachings hospitals Government centres.

c. Four months for revisions, seminar presentation, project defense and final examination.

7.0 CURRICULUM

7.1 The curriculum of the programme consists of four main components. These are:

General Studies

Foundation Courses

Core Courses

Project.

7.2 The General Education component shall include courses in:

English Language, Entrepreneurship and Citizenship Education. The General Education component shall account for not more than 10-15% of the total contact hours for the programme.

Foundation courses include courses in Economics and Computer Science. The number of hours for the courses may account for about 10-15% of the total contact hours.

Professional courses are core courses of the programme that give the student the theory and professional skills he/she needs to practice his/her field of calling at the Technologist level. These may account for between 60-70% of the contact hours.

8.0 CURRICULUM STRUCTURE

The structure of the programme consists of six semesters of classroom, and workshop activities in the institution. Each semester shall be of 17 weeks duration made up as follows:

a. 15 weeks of teaching, i.e. instruction, practical exercise, quizzes, test, etc; and

b. 2 weeks for examinations and registration.

8.1 ASSESSMENT CRITERIA:

9.0 ACCREDITATION

The National Board for Technical Education in conjunction with Dental Therapists' Registration Board of Nigeria shall accredit the programme before the diplomates can be awarded the National Diploma certificates. Details about the process of accrediting a programme for the award of the National Diploma are available from the office of the Executive Secretary, National Board for Technical Education, Plot "B", Bida Road, P.M.B. 2239, Kaduna, Nigeria.

10.0 AWARD OF NATIONAL DIPLOMA

10.1 Conditions for the award of National Diploma include the following:

a. satisfactory performance in all prescribed course work, which may include class work, tests, quizzes.

b. Workshop practice, laboratory work and fieldwork.

c. Satisfactory performance at all semester examinations.

d. Satisfactory completion of final year project work.

Normally, for all courses including final year project work, continuous assessment contributes 40%, while semester examinations and project reports are weighted 60% to make a total of 100%. For Seminar presentation, Continuous assessment contributes 30%, while Seminar reports are weighted 70% to make a total of 100%.

10.2 National Diploma shall be awarded in four classes:

Distinction	-	CGPA of 3.50 and above
Upper Credit	-	CGPA of 3.0 - 3.49
Lower Credit	-	CGPA of 2.50 - 2.99
Pass	-	CGPA of 2.00 - 2.49

10.3 Grading of Courses: Courses shall be graded as follows:

MARKED RANGE		LETTER GRADE		WEIGHTING	
		GRADE			
	75% and above		A		4.00
	70% – 74%		AB		3.50
	65% – 69%		B		3.25
	60% – 64%		BC		3.00
	55% – 59%		C		2.75
	50% – 54%		CD		2.50
	45% – 49%		D		2.25
	40% – 44%		E		2.00
	Below 40%		F		0.0

11.0 GUIDANCE NOTES FOR TEACHERS

- 11.1** The new curriculum is drawn in unit courses. This is in keeping with the provisions of the National Policy on Education which stress the need to introduce the semester credit units which will enable a student who so wishes to transfer the units already completed in an institution of similar standard from which he/she is transferring.
- 11.2** In designing the units, the principle of the modular system by product has been adopted, and each of the professional modules, when completed provides the student with technologist operative skills, which can be used for employment purposes or self-reliance.
- 11.3** As the success of the credit unit system depends on the articulation of the programme between the institutions and industry, the curriculum content has been written in behavioral objectives, so that it is clear to all the expected performance of the student who successfully completed some of the courses or the diplomats of the programme. This is slight departure in the presentation of the performance based curriculum which requires the conditions under which the performance is expected to be carried out and the criteria for the acceptable levels of performance. It is a deliberate attempt to further involve the staff of the department teaching the programme to write their own curriculum stating the conditions existing in their institution under which performance can take place and to follow that with the criteria for determining an acceptance level of performance.

The Academic Board of the institution may vet departmental submission on the final curriculum. Our aim is to continue to see to it that a solid internal evaluation system exists in each institution for ensuring minimum standard and quality of education in the programmes offered throughout the Polytechnic system.

- 11.4** The teaching of the theory and practical work should, as much as possible, be integrated. Practical exercises, especially those in professional courses and laboratory work should not be taught in isolation from the theory. For each course, there should be a balance of theory to practical in the ratio of 50:50 or 60:40 or the reverse.

11.5 ASSESSMENT: Coursework/Assignment 50% [Practical 40% and Report 10%]

	Classwork /practical &Laboratory Works	Semester Examinations	Total
Theory	60	60	60
Practical	40	40	40
Total			100

12.0 PRACTICAL LOGBOOK

A personal Logbook to be kept by each student shall contain all the day-to-day, weekly summary, and semester summary of all the practical activities from day one to the end of the programme. This is to be checked, marked, endorsed and recorded by the lecturers/technologists concerned at the end of every week.

13.0 FINAL YEAR PROJECT

Final year students in this programme are expected to carry out a project work. This could be on individual basis or group work of not more than two students per group, but reporting must be undertaken individually. The project should, as much as possible incorporate basic elements of design, drawing and complete fabrication of a marketable item or something that can be put to use. Project reports should be well presented and should be properly supervised. The departments should make their own arrangement of schedules for project work.

14.0 CONDITION FOR THE AWARD OF THE ND

The ND programme in **Dental Surgery Technology** shall be accredited by the NBTE before the diplomats are awarded the diploma certificate. Details about the process of accrediting a programme for the award of the National Diploma or National Diploma are available from the office of:

The Executive Secretary,

National Board for Technical Education (NBTE),

Plot B, Bida Road, P.M.B. 2239,

Kaduna, Nigeria.

15.0 CERTIFICATION AND LICENCING

Upon successful completion of the requirements of the programme, the students shall be indexed by the Dental Therapists Registration Board of Nigeria and the School will award them ND Certificate while the Board issues professional certificate on completion of Dental Surgery Technician Programme. However, diplomates should note that licence will only be issued at the end HND.

CURRICULUM TABLES

NATIONAL DIPLOMA IN DENTAL SURGERY TECHNOLOGY

FIRST SEMESTER ND - 1 (YEAR ONE)

S/N	COURSE CODE	COURSE TITLE	L	P	CU	CH	TOTAL HOURS/SEMESTER
1.	DST 111	Foundation of Dental Surgery Technology 1	2	1	3	3	45
2.	DST 112	Human Biology & Embryology	2	1	3	3	45
3.	DST 113	Applied Physics	1	1	2	2	30
4.	DST 114	Chemistry	1	1	2	2	30
4.	DST 115	Medical Sociology	2	-	2	2	30
6.	DST 116	Oral Health Science 1 [Not Developed]	2	-	2	2	30
6.	DST 117	Oral Anatomy & Oral Physiology	2	1	3	3	45
7.	DST 118	Dental Instrumentation I	2	1	3	3	45
8.	GNS 101	Use of English	2	-	2	2	30
9.	GNS 111	Citizenship Education	2	-	2	2	30
10.	COM 101	Introduction to Computer	2	1	3	3	45
TOTAL			20	7	27	27	405

SECOND SEMESTER ND – 1 (YEAR ONE)

S/N	COURSE CODE	COURSE TITLE	L	P	CU	CH	TOTAL HOURS/SEMESTER
1	DST 121	Human Biology II	2	1	3	3	45
2	DST 122	Foundation of DST II	2	1	3	3	45
3	DST123	Nutrition & Health	2	-	2	2	30
4	DST 124	Introduction to Pharmacology	2	-	2	2	30
5	GNS 125	Behavioral Science II	2	-	2	2	30
6	DST 126	General Pathology	2	1	2	3	30
7	DST 127	Dental Instrumentation II	2	1	3	3	45
8	STM 115	Introduction to Microbiology	2	1	3	3	45
9	DST 128	Dental Health Care Practice I	2	2	4	4	60
10.	GNS 102	Communication in English I	2	-	2	2	30
	TOTAL		20	6	25	25	390

FIRST SEMESTER ND – 2 (YEAR TWO)

S/N	COURSE CODE	COURSE TITLE	L	P	CU	CH	TOTAL HOURS/SEMESTER
1	DST 211	Pharmacology II	1	1	2	2	30
2	DST 212	Radiography I	2	1	2	3	45
3	DST 213	Primary Health Care (PHC)	2	1	3	3	45
4	DST 214	Dental Instrumentation III	1	2	3	3	45
5	DST 215	Sterilization and Infection Control	1	1	2	2	30
6	GNS 213	Introduction to Psychology	2	-	2	2	30
7	DST 216	Oral Health Education	2	1	3	3	45
8	DST 227	Research Methods	2	-	2	2	20
9	DST 228	Oral and Maxillofacial Surgery	2	1	3	3	45
10	GNS 202	Communication in English II	2	-	2	2	30
11.	EED 216	Entrepreneurship Studies	2	-	2	2	30
TOTAL			19	9	28	28	405

SECOND SEMESTER ND - 2 (YEAR TWO)

S/N	COURSE CODE	COURSE TITLE	L	P	CU	CH	TOTAL HOURS/SEMESTER
1	DST 221	First Aid and Dental Emergencies	2	1	3	3	45
2.	DST 222	Dental Materials & Bioscience I	2	2	4	4	60
3.	DST 223	Pre and Post Operative Dental Care[Not Developed	2	1	3	3	45
4.	DST 224	Radiography II	2	1	3	3	45
5.	DST 225	Clinical Diseases & Diet Therapy I	2	-	2	2	30
6.	DST 226	Oral Healthcare & Patient Records	2	1	3	3	45
7.	DST 227	Project	2	1	3	3	45
9	DST 228	Restorative Dentistry I	2	1	3	3	45
9.	DST 229	Oral Pathology & Oral Medicine	2	1	3	3	45
	TOTAL		18	8	26	26	405

Programme: National Diploma in PROGRAMME: NATIONAL DIPLOMA IN DENTAL SURGERY TECHNOLOGY.

Course Title: FOUNDATIONS OF DENTAL SURGERY

Code: DST 111

Credit Hour: 45 Hrs.

TECHNOLOGY 1		Credit Unit: 3
	Pre-requisite:	Theoretical: hours/week
Year: One Semester: First		Practical : hours/week

Course main Goal: This course is designed to produce personnel with basic knowledge and skills of the dental profession.

General Objectives:

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

- 1.0 Trace the History, Trends and Ethics of Dental Surgery Technology.
- 2.0 Recognize the Rules and Ethics of Dental Professions;
- 3.0 Recognize Health care institutions and personnel in National Health and Social Services.
- 4.0 Comprehend the principles of Dental Surgery Technology in dentistry.
- 5.0 Recognize the structure of Primary, Secondary and Tertiary Facilities in dentistry;
- 6.0 Outline theories and models relevant to dentistry.

Programme: National Diploma in PROGRAMME: NATIONAL DIPLOMA IN DENTAL SURGERY TECHNOLOGY

Course Title: FOUNDATIONS OF DENTAL SURGERY TECHNOLOGY 1			Code: DST 111		CH:3 CU:3	
General Objective 1.0 : Trace the History and Trends of Dental Surgery Technology						
Week	Specific Learning Outcomes	Teacher’s Activities	Resources	Specific Learning Outcomes	Teacher’s Activities	Evaluation
1-2	1.1. Trace the History and Trends of DST	Narrate the History and Trends of DST	Internet, Video clips Model, charts, audio-visuals aids	To Trace the History and Trends of DST.	Guide Students to Trace the History and Trends of DST.	Trace the History and Trends of DST
	1.2 Define Primary Healthcare and Dentistry.	Explain the Primary Healthcare and Dentistry.				
	1.3 Define DST					
	1.4 List roles of a DST	Explain the roles of a DST and the Concepts of Dental Healthcare.				
	1.5 Explain the Concepts of Dental Healthcare.	Explain the Professional Organizations that deals with Dental				
	1.6 State the Professional	Health care and the				

	<p>Organizations in Dentistry (Dental Team such as Dental Surgeon, Dental Therapists, Dental Technologist, Dental Surgery Technologist).</p> <p>1.7 List the Characteristics of a Polyvalent in DST</p>	Characteristics of a Polyvalent in DST				
General Objectives 2.0 Recognize the Rules and Ethics of Dental Professions.						
	<p>2.1 Explain the Rules that govern the Dental Profession</p> <p>2.2 Enumerate the ethics of Dental professions</p> <p>2.3 Explain the Function of personnel in Healthcare and Social Services.</p>	Explain the Rules that govern the Dental profession	<p>Internets, Video clips Model, charts, audio-visuals aids</p>			Explain the Rules that govern the Dental Profession
General Objective 3.0 Recognize Health care institutions and personnel in National Health and Social Services.						
	<p>3.1 Describe community and Health Institutions.</p> <p>3.2 Explain social services in relations to Health care.</p> <p>3.3 List types of personnel in</p>	Discuss community and Health Institutions and social services in relations to Health care.	<p>Internets, Video clips Model, charts, audio-visuals aids</p>	<p>Identify community Health Institutions and of the personnel in Heath care.</p> <p>Visit Health care institution</p>	<p>Guide students to Identify community Health Institutions and of the personnel in Heath care.</p>	Explain Structures of Primary, Secondary and Tertiary Health Facilities and Social Services

	<p>Health care</p> <p>3.4 Explain the duties of personnel in 3.3 above</p> <p>3.5 Explains Reception, Admission, Referral and Discharge follow up procedures in health care.</p>	<p>Explain types of personnel in Health care and the duties of personnel.</p>		<p>to observe activities such as: Reception, Admission, referral and discharge follow up procedures.</p>	<p>Visit Health care institution to observe activities such as: Reception, Admission, referral and discharge follow up procedures.</p>	
General Objectives 4.0 Comprehend the principles of Dental Instrument Technician in dentistry						
	<p>4.1. Define dentistry</p> <p>4.2. Define DST in dentistry.</p> <p>4.3 Enumerate the role of DST in dentistry.</p> <p>4.4 Differentiate between DST and Dental surgeon.</p> <p>4.5 List types of dental</p>	<p>Explain dentistry</p> <p>Explain the role of DST in dentistry.</p> <p>Explain Differences between DST and Dental surgeon.</p> <p>Discuss types of dental surgeries.</p>	<p>Internets, Video clips Model, charts, audio-visuals aids</p>			<p>Explain the role of DST in dentistry.</p>

	surgeries.					
General Objectives 5.0 Recognize the structure of Primary, Secondary and Tertiary Facilities in dentistry						
	5.1 Describe Structures of Primary, Secondary and Tertiary Facilities. 5.2 Explain duties of the DST in Primary, Secondary and Tertiary.	Explains Reception, Admission, referral and discharge follow up procedures in health care and Structures of Primary, Secondary and Tertiary Facilities.	Internets, Video clips Model, charts, audio-visuals aids	Visit Primary, Secondary and Tertiary Health care Facilities to identify procedures.	Guide students in a visit to Primary, Secondary and Tertiary Health care Facilities to identify	Describe the Structures of Primary, Secondary and Tertiary Facilities.
General objective 6.0 Outline theories and models relevant to dentistry.						

	6.1 Define theories related to dentistry 6.2 Paraphrase on hydrodynamic or fluid movement theory. 6.3 Explain the 3 theories of Dentin sensitivities.	Explain the theories related to dentistry.	Internets, Video clips Model, charts, audio-visuals aids			Explain the 3 theories of Dentin sensitivities.
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Programme: National Diploma in			PROGRAMME: NATIONAL DIPLOMA IN DENTAL SURGERY TECHNOLOGY		
Course Title:	HUMAN BIOLOGY & EMBROLOGY	Code: DST 112			Credit Hour: 45 Hrs CreDST Unit: 3

	Pre-requisite:	Theoretical: hours/week
Year: One Semester: First		Practical : hours/week

Course main Goal: this course is designed to acquaint students with anatomical and physiological terms in human body.

General Objectives:

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

- 1.0 Appreciate the anatomical and physiological terms used in describing the human body.
- 2.0 Recognize the basic structures, system, relations, general anatomical characteristics and functions of the human body.
- 3.0 Recognize the normal physiological variations and adaptations of the human body in relation to the environment.
- 4.0 Use the knowledge of Human Biology in recognizing deviation from normal so as to assist in the management of patient.

Programme: National Diploma in PROGRAMME: NATIONAL DIPLOMA IN DENTAL SURGERY TECHNOLOGY		
Course Title: Human Biology & Embryology	Code: DST 112	CH:2 CU:3
General Objective 1.0 : Appreciate the anatomical and physiological terms used in describing the human body.		

Week	Specific Learning Outcomes	Teacher's Activities	Resources	Specific Learning Outcomes	Teacher's Activities	Evaluation
1-2	<p>1.1 Define anatomy and physiology</p> <p>1.2 Relate 1.1 to Human Body</p> <p>1.3 Explain the structural organization of the human body</p> <p>1.4 Explain the common terms in Anatomical and physiological regions and positions of human body.</p>	<p>Explain anatomy and physiology of human body</p> <p>Explain the structural organization of the human body</p> <p>And common terms used.</p>	Models, charts, Video clips, Internets.	Identify different anatomical and physiological structures of human body.	Guide students in the identification of the different anatomical and physiological structures of human body.	Explain the different anatomical and physiological structures of human body.
General Objectives 2.0 Recognize the basic structures, system, relations, general anatomical characteristics and functions of the human body						
	<p>2.1 Define the structures of human body.</p> <p>2.2 Define systems of human body</p> <p>2.3 Explain the functions of the systems listed in 1.2 above</p> <p>2.4 List organs responsible for Digestion in the Digestive System in human and Respiration in the</p>	<p>Explain the structures of human body and the functions of the systems.</p> <p>Explain organs responsible for Digestion and Respiration in the Digestive and Respiratory System in human.</p> <p>Explain the cardiovascular system in human.</p>	Models, charts, Video clips, Internets	Identify different systems of human body.	Guide students to identify different systems of human body.	Explain systems and organs responsible for digestion and respiration in human body.

	<p>Respiratory Systems.</p> <p>2.5 Explain the relationships between the different organs responsible for digestion.</p> <p>2.6 define cardiovascular system in human</p> <p>2.7 Define Metabolism, Catabolism and Anabolism.</p> <p>2.8 List the classes of food</p> <p style="padding-left: 40px;">-Carbohydrate Lipid and Protein – Others are</p> <p style="padding-left: 40px;">- Minerals</p> <p style="padding-left: 40px;">- Vitamins and Water.</p> <p>2.9 Explain the metabolism of the different classes of food.</p>	<p>Explain the relationships between the different organs responsible for digestion and respiration.</p> <p>Explain Metabolism</p> <p>Catabolism and Anabolism.</p> <p>Explain the classes and metabolism of food</p> <p style="padding-left: 40px;">-Carbohydrate Lipid and Protein – Others are</p> <p style="padding-left: 40px;">- Minerals</p> <p style="padding-left: 40px;">- Vitamins and Water.</p>				
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Objectives 3.0 Recognize the normal physiological variations and adaptations of the human body in relation to the environment						
	<p>3.1 Explain the Skeletal tissues in human.</p> <p>3.2 Explain the structure and function of skeletal tissues.</p> <p>3.2 Explain the Muscular System</p> <p>3.3 Describe the types, characteristics and functions of the muscular system.</p> <p>3.4 Relate human body to the adaptation of immediate environment.</p>	<p>Explain the Skeletal tissues, the structure and function in human.</p> <p>Explain the Muscular System, types, characteristics and functions.</p> <p>Explain the Relationship of human body to the adaptation of immediate environment.</p>	Models, charts, Video clips, Internets	<p>Identify the Skeletal structural tissues in human.</p> <p>Identify the types of Muscles in human.</p> <p>Demonstrate the adaptation of human body to its immediate environment.</p>	<p>Guide students to Identify the Skeletal structural tissues in human.</p> <p>Identify the types of Muscles in human.</p> <p>Demonstrate the adaptation of human body to its immediate environment.</p>	Explain the types, characteristics and functions of the Skeletal and muscular system.
Objective 4.0. Use the knowledge of Human Body Variation in the management of patient.						
	<p>4.1 Define variation in human body</p> <p>4.2 Explain the integumentary system.</p>	<p>Explain the variation in human body</p> <p>Explain the integumentary system and Circulatory</p>	Models, charts, Video clips, Internets	<p>Differentiate by illustration, the Integumentary system and</p>	Take students through a laboratory proceedings to:	Explain the variation in human body, the

	<p>4.3 Define Circulatory system.</p> <p>4.4 Define Vein, artery and capillary.</p> <p>4.5 Explain Blood composition, functions and types.</p> <p>4.6 Explain Genotype in variation of human body.</p>	<p>system.</p> <p>Describe Vein, artery and capillary, Blood composition, functions and types and Genotype in variation of human body.</p>		<p>Circulatory system.</p> <p>Illustrate the differences between Vein, artery and capillary.</p> <p>Carry out Blood test to determine the composition of blood.</p>	<p>Differentiate the Integumentary system and Circulatory system, differences between Vein, artery and capillary and blood test to determine the composition of blood.</p>	<p>intergumentary system and Circulatory system.</p> <p>Differentiate between Vein, artery and capillary,</p> <p>Explain Blood composition, functions and types.</p>
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PROGRAMME: NATIONAL DIPLOMA IN DENTAL SURGERY TECHNOLOGY				
COURSE TITLE: APPLIED PHYSICS.				
COURSE CODE: DST 113				
DURATION: (Hours/Week)	Lecture:1hrs	Tutorial: -	Practical:1 hr	Total Contact Hours: 2 (30 hrs.)
CREDST UNIT: 2				
GOAL: This course is designed to provide students with basic knowledge of physics applicable to DENTAL SURGERY TECHNOLOGY (DST).				
GENERAL OBJECTIVES: On completion of this course, the student should be able to: 1.0 Comprehend the concepts and principles of physics and their applications to DST . 2.0 Comprehend molecular phenomena and their applications to DST . 3.0 Comprehend specific principles of heat energy in health care interventions 4.0 Comprehend the nature of radioactivity in relation to health care, communication and power generation. 5.0 Comprehend principles of optics and light waves in application to health care 6. 0 Recognize the various measurements and units relevant to DST practice 7.0 Comprehend the concepts and principles of elasticity and their application to DST practice 8.0 Recognize basic machines used in healthcare practice 9.0 Recognize the principles of force(s) and their applications to DST practice				

Course Title: APPLIED PHYSICS			Code: 113		CH:2 CU:2	
General Objective 1.0 :						
Week	Specific Learning Outcomes (Theory)	Teacher’s Activities	Resources	Specific Learning Outcomes (Practical)	Teacher’s Activities	Evaluation
1-2	Define the following terms - Science - Physics Explain branches of science and their relevance to DST practice Relate the branches of physics and their relevance to DST practice.	Explain branches of science in general and physics and their relevance to DST practice.	<ul style="list-style-type: none">• Text books• White board / Markers• Charts• Multimedia projector/ Laptops			Explain branches of science in general and physics and their relevance to DST practice.
General Objectives 2.0 Understand molecular phenomena and their applications to DST						
	2.1 Define the following: - Atom - Molecule - Matter	Explain -Atom -Molecule and Matter	<ul style="list-style-type: none">• Chart,• Films• White board/ Markers• Multimedia projector/	Demonstrate the application of the following to DST practice: -Surface tension	2.1 Define the following: - Atom - Molecule - Matter	Define -Atom -Molecule and Matter

	<p>2.2 State common examples of molecular phenomenon</p> <p>Describe the states of matter</p> <p>Explain the concept of the following:</p> <ul style="list-style-type: none"> - Surface tension - Osmosis - Capillarity - Active Transport - Diffusion 		<p>Laptops</p> <ul style="list-style-type: none"> • Beaker (glass) • Water and soap • Mercury <p>Capillary tube</p>	<p>-Osmosis Active transport</p> <p>-Capillarity Diffusion</p>	<p>2.2 State common examples of molecular phenomenon</p> <p>Describe the states of matter</p> <p>Explain the concept of the following:</p> <ul style="list-style-type: none"> - Surface tension - Osmosis - Capillarity - Active Transport - Diffusion 	
Objective 3.0 Understand specific principles of heat energy in health care interventions.						
	<p>3.1 Define heat and energy</p>	<p>Define heat energy and temperature</p> <p>Explain the methods of providing heat for the body</p>	<ul style="list-style-type: none"> • Thermometer • Charts • Films • Books • White board / 	<p>Demonstrate the various methods in providing heat for the body</p>	<p>Assist students to measure the temperature of human body, fluid, air</p>	<p>Define heat energy and temperature</p> <p>Explain the methods of providing heat for</p>

	3.2 Define Temperature		Markers			the body
	3.3 Enumerate the sources of Heat Energy	Describe types of thermometer and their uses Explain heat conversion		Demonstrate measurement of temperature in Human body, fluid, temperature and Air		Describe types of thermometer and their uses Explain heat conversion
	3.3 Explain the various methods of providing heat for the body	Explain calorie values of the <ul style="list-style-type: none"> - Adult food - Baby food Explain the Vegetarian diet.				Explain calorie values of the <ul style="list-style-type: none"> - Adult food - Baby food Explain the Vegetarian diet.
	3.5 List types of thermometer and their uses					
	3.6 Describe heat conversion					
	3.7 Define calories					

	<p>3.8 State the caloric values of the following:</p> <ul style="list-style-type: none"> - Adult food - Baby food - Vegetarian diet. 					
General Objectives 4.0 Understand the nature of radioactivity in relation to health care, communication and power generation.						
	<p>4.1 Define the following terms:</p> <ul style="list-style-type: none"> - Electricity - Magnetism <p>4.2 Explain the basic principles of the following:</p> <ul style="list-style-type: none"> - Electricity - Magnetism <p>4.3 State the</p>	<p>Explain:</p> <ul style="list-style-type: none"> - Electricity - Magnetism <p>- the basic principles of the:</p> <ul style="list-style-type: none"> - Electricity - Magnetism <p>4.3 State the properties of magnet</p> <p>4.4 Explain</p>	<ul style="list-style-type: none"> • Charts • Films • Text Books • White board/ Marker • Multimedia projector/ Screen • Magnetic metals • Non- magnetic substances • MRI • Ultrasound 	<p>Demonstrate magnetism and its application to Health and the radiological</p> <p>Instruments as follows:</p> <ul style="list-style-type: none"> - Computed Tomography (CT) Scan - Ultrasound - Magnetic Resonance Imaging (MRI) 	<p>Guide students to Demonstrate magnetism and its application to Health and the radiological</p> <p>Instruments as follows:</p> <ul style="list-style-type: none"> - Computed Tomography (CT) Scan - Ultrasound <p>Magnetic Resonance</p>	<p>Explain the basic principles of</p> <ul style="list-style-type: none"> - Electricity - Magnetism <p>-properties of magnet and Electromagnetism.</p>

	properties of magnet	Electromagnetism				
	4.4 Explain Electromagnetism	4.5 Discuss x-ray under the following: - Prediction - Properties and nature (in healthcare)	<ul style="list-style-type: none"> • C.T Scan • 			
	4.5 Discuss x-ray under the following: - Prediction - Properties and nature (in healthcare)	4.6 State the precautionary measures in radiological procedures				
	4.6 State the precautionary measures in radiological procedures					

General Objectives **5.0:Understand principles of optics and light waves in application to health care**

5.1 Define the following: - Optics - Waves		<ul style="list-style-type: none"> • Books • Samples of Lenses etc. • Multimedia projector/ Laptops 				Assignment Test Examination
5.2 List types of Waves						
5.3 Explain the basic principles in the propagation of sound waves					<ul style="list-style-type: none"> • Demonstrate and assist students apply light as in 5.9 	
5.4 Define light energy					<ul style="list-style-type: none"> • Organize visit to X-ray or Medical Imaging Depart. • Carry out visit to eye clinic 	
5.5 Discuss properties of light						
5.6 List sources of light						

	<p>energy</p> <p>5.7 Explain the following:</p> <ul style="list-style-type: none"> - Propagation of light - Transmission of light - Reflection of light - Dispersion of light <p>5.8 Explain reflection of light through lenses</p> <p>5.9 Explain light application on -</p> <ul style="list-style-type: none"> - Simple lenses - Human eye - Microscope - Common eye defect - Corrective mechanism 					
General Objective 6.0: Know the various measurements and units relevant to DST practice.						
	<p>6.1 Enumerate types of measurement commonly carried</p>	<ul style="list-style-type: none"> • Lecture • Discussion 	<ul style="list-style-type: none"> • Text Books • Measuring Instruments i.e. sphygmomanometer, 	<p>6.5 Demonstrate the following:</p>	<ul style="list-style-type: none"> • Demonstrate and assist students to: <ul style="list-style-type: none"> - Measure pressure - Use urinometer - Use hydrometer 	<p>Assignment</p> <p>Test</p> <p>Examination</p>

	<p>out by nurses</p> <p>6.2 Explain Standard International Unit (SI Unit)</p> <p>6.3 Identify the various SI Units and their related English unit conversions</p> <p>6.4 Explain the conversion of the unit(s) identified in 6.3</p> <p>6.5 Explain the following measuring</p>		<p>urinometer, fluid hydrometer, barometer.</p> <ul style="list-style-type: none"> • White board/ marker 	<ul style="list-style-type: none"> - pressure measurement - use of urinometer - use of hydrometer <p>6.7 Demonstrate application of the following:</p> <ul style="list-style-type: none"> - Pascal's Law in a water mattress - Boyle's law in a sterilizer - Buoyancy and Archimedes law in cerebrospinal fluid (CSF), 	<ul style="list-style-type: none"> • Demonstrate and assist students in carrying out activities. 	
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	instruments and their uses: <ul style="list-style-type: none"> - Barometer - Sphygmomanometer - Hydrometer - Urinometer - Fluid hydrometer 6.6 Explain the following: <ul style="list-style-type: none"> - Characteristics of pressure in fluid - Specific gravity 6.7 Discuss the following and their applications to EHT <ul style="list-style-type: none"> - Pascal's law - Boyle's law - Buoyancy and Archimede's principles - Viscosity 			Amniotic fluid etc. - Viscosity of Fluid, Blood in the capillary tubes		
General Objective 7.0: Understand the concepts and principles of elasticity and their application DST practice.						
	7.1 Define elasticity	<ul style="list-style-type: none"> • Lecture • Discussion • Multimedia 	<ul style="list-style-type: none"> • Books • Anatomical 			Assignment Test

	<p>7.2 Explain stress and strain</p> <p>7.3 Enumerate and discuss types of stress</p> <p>7.4 Define the following:</p> <ul style="list-style-type: none"> - Hook's law - Young's modulus - Bulk's modulus - Shear's modulus <p>7.5 Describe the applications of 7.4 in the following:</p> <ul style="list-style-type: none"> • Blood vessels • Spring balance • Shearing force in decubitus 	presentation	<p>models i.e. blood vessels, arteries, veins etc.</p> <ul style="list-style-type: none"> • Multimedia projector/ <p>Laptops</p>			Examination
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	ulcer					
General Objective 8.0: Know the basic machines used in health care practice						
	<p>8.1 Define machine</p> <p>8.2 Enumerate types of machine used in health care</p> <p>8.3 Explain the applications of lever and pulleys in DST practice.</p>	<ul style="list-style-type: none"> • Lecture • Discussion 	<ul style="list-style-type: none"> • Books • Charts • Samples of Pulleys and Levers 	<p>8.2 Classify and Give examples of</p> <ul style="list-style-type: none"> - Levers - Pulleys <p>8.3 Demonstrate the application of levers and pulleys</p>	<ul style="list-style-type: none"> • Demonstrate classification of levers / pulleys 	<p>Assignment</p> <p>Test</p> <p>Examination</p>
General Objective 9.0: Know the principles of force(s) and their application to DST practice.						
	<p>9.1 Define the following:</p> <ul style="list-style-type: none"> - Force - Work - Energy - Power <p>9.2 Explain the</p>	<ul style="list-style-type: none"> • Lecture • Discussion 	<ul style="list-style-type: none"> • Text books • White Board/ Marker • Multimedia projector/ Laptops 			<p>Assignment</p> <p>Test</p> <p>Examination</p>

	principles and relevance of the following to DST practice: <ul style="list-style-type: none"> - Force - Work - Energy - Power 					
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Programme: National Diploma in Dental Surgery Technology		
Course Title: Chemistry	Code: DST 114	Credit Hour: 2
		Credit Unit: 2
	Pre-requisite:	Theoretical: hours/week
Year: 1 Semester: 1		Practical : hours/week

Course main Goal: This course is designed to provide the students with basic knowledge of chemistry and its application in

Dental Surgery Technology.

General Objectives: On the completion of the course, the student should be able to:

- 1.0 Understand the concepts and the principles of Chemistry and its importance to Environmental Health Practice.
- 2.0 Understand the nature of matter.
- 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 Environmental Health practice.
- 6.0 Know the classification and structure of organic and inorganic compounds and their application on Environmental Health practice.
- 7.0 Understand atomic structure and nuclear energy.

Programme: National Diploma in Dental Surgery Technology

Course Title: Chemistry

Code: DST 114

CH: 2 CU: 2

General Objective 1.0: Understand the concepts and the principles of Chemistry and its importance to Environmental Health Practice.

Week	Specific Learning Outcomes (Theory)	Teacher's Activities	Resources	Specific Learning Outcomes (Practical)	Teacher's Activities	Evaluation
1-2	1.1 Define Science, Chemistry	<ul style="list-style-type: none"> Lecture 	<ul style="list-style-type: none"> Textbooks White 			

	<p>1.2 List branches of chemistry and their relevance to DST practice</p> <p>1.3 Explain the nature and importance of chemistry to DST practice.</p>	<ul style="list-style-type: none"> • Discussion 	<p>Board/Marker</p> <ul style="list-style-type: none"> •Multimedia projector/Laptops 			
General Objectives 2.0: Understand Nature of Matter						
	2.1 Describe Physical and chemical properties of matter	<ul style="list-style-type: none"> • Lecture • Discussion 	<ul style="list-style-type: none"> • Charts • White Board/Marker • Packages containing 	2.1Demonstrate Physical and chemical change using substances like	Demonstrate and assist students perform activities on 2.1, 2.4 2.5 2.6	Assignment Test Examination

2.2 Describe physical and chemical changes in the body.		materials on nature of matter	water and air		
2.3 Explain the chemical symbols of elements.		<ul style="list-style-type: none"> • Textbooks • Multimedia projectors 			
2.4 Describe classification of elements, compounds and mixtures.		Computers.			
2.5 Discuss particulate nature of matter:			2.4 Demonstrate separation of mixtures e.g. blood, air and their application		
<ul style="list-style-type: none"> - Atoms - Molecules - Ions 			2.5 Use simple formulae and equations		
2.6 Explain			2.6 Apply symbols, formulae of elements and		

	structure and chemical Combinations.			components		
General Objective 3.0: Know acids, bases, salts and their characteristics						
	<p>3.1 Define the following: acids, bases and salts</p> <p>3.2 Discuss properties and uses of acids, bases and salts.</p> <p>3.3 Discuss types of salts and their uses.</p> <p>3.4 Describe:- efflorescent, deliquescent</p> <p>3.5 List examples of properties of metals and non-metals.</p>	<ul style="list-style-type: none"> Lecture Discussion 	<ul style="list-style-type: none"> Samples of compounds i.e. Acids, Base, Salts etc. Acid Base <p>Pipettes/ Beakers</p>	<p>3.2 Measure the aciDSTy and alkalinity of acid and base compounds.</p>	<ul style="list-style-type: none"> Demonstrate and assist students perform activity on 3.6 Demonstrate and assist students perform activity on 3.7, 3.8 and 3.9. 	<p>Assignment</p> <p>Test</p> <p>Examination</p>

	<p>3.6 Discuss hydrolysis of salts.</p> <p>3.7 Discuss titration acid and base</p> <p>3.8 Discuss simple volumetric analysis</p>			<p>3.6 Demonstrate hydrolysis of salts.</p> <p>3.7 Titrate acid and base</p> <p>3.8 Perform simple volumetric analysis</p>	Demonstration	
General Objective 4.0: Understand Electrolysis /Electrolytes						
	<p>4.1 Define the following</p> <ul style="list-style-type: none"> - Electrolytes - Non-electrolytes - Electrolysis <p>4.2 Describe ionic theory and ionization</p>	<ul style="list-style-type: none"> • Lecture • Discussion • Demonstrate electrolysis and guide student to do return demonstration 	<ul style="list-style-type: none"> • Multimedia projector//Laptops 			<p>Quiz</p> <p>Test</p> <p>Examination</p>

	<p>4.3 Describe electrolytes/non-electrolytes</p> <p>4.4 Explain Electrolysis</p> <p>4.5 Enumerate the composition of air</p> <p>4.6 Explain air pollution and purification</p> <p>4.7 Explain water pollution and purification</p>					
General Objective 5.0: Understand the application of knowledge of carbon and hydrocarbon compounds to Environmental Health practice.						
	<p>5.1 Define Carbons</p> <p>5.2. List the properties of</p>	<ul style="list-style-type: none"> Lecture <p>Discussion</p>	<p>Sample of :</p> <ul style="list-style-type: none"> Alcohol 			<p>Quiz</p> <p>Test</p> <p>Examination</p>

	<p>elements</p> <p>5.3. Describe hydrocarbons (saturated and unsaturated)</p> <p>5.4. Discuss the following functional group chemistry</p> <ul style="list-style-type: none"> - Alcohol - Amines - Carbonyls <p>Carboxylic acid etc.</p>		<ul style="list-style-type: none"> • Amino • Carbon • Acids <p>Multimedia projector</p>			
General Objective 6.0: Know the classification and structure of organic and inorganic compounds and their application on Environmental Health practice.						
	<p>6.1 Define and classify the following:</p> <ul style="list-style-type: none"> - Organic compounds - Inorganic compounds 	<ul style="list-style-type: none"> • Lecture • Discussion <p>Sketch out examples of the structures for the</p>	<ul style="list-style-type: none"> • White board/Marker • Textbooks • Charts • Multimedia Projector 			<p>Quiz</p> <p>Test</p> <p>Examination</p>

	<p>6.2 Enumerate examples of oxidation products of alcohol.</p> <p>6.3. State examples and uses of aldehydes in DST practice</p> <p>6.4. Describe the Chemical compounds of the following:-</p> <ul style="list-style-type: none"> - Carbohydrates - Proteins - Fatty acids - Lipids <p>6.5. State the</p>	students to observe.	<p>/Laptops</p> <ul style="list-style-type: none"> • Card board paper • Card board paper • Multimedia projector • Markers 			
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	<p>biological</p> <p>importance of</p> <p>some organic and</p> <p>inorganic</p> <p>substances.</p> <p>6.6 Draw the</p> <p>biochemical</p> <p>structures of</p> <p>organic and</p> <p>in-organic</p> <p>compounds and</p> <p>list examples.</p>					
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General Objective 7.0: Understand atomic structure and nuclear energy

	<p>7.1. Discuss natural</p> <p>and artificial</p> <p>radio-activity</p> <p>7.2. List radioactive</p> <p>elements</p>	<ul style="list-style-type: none"> Lecture <p>Discussion</p>	<ul style="list-style-type: none"> Sample of substance with radio- active elements <p>Multimedia projector/Laptops</p>			<p>Quiz</p> <p>Test</p> <p>Examination</p>
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	<p>7.3 Discuss types of radiations from radioactive elements e.g. alpha, beta, and gamma.</p> <p>7.4 Explain nuclear structure and radioactive decay</p> <p>7.5 Explain the following:-</p> <ul style="list-style-type: none"> - Radio-isotopes - nuclear reaction - nuclear energy e.g. nuclear fusion <p>7.7 Identify health hazards from radioactive</p>					
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	substance 7.8 State precautionary measures taken against biochemical and radioactive substances used in the Health care System.					
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PROGRAMME: NATIONAL DIPLOMA DENTAL SURGERY TECHNOLOGY			
COURSE: MEDICAL SOCIOLOGY			
CODE: OCT 115			
DURATION: (Hours/Week) Lecture: 2	Tutorial: -	Practical : -	Total: 2hrs.
UNITS:2 CU			
GOAL: This course is designed to introduce students to the relationship between Sociology and Medicine and			

applicationof Sociological concepts in the health care delivery system of Nigeria.
GENERAL OBJECTIVE: On completion of the course, the student should be able to:-
1.0 Understand the socio-cultural aspects of medicine 2.0 Understand family/societal response to health and illness 3.0 Understand the relationship between the social class and illness 4.0 Understand the complementary nature of the practice of modern and traditional medicine 5.0 Understand the roles and relationship between health care practitioners and their clients 6.0 Understand the general principles of social planning as it affects health care delivery system in Nigeria 7.0 Understand the present socio-cultural /medical problems in relation to orthopaedic conditions.

PROGRAMME: NATIONAL DIPLOMA DENTAL SURGERY TECHNOLOGY		
COURSE: Medical Sociology	Course Code: DST 115	Contact Hours: 2hrs
COURSE SPECIFICATION: Theory		
GENERAL OBJECTIVE: 1.0 Understand the socio-cultural aspects of Medicine		
Specific Learning Objective (Theory)	Teacher's Activities	Resources
1.1 Define Sociology and Culture 1.2 Explain the nature and scope of medical sociology 1.3 Explain the concepts of health and illness 1.4 Analyze the socio -cultural implications of ill-	<ul style="list-style-type: none"> - Lecture - Discussion - Assignments 	<ul style="list-style-type: none"> - Charts - Projectors - White board/ marker

health		
General objectives: 2.0: Understand the family/societal response to Health and Illness		
Specific Learning Objective (Theory)	Teacher's Activities	Resources
<p>2.1 Identify the causes of the following tropical diseases e.g bilharzia, chronic malaria, sleeping sickness, river blindness, poliomyelitis, sickle cell anaemia,conjunctivities, worm infestation, kwashiorkor, hepatitis,cardiovascular diseases, diabetes, hypertension, mental illness etc.</p> <p>2.2 Outline the family and societal response to each disease listed in 2.1 above.</p>	<ul style="list-style-type: none"> - Lectures - Discussions - Assignments 	<ul style="list-style-type: none"> - Posters showing the diseases - Projector - Chart showing family
General objectives: 3.0: Understand the relationship between social class and illness		
Specific Learning Objective (Theory)	Teacher 's Activities	Resources
<p>3.1 Categorize diseases into those of affluence and those of poverty e.g. hypertension, cardio-vascular disease, diabetes, stroke, obesity, kwashiorkor, hypertension,tuberculoses, kidney diseases etc.</p> <p>3.2 Explain the relationship between social class and the various diseases listed in 3.1 above.</p>	<ul style="list-style-type: none"> - Lectures - Discussions - Assignment 	<ul style="list-style-type: none"> - Chart showing affluence and poverty related diseases
GENERAL OBJECTIVE: 4.0 Understand the complementary nature of the practice of modern and traditional medicine		
Specific Learning Objective (Theory)	Teacher's Activities	Resources

4.1 Describe the socio-cultural setting of modern health institution	- Lecture - Discussion - Assignments	- Chart showing modern and traditional medicine
4.2 Describe the characteristic features unique to traditional health institutions		
4.3 Evaluate the best method of health care delivery using modern hospitals, health centers, dispensaries as points of reference.	-Teacher assists students in evaluation of health care delivery system.	- Chart showing the Nigerian health care delivery system -Visit to health care facilities -Developed Questionnaires
General objectives: 5.0 - Understand the roles and relationship between practitioners and their clients.		
Specific Learning Objective (Theory)	Teacher's Activities	Resources
5.1 Analyze the doctor-patient relationship 5.2 Identify the roles of the hospital administrator and health practitioner.	- Lecture - Discussion - Assignments	- Organogram of hospital/ leadership roles
Course Specification: PRACTICAL	Teacher's Activities	Resources
5.3 Evaluate the doctor-nurse relationship and nurse-patient relationship	-assists students in evaluation of doctor-nurse roles/ relationship and nurse- patient relationship	-Chart with outline of various relationships within the hospital setting. -Visit to health care facilities -Developed Questionnaires
General objectives: 6.0: Understand the general principles of social planning as it affects health care delivery system		

in Nigeria		
Specific Learning Objective (Theory)	Teacher's Activities	Resources
<p>6.1 Describe the pattern of health care delivery in Nigeria</p> <p>6.2 Explain the Federal Government policies on health, education, family planning, housing, water supply, water disposal, disease prevention, curative medicine, rehabilitation.</p>	<ul style="list-style-type: none"> - Lectures - Discussions - Assignments 	-Chart with outline of Nigerian health care delivery system
GENERAL OBJECTIVE: 7.0: Understand the present socio-cultural /medical problems in relation to orthopaedic conditions		
Specific Learning Objective (Theory)	Teacher's Activities	Resources
<p>7.1. Describe the present health pattern in Nigeria utilizing current WHO reports and newspaper articles.</p> <p>7.2 Analyze the current health problems and their solutions, per available current sources.</p> <p>7.3 Identify the problems associated with the over emphasis on curative rather than preventive medicine</p> <p>7.4 Analyze the prospects of the Expanded Programme on Immunization (EPI) and Oral Rehydration Therapy (ORT) programmes in</p>	<ul style="list-style-type: none"> - Lectures - Discussions - Assignment 	<p>-Sample of WHO report</p> <p>-Sample of EPI chart from FMOH</p> <p>-Sample of ORT chart from FMOH</p> <p>-Projector</p> <p>-White board/Marker</p>

Nigeria.		-Flip chart
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DST 116 ORAL HEALTH SCIENCE I [Not Developed]

Programme: National Diploma in PROGRAMME: NATIONAL DIPLOMA IN DENTAL SURGERY TECHNOLOGY		
Course Title: ORAL ANATOMY & PHYSIOLOGY	Code: DST 117	Credit Hour: 45 Hours Credit Unit: 3
	Pre-requisite:	Theoretical: 2 hours/week
Year: One Semester: First		Practical : 1 hours/week

Course main Goal: this course is designed to give students the knowledge of teeth and the supporting structures

General Objectives:

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

1.0 Comprehend the basic structure of the teeth, the bone and their supporting structures.

2.0 Recognize the blood and nerve supply of head and neck

3.0 Appreciate the masticatory apparatus and role of mastication

4.0 Apprehend the mechanisms of tooth eruption

5.0 Apply the knowledge of oral health sciences to changes that can occur in dental and oral diseases.

Programme: National Diploma in PROGRAMME: NATIONAL DIPLOMA IN DENTAL SURGERY TECHNOLOGY

Course Title: (ORAL ANATOMY & ORAL PHYSIOLOGY)

Code: DST 117

Credit Hour: 45 Hours

Credit Unit: 3

Pre-requisite:

Theoretical: hours/week

Course Title:

Code: DST 117

CH: CU:3

General Objective 1.0 : Comprehend the basic structure of the teeth, the bone and their supporting structures

Week	Specific Learning Outcomes	Teacher's Activities	Resources	Specific Learning Outcomes	Teacher's Activities	Evaluation
1-2	1.1 Define Tooth 1.2 Describe the structure of the tooth in human. 1.3 Explain types of Teeth 1.4 Describe the uses of the types of Teeth in 1.3 above. 1.5 Describe the structure of the	Describe the structure, types and uses of the teeth Describe the structure of the bone that supports	Internet, charts, video clips, Models etc.	Identify the structure, types and uses of the teeth	Guide students in the Identification of the structure, types and uses of the teeth.	Explain the structure, types and uses of the teeth in human.

	<p>bone that supports the Teeth.</p> <p>1.6 Explain supporting structures of the teeth:</p> <ul style="list-style-type: none"> -Alveolar bone -Gum and periodontal ligament. <p>1.7 Describe the basic principles of surface anatomy of the head and neck.</p> <p>1.8 Identify human teeth and their anatomical relationship:</p> <ul style="list-style-type: none"> -Enamel -Dentin, cementum and the pulp. 	<p>the Teeth:</p> <ul style="list-style-type: none"> -Alveolar bone -Gum and periodontal ligament. <p>Describe the basic principles of surface anatomy of the head and neck.</p> <p>Describe human teeth and their anatomical relationship:</p> <ul style="list-style-type: none"> -Enamel -Dentin, cementum and the pulp. 				
3.0 General Objectives 2.0 Recognize the blood and nerve supply of head and neck						
	<p>Describe the Nerve that supplies blood to the head and neck.</p> <p>Explain the histology oral tissues of the mouth:</p> <ul style="list-style-type: none"> - Mucous membrane <p>Describe the Anatomy of major salivary glands in the mouth.</p>	<p>Explain the Nerve that supplies blood to the head and neck and the histology oral tissues of the mouth:</p> <ul style="list-style-type: none"> - Mucous membrane <p>Explain the Anatomy</p>	Internet, charts, video clips, Models etc.			<p>Explain the Nerve that supplies blood to the head and neck and the histology oral tissues of the mouth:</p> <ul style="list-style-type: none"> - Mucous membrane

		of major salivary glands in the mouth.				
General Objective 3.0 Appreciate the masticatory apparatus and role of mastication						
	3.1 Define Mastication and chewing 3.2 Differentiate between the two in 3.1 above 3.3 Name muscles used in mastication 3.4 Explain masticatory apparatus: -Teeth, Jaw, muscles of mastication and temporomandibular joints.	Explain the meaning of Mastication and chewing Describe muscles used in mastication and chewing. Explain masticatory apparatus: -Teeth, Jaw, muscles of mastication and temporomandibular joints.	Internet, charts, video clips, Models etc.			Explain Mastication and chewing and their apparatus.
General Objectives 4.0 Apprehend the mechanisms of tooth eruption						
	4.1 Define tooth eruption 4.2 Explain factors that determine tooth eruption 4.3 State the stages of tooth eruption.	Explain tooth eruption, factors that determine tooth eruption and stages of tooth eruption.	Internet, charts, video clips, Models etc.			Explain tooth eruption, factors that determine tooth eruption and stages of tooth eruption

	<p>4.4 Explain causes of tooth eruption</p> <p>4.5 Explain teething in human.</p> <p>4.6 Examine the role of microorganisms in oral health.</p>	Explain the role of microorganisms in oral health.				
General Objectives 5.0 Apply the knowledge of oral health sciences to changes that can occur in dental and oral diseases						
	<p>5.1. Define oral diseases of the mouth.</p> <p>5.2 List types of oral diseases.</p> <p>5.3 Describe clinical appearance of oral diseases</p> <p>5.4 Explain the causes, treatment and prevention as listed in 5.2 above.</p>	Describe oral diseases of the mouth, their clinical appearance, causes, treatment and preventions.	Internet, charts, video clips, Models etc.			Describe oral diseases of the mouth, their clinical appearance, causes, treatment and preventions

Programme: National Diploma in PROGRAMME: NATIONAL DIPLOMA IN DENTAL SURGERY TECHNOLOGY		
Course Title: DENTAL INSTRUMENTATION I	Code: DST 118	Credit Hour: 45 Hours Credit Unit: 3
	Pre-requisite:	Theoretical: hours/week
Year: One Semester: First		Practical : hours/week

Course main Goal: this course is designed to acquaint personnel with knowledge and skill on instrument and instrumentation in dental practice.

General Objectives:

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

- 1.0 Comprehend instruments and instrumentation
- 2.0 Recognize the differences between instruments and equipment
- 3.0 Recognize negligence instrumentation
- 4.0 Recognize the use of basic equipment in dental surgery
- 5.0 Identify simple care and maintenance of dental instruments and equipment
- 6.0 Identify contents of basic examination tray
- 7.0 Recognize the use of appropriate instruments in the examination of patients.

Programme: National Diploma in PROGRAMME: NATIONAL DIPLOMA IN DENTAL SURGERY TECHNOLOGY		
Course Title: DENTAL INSTRUMENTATION I	Code: DST 118	CH:3 CU:3

General Objective 1.0 : Comprehend instruments and instrumentation						
Week	Specific Learning Outcomes	Teacher's Activities	Resources	Specific Learning Outcomes	Teacher's Activities	Evaluation
1-2	1.1 Define Instruments and Instrumentation 1.2 List types of instruments 1.3 Classify instruments in 1.2 1.4 State the use of the classified instruments.	Explain instruments and instrumentation. Explain the objectives and importance of Dental Instrumentation.	Diagrams, Internet, charts, Models, video clips,	Identify types, classifications and the use of instruments.	Guide students to Identify types, classifications and the use of instruments.	Explain instruments and instrumentation types, classifications and the use of instruments.
General Objectives 2.0 Recognize the differences between instruments and equipment.						
	2.1 Define equipment 2.2 State the differences between instrument and equipment 2.3 List examples of equipments used in dental practice. 2.4 Classify equipment used in dental practice	Explain the different equipment use in dental practice.	Diagrams, Internet, charts	Identify the different equipment use in dental practice	Guide students in Identifying the different equipment use in dental practice	Explain the different equipment use in dental practice.
General Objectives 3.0 Recognize negligence in instrumentation						
	3.1 Define negligence in dental instrumentation. 3.2 Describe types of negligence: gross, contributory, comparative and vicarious. 3.3 Describe 4 element of	Discuss negligence in dental instrumentation. -gross, -contributory, -comparative and -vicarious.	Diagrams, Internet, charts, Models, video clips, equipment,	Identify negligence in instrumentation and damages/injury that may occur as a result of careless instrumentation.	Lead students to observe various negligence in instrumentation and damages/injury that may occur as a result of	Explain damages/injury that can occur as a result of careless instrumentation. i.To the instrument

	<p>negligence:</p> <p>duty, breach of duty, cause and harm.</p> <p>3.4. Explain effects of negligence in instrumentation.</p> <p>3.5 identify damages/injury that can occur as a result of careless instrumentation.</p> <p>i. To the instrument</p> <p>ii. To the patient</p> <p>iii. To the operator</p> <p>3.6 Explain how to avoid such damages/injury identified in 3.5 above</p>	<p>Explain 4 elements of negligence:</p> <p>duty, breach of duty, cause and harm.</p> <p>Explain effects and how to avoid negligence in instrumentation and damages/injury that can occur as a result of careless instrumentation.</p>			careless instrumentation	<p>ii. To the patient</p> <p>iii. To the operator.</p>
General Objectives 4.0 Use basic equipment and instrument in dental surgery						
	<p>4.1 Explain the use of basic equipment and instruments in dental surgery.</p> <p>4.2 Explain the hand instruments required for the oral examination of a patient.</p> <p>4.2 Identify the contents of the basic examination tray.</p>	<p>Explain the use of basic equipment and instruments in dental surgery.</p> <p>Explain the hand instruments required for the oral examination of a patient.</p>	Diagrams, Internet, charts, Models, video clips, equipment			Explain the hand instruments required for the oral examination of a patient

General Objectives 5.0 Use basic equipment and instrument in dental surgery						
	<p>5.1 Identify the equipment needed in the dental surgery eg.dental chair,dental unit,compressor,sterilizer etc</p> <p>5.2 Explain ways of simple maintenance of the equipment as listed 4.1 above eg.Lubricating,cleaning etc</p>	<p>Explain the equipment needed in the dental surgery eg.dental chair,dental unit,compressor,sterilizer etc</p> <p>Suggest ways of simple maintenance of the equipment as listed 4.1 above eg.Lubricating,cleaning etc</p>	Diagrams, Internet, charts, Models, video clips, equipment	<p>Practice ways of simple maintenance of the equipment as listed 4.1 above eg.Lubricating,cleaning etc</p>	<p>Assist students in simple maintenance of the equipment as listed 4.1 above eg. Lubricating, cleaning etc</p>	<p>Explain the equipment needed in the dental surgery and suggests ways of maintaining them.</p>
General Objective 6.0 Identify content of basic examination tray						
	<p>6.1 Identify the appropriate instruments for examination of the oral cavity e.g dental (mouth mirror),periodontal probe,other probes,tweezers.</p> <p>6.2 Set the instrument identified in 6.1 ready for use</p> <p>6.3 Reflect,retract and protect parts of the mouth using mirror</p> <p>6.4 Determine the dept of gum loss using the periodontal probe</p> <p>6.5 Determine the presence of</p>	<p>Explain instruments use for examination of the oral cavity e.g dental (mouth mirror),periodontal probe,other probes,tweezers.</p>	Mouth mirror, Tweezer, dental probe.			<p>Explain appropriate instruments for examination of the oral cavity e.g dental (mouth mirror),periodontal probe,other probes,tweezers.</p>

	tooth decay using other probes					
	6.6 Transfer materials to and from oral cavity using the college tweezers.					

PROGRAMME:		DENTAL SURGERY TECHNOLOGY [ND]					
COURSE:		USE OF ENGLISH I					
CODE:		GNS 101					
DURATION (Hours/Week) Lecture: 2 Hour		Tutorial: 0		Practical: - 0		Total: 2 (30hrs/semester)	
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 OBJECTIVES:		On completion of this course, the student should be able to:					
1.0 Develop appropriate study skills.							
2.0 Know the nature of language.							
3.0 Understand the basic rules of grammar.							
4.0 Know the essential qualities of paragraph.							

5.0 Appreciate literacy works in English.

COURSE SPECIFICATION: Theoretical Contents:				Practical Contents:.		
	General Objective: 1.0 Develop appropriate study skills.					
WEEK	Specific Learning Objective Theory	Teachers Activities	Learning Resources	Specific Learning Objective	Teachers Activities	Learning Resources
1	Study Skills 1.1 Explain the necessity for acquiring good note taking/making techniques. 1.2 List the methods of note-taking/making. 1.3 Use the dictionary	<ul style="list-style-type: none">Explain the necessity for acquiring good note taking/making techniques.List the methods	<ul style="list-style-type: none">	<ul style="list-style-type: none">	<ul style="list-style-type: none">	

	correctly	of note-taking/making. <ul style="list-style-type: none"> Use the dictionary correctly 				
2	1.4 List information sources in the Library. 1.5 Locate information in the sources listed in 1.4 above. 1.6 Identity good reading habits.	<ul style="list-style-type: none"> List information sources in the Library. Locate information in the sources listed in 1.4 above. Identity good reading habits. 	•	•	•	
3	1.7 Explain the different methods of reading, viz, scan, skim, normal and study. 1.8 Use the different methods of reading explained in 1.7 above.	<ul style="list-style-type: none"> Explain the different methods of reading, viz, scan, skim, normal and study. Use the different methods of reading explained in 1.7 above. 	•	•	•	
	General Objectives: 2.0 Know the nature of language.					
WEEK	Specific Learning Objective Theory	Teachers Activities	Learning Resources	Specific Learning Objective	Teachers Activities	
4	Language					

	2.1 Explain the concept of language. 2.2 List the characteristics of language. 2.3 Explain the four language skills, viz, speaking, listening, writing, reading.	<ul style="list-style-type: none">• Explain the concept of language.• List the characteristics of language.• Explain the four language skills, viz, speaking, listening, writing, reading.				
5	2.4 Explain the functions of language. 2.5 List the uses of English Language in Nigeria, e.g. as the language of research, government, commerce, etc.	<ul style="list-style-type: none">• Explain the functions of language.• List the uses of English Language in Nigeria, e.g. as the language of research, government, commerce, etc.				
	General Objectives: 3.0 Understand the basic rules of grammar.				General Objectives:	
WEEK	Specific Learning Objective Theory	Teachers Activities	Learning Resources	Specific Learning Objective	Teachers Activities	Learning Resources
6	Grammatical Conventions					-

	3.1 Explain grammar 3.2 Explain parts of speech.	<ul style="list-style-type: none">• Explain grammar• Explain parts of speech.				
7	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.	<ul style="list-style-type: none">• 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.				
8	3.6 List punctuation marks. 3.7 Enumerate the uses of punctuation marks. 3.8 Punctuate a given passage. 3.9 Explain idioms	<ul style="list-style-type: none">• List punctuation marks.• Enumerate the uses of punctuation marks.• Punctuate a given passage.• Explain idioms				
9	3.10 Explain figures of speech. 3.11 Explain affixation.	<ul style="list-style-type: none">• Explain figures of speech.• Explain affixation.				

	3.12 Construct sentences to illustrate idioms, figures of speech and affixes.	<ul style="list-style-type: none"> Construct sentences to illustrate idioms, figures of speech and affixes. 				
General Objectives: 4.0 Know the essential qualities of paragraphs.						
WEEK	Specific Learning Objective Theory	Teachers Activities	Learning Resources	Specific Learning Objective	Teachers Activities	Learning Resources
10	Paragraphing 4.1 Define a paragraph 4.2 Name the parts of paragraph, viz., topic sentence, development, and conclusion/transition.	<ul style="list-style-type: none"> Define a paragraph Name the parts of paragraph, viz., topic sentence, development, and conclusion/transition. 	<ul style="list-style-type: none"> 			
11	4.3 Explain the thematic qualities of a paragraph viz, unity, coherence and emphasis. 4.4 Explain methods of paragraph development, viz, example, definition, comparison and contrasts etc.	<ul style="list-style-type: none"> Explain the thematic qualities of a paragraph viz, unity, coherence and emphasis. Explain methods of paragraph development, viz, example, definition, comparison and 	<ul style="list-style-type: none"> 			

		contrasts etc.				
12	<p>4.5 Explain methods of ordering details in a paragraph viz, less complex to more complex and vice versa, less important to more important and vice versa, spatial, chronological, etc.</p> <p>4.6 Write specific paragraphs to illustrate 4.2 to 4.5 above.</p>	<ul style="list-style-type: none"> Explain methods of ordering details in a paragraph viz, less complex to more complex and vice versa, less important to more important and vice versa, spatial, chronological, etc. Write specific paragraphs to illustrate 4.2 to 4.5 above. 	<ul style="list-style-type: none"> 			
	General Objective: 5:Appreciate literacy works in English.					
WEEK	Specific Learning Objective Theory	Teachers Activities	Learning Resources	Specific Learning Objective	Teachers Activities	Learning Resources
13	<p>Literature in English</p> <p>5.1 Give the meaning of</p>	<ul style="list-style-type: none"> Give the meaning 				

	Literature. 5.2 Trace the development of literature.	of Literature. <ul style="list-style-type: none">• Trace the development of literature.				
14	5.3 Differentiate between the literary genres. 5.4 Explain the functions of literature.	<ul style="list-style-type: none">• Differentiate between the literary genres.• Explain the functions of literature.				
15	5.5 Explain the terminology of prose fiction, e.g. plot setting, characterization etc. 5.6 Answer an essay question on a given novel.	<ul style="list-style-type: none">• Explain the terminology of prose fiction, e.g. plot setting, characterization etc.• Answer an essay question on a given novel.				

PROGRAMME: DENTAL SURGERY TECHNOLOGY (NATIONAL DIPLOMA)							
COURSE: CITIZENSHIP EDUCATION I							
CODE: GNS 111							
DURATION (Hours/Week) Lecture: 2hrs		Tutorial: 0		Practical: - 1		Total: 2 (30hrs/semester)	
UNITS: 2							
GOAL: This course is designed to expose the student to the basic concepts, principles and provisions of the Nigerian Constitution							
GENERAL OBJECTIVES: On completion of this 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.							
General Objective 1: Understand the constitution of Nigeria.							
Specific Learning Objectives		Teachers Activities	Learning Resources	Specific Learning Objectives	Teachers Activities	Learning Resources	Evaluation
1.1 Explain the term constitution.							
1.2 Distinguish the different types of constitutions.							
1.3 Highlight some provisions of an							

1.4	international constitution. Assess the effectiveness of international constitutions.						
1.5	Recognize the supremacy of the Nigerian constitution to other laws with emphasis on the 1999 constitution.						
1.6	Evaluate the main parts of the Nigerian constitution.						
1.7	Draft a constitution for an association.						
1.8	Trace the historical development of the Nigerian constitution.						
1.9	Discuss the merits and demerits of each of the Nigerian constitutions.						
1.10	Explain the concept of “rule of law”						
General Objective 2: Understand the federal system of government in Nigeria							
	Specific Learning Objectives	Teachers Activities	Learning Resources	Specific Learning Objectives	Teachers Activities	Learning Resources	Evaluation
2.1	Describe a Federation						
2.2	Distinguish a federation from a confederation.						

2.3	Outline the basis for the federal system in Nigeria.						
2.4	Examine the evolution, structure and functions of the federal system in Nigeria.						
2.5	Analyse the relationships among the three tiers of government in Nigeria.						
2.6	Evaluate the revenue allocation formula in operation in Nigeria.						
2.7	Compare and contrast other Federations with Nigeria.						
General Objective 3: Know the constitutional rights and obligations of Nigerian citizens							
Specific Learning Objectives		Teachers Activities	Learning Resources	Specific Learning Objectives	Teachers Activities	Learning Resources	Evaluation
3.1	Examine the significance of rights and obligations in Nigeria.			3.3			
3.2	Assess government's protection of fundamental rights as contained in the Nigeria Constitution						
General Objective 4: Understand citizenship							

Specific Learning Objectives		Teachers Activities	Learning Resources	Specific Learning Objectives	Teachers Activities	Learning Resources	Evaluation
4.1	Discuss the significance of citizenship.			-			
4.2	Analyse the principles and benefits of citizenship.						
4.3	Explain the differences in the modes of acquiring citizenship.						
4.4	Evaluate the merits and demerits of each type of citizenships,						
4.5	Analyse the basis for the acquisition and withdrawal of Nigerian citizenship.						
4.6	Examine the benefits derivable from Nigerian citizenship.						
General Objective 5: Know the fundamental objectives and directive principles of state policy of Nigeria							
Specific Learning Objectives		Teachers Activities	Learning Resources	Specific Learning Objectives	Teachers Activities	Learning Resources	Evaluation
5.1	State the fundamental obligations of government as provided in the constitution.						
5.2	Explain the general provisions of the						

	fundamental objectives and directive principles of state policy.						
5.3	Explain the political, economic, social and education policies of Nigeria.						
5.4	Explain the directive principles and 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.						
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PROGRAMME: DENTAL SURGERY TECHNOLOGY [ND]			
COURSE: INTRODUCTION TO COMPUTER SCIENCE			
CODE: COM 101			
DURATION (Hours/Week) Lecture: 1 Hour	Tutorial: 0	Practical: - 1	Total: 2 (30hrs/semester)
UNITS: 2			
GOAL: This course is designed to enable students acquire basic knowledge of computers.			
GENERAL OBJECTIVES: On completion of this course, the student should be able to: 1.0 Understand the history, classification and import of computers. 2.0 Know the concept of computer hardware 3.0 Know the concept of computer software. 4.0 Understand computer data processing systems. 5.0 Know the procedures for computer and data preparation. 6.0 Understand security and safety procedures within a computer environment. 7.0 Understand the concept of a computer network			

8.0 Understand the use of the internet.

General Objective 1: Understand the history, classification and import of computers.							
Specific Learning Objectives		Teachers Activities	Learning Resources	Specific Learning Objectives	Teachers Activities	Learning Resources	Evaluation
1.1	Define the computer	Lecture illustrate	White Board. PC loaded with Power point and connected to OHP				Quiz
1.2	Describe the development of computers, in particular abacus,Pascal, Babbage, Hollerith and ENIAC.						Test
1.3	Classify computers according to generations from 1st - 5th generation (any subsequent generation)						Assignments
1.4	Distinguish between analogue, digital, and hybrid computers						Examination
1.5	Explains the social implication of computers on society in particular privacies and quality of life.						
1.6	List the benefits of computers to the society.						
General Objective 2: Know the concept of computer hardware							
Specific Learning Objectives		Teachers Activities	Learning Resources	Specific Learning Objectives	Teachers Activities	Learning Resources	Evaluation
2.1	Define Hardware		White Board. PC loaded with Power point and connected to OHP	2.1 Be able to Identify the various components of a computer system	Guide the students to identify the various components of a computer system	A DEMO PC showing its components	Quiz
2.2	Describe computer hardware configuration.						Test
2.3	List some input and output units						Assignments
2.4	Describe the functions of the output unit.						Examination
2.5	Describe the components and functions of the various hardware						

units 2.6 Describe the function of C.P.U. 2.7 List some auxiliary Units. 2.8 Describe the function of the auxiliary memory 2.9 Define bits, byte, nibble, and word and storage size 2.10 Explain computer software programming languages 2.11 Differentiate between the levels. (Low and High-level languages)						
General Objective 3: Know the concept of computer software						
Specific Learning Objectives	Teachers Activities	Learning Resources	Specific Learning Objectives	Teachers Activities	Learning Resources	Evaluation
1.1 Explain software and its various types 1.2 Distinguish between the low - level and high - level languages. 1.3 Explain source and object programmes. 1.4 Explain computer packages and its various types.		White Board. PC loaded with Power point and connected to OHP	1.1 Load computer packages on computer system	Demonstrate how to load various computer packages on computer systems and supervise the student to do same	Networked PCs Different computer packages for loading	Quiz Test Assignments Examination
General Objective 4: Understand computer data processing systems.						
Specific Learning Objectives	Teachers Activities	Learning Resources	Specific Learning Objectives	Teachers Activities	Learning Resources	Evaluation
2.1 Explain different data processing techniques 2.2 Explain offline and online concepts		WhiteBoard. PC loaded	4.5 Identify real life problems requiring the application of the various data processing	Guide the students on how to identify real life problems requiring the	Networked PCs loaded with different computer packages	Quiz Test Assignments

2.3 Define batch processing, real time, time sharing and distributed processing		with Power point and connected to OHP	techniques. 4.6 Apply the various data processing techniques listed in 4.1	various data processing techniques		Examination
2.4 Differentiate between batch processing, real time processing, time-sharing and distributed processing system.						

General Objective 5: Know the procedures for computer and data preparation.

Specific Learning Objectives	Teachers Activities	Learning Resources	Specific Learning Objectives	Teachers Activities	Learning Resources	Evaluation
5.1 Explain how to operate a computer system 5.2 Initialize and format storage media.	Explain the principles and procedures of operating the computer system, the fix up, start up and shut-down systems Explain initialization and formatting of storage devices such as disks and diskettes	White Board. PC loaded with Power point and connected to OHP Diskettes	5.3 Boot and shut down computer system 5.5 Format diskettes	Guide the students on how to operate the computer. Show different storage media to students	Networked PCs and storage media such as diskette.	Quiz Test Assignments Examination

General Objective 6: Understand security and safety procedures within a computer environment						
Specific Learning Objectives	Teachers Activities	Learning Resources	Specific Learning Objectives	Teachers Activities	Learning Resources	Evaluation
6.1 Describe data control techniques, operating procedure of a computer installation, safety regulation in computer installation, method of preventing hazards such as fire, flooding and sabotage 6.2 Describe security methods in computer installation and the need for users passwords 6.3 Explain the need for computer room security. 6.4 Explain computer system auditing 6.5 Explain the need for file security in computer installation.		White Board PC loaded with relevant software packages and connected to OHP	6.6 Formulate passwords	Guide students on how to formulate simple password that they could easily remember	Networked PCs and storage media such as diskette	Quiz Test Assignments Examination
General Objective 7: Understand the concept of a computer network						
Specific Learning Objectives	Teachers	Learning	Specific Learning	Teachers	Learning	Evaluation

Programme: National Diploma in PROGRAMME: IN DENTAL SURGERY TECHNOLOGY [ND]		
Course Title: HUMAN BIOLOGY II	Code: DST 121	Credit Hour: 3 Credit Unit:3
	Pre-requisite:	Theoretical: 2 hours/week
Year: 2ND Semester:		Practical : 1 hours/week

Course main Goal: this course is designed to enable students understand the functions of body organs in Health and disease.

General Objectives: On the completion of the course, the student should be able to:

- 1.0 Describe the anatomical characteristics and functions of the control systems of the body.
- 2.0 Describe the Normal Physiological Variations and Adaptations of the Systems in Relation to the Environment.
- 3.0 Apply the knowledge in recognizing deviation from normal to assist in the management of patients.

Programme: National Diploma in PROGRAMME: NATIONAL DIPLOMA IN DENTAL SURGERY TECHNOLOGY						
Course Title: HUMAN BIOLOGY II			Code: DST 121		CH:3 CU:3	
General Objective 1. Control Systems of the Human Body						
Week	Specific Learning Outcomes	Teacher’s Activities	Resources	Specific Learning Outcomes	Teacher’s Activities	Evaluation
1-2	<p>1.1Nervous Tissue: Development, Organization, Structure and functions.</p> <p>1.2 The Brain and Cranial Nerves (CNS), (Emphasis should be laid on 5th & 7th Cranial nerves)</p> <p>The spinal cord and reflex are:</p> <p>1.3 The sensory, motor and integrative system</p> <p>-Sensations</p> <p>-Wakefulness and sleep</p> <p>-General senses</p>					

	<p>-Sensory pathways</p> <p>-Motor pathways</p> <p>1.4 The autonomic nervous system</p> <p>1.5 The special senses: Structures, functions, smell, taste, audition, sight, touch.</p> <p>1.6 The Endocrine System</p> <p>Endocrine glands: Location, structure and functions</p> <p>1.7 Hormones: Mechanism of hormonal action</p> <p>1.8 Control of hormonal secretions (Feedback mechanism)</p>					
General Objectives 2.0 Describe the Normal physiological variations and adaptations of the systems in relation to the environment.						
	2.1 Describe body's Normal Physiological Process					

	2.2 Explain Variations to Normal body's physiological process.					
General Objectives 3.0 Apply the knowledge in recognizing deviation from normal to assist in the management of patients.						
	3.1 Explain Causes of body's variation to normal body's physiological processes. 3.1 Apply the knowledge of 2.2 and 3.1 above to managempatients/clients.					

Programme: National Diploma in PROGRAMME: NATIONAL DIPLOMA IN DENTAL SURGERY TECHNOLOGY		
Course Title: FOUNDATION OF DENTAL SURGERY TECHNOLOGY II	Code: DST 122	Credit Hour: 45HRS Credit Unit:3
	Pre-requisite:	Theoretical: hours/week
Year: 1ST Semester: 2ND		Practical : hours/week

Course main Goal: this course is designed enable students to aquire knowledge of the nature of Dental Profession.

General Objectives: On completion of the course, the student should be able to:

1.0 Know the Evolution of Dental Health

2.0 Understand the Ethics of Dental Health Technician

3.0 Know other Health Professional Organizations.

4.0 Know other Professions Complimentary to Dentistry (PCDs)

5.0 Understand Health safety and Infection Control in Dentistry.

6.0 Understand Sterilization and disinfections methods in Dentistry.

7.0 Infectious diseases of oral health practice importance and prevention of cross infection.

Programme: National Diploma in PROGRAMME: NATIONAL DIPLOMA IN DENTAL SURGERY TECHNOLOGY

Course Title: FOUNDATION OF DENTAL SURGERY TECHNOLOGY II

Code: DST 122

CH:3 CU:3

General Objective 1.0 Know the Evolution of Dental Health

Week	Specific Learning Outcomes	Teacher's Activities	Resources	Specific Learning Outcomes	Teacher's Activities	Evaluation
1-2	1. Clinic cleaning 2. Care of dental equipment					

	<div>3. Moving helpless patient</div> <div>4. Assisting patient to sit</div> <div>5. Mechanical lifts</div> <div>6. Transporting patients in a wheel chair</div> <div>7. Safety measures</div>					
General Objectives 2.0 Understand the Ethics of Dental Health Technician						
	<div>1. Rectal</div> <div>2. Topical</div> <div>3. Inhalation</div> <div>4. Injections</div> <div>5. Dilution of lotion/injections</div> <div>6. Ear and eye irrigation</div> <div>7. Institution of drops</div> <div>8. Bladder irrigation</div> <div>9. Gastric lavage</div> <div>10. Thoracentesis</div> <div>11. Paracentesis abdominis</div> <div>12. Providing body fluids</div> <div>13. Naso-gastric</div> <div>14. Administering intravenous fluid/blood</div> <div>Gastrostomy feeding</div> <div>15. Maintaining fluid balance</div>					

	chart 16. Providing immediate life support 17. Cardiopulmonary resuscitation 18. Supporting respiratory function 19. Inhalations 20. Oxygen administration 21. Steam tent 22. Intermittent sanctioning of the trachea bronchial tree 23. Sterile techniques 24. Sterilization of instruments and decontamination equipment 25. Use of gloves.					
Objectives 3.0 Know other Health Professional Organizations.						
General Objectives 4.0 Know other Professions Complimentary to Dentistry (PCDs).						

General Objectives 5.0 Understand Health safety and Infection Control in Dentistry.						
General Objectives 6.0 Understand Sterilization and disinfections methods in Dentistry.						

General Objectives 7.0 Infectious diseases of oral health practice importance and prevention of cross infection.						

Programme: National Diploma in PROGRAMME: NATIONAL DIPLOMA IN DENTAL SURGERY TECHNOLOGY		
Course Title: NUTRITION & HEALTH	Code: DST 123	Credit Hour: 30 Credit Unit:2
	Pre-requisite:	Theoretical: hours/week
Year: 2nd Semester:		Practical : hours/week

Course main Goal: The course is designed to enable students acquire knowlegde of Nutrition and its application to healthy living.

General Objectives: On the completion of the course, the student should be able to:

1.0 Identify basic elements and nutrients in food

2.0 Recognize the influence of various factors on eating habits

3.0 Explain the role of food in the maintenance of health.

4.0 Understand the Importance of Dietetics in Health.

Programme: National Diploma in PROGRAMME: NATIONAL DIPLOMA IN DENTAL SURGERY TECHNOLOGY

Course Title: NUTRITION & HEALTH			Code: DST 123		CH:2 CU:2	
General Objective 1.0 : Identify basic elements and nutrients in food						
Week	Specific Learning Outcomes	Teacher’s Activities	Resources	Specific Learning Outcomes	Teacher’s Activities	Evaluation
1-2	1.1 Definition of nutritional term					
	1.2 Nutrients and their chemical structures					
	1.3 Functions and utilization of nutrient.					
General Objectives 2.0 Recognize the influence of various factors on eating habits						
	2.1nFunction of food in the body 2.2 Exclusive breast feeding (0-6 months) - Infant and young feeding 2.3 Complementary feeding (Infants 6-23 months old) - infant and young feeding 2.4 Changing food needs during life cycle 2.5 Growth monitoring 2.5 Factor affecting the choice of food body needs; <div><div>i.</div><div>cultural and ethnic background</div><div>ii.</div><div>Religion</div><div>iii.</div><div>Socio-economic status</div><div>iv.</div><div>Availability and geographical</div></div>					

	area					
	2.5 Health status.					
Objectives 3.0 Explain the role of food in the maintenance of health.						
	3.1 Method of food storage and preservation					
	3.2 Budgeting					
	3.4 Food Hygiene					
	3.5 Teaching and supervision of food handlers in the home, school, health institutions and public eating places.					
	3.6 Role of Government, other organizations, communities and families in food supply.					
General Objectives 4.0 Understand the Importance of Dietetics in Health.						
	4.1 Nutritional requirements in specific conditions					
	4.5 Use of nutrients supplement					
	4.5 Preparation diet for sick individual and family.					

Programme: National Diploma in		
Course Title: INTRODUCTION TO PHARMACOLOGY	Code: DST 124	Credit Hour: 2
		Credit Unit:2
	Pre-requisite:	Theoretical: hours/week
Year: 1ST Semester: 2ND		Practical : hours/week

Course main Goal: this course is designed to provide students with an introductory knowledge of basic terms and concepts of pharmacology

General Objectives: On the completion of the course, the student should be able to:

1. Understand the development of pharmacology and drug therapy
2. Know sources and classification of drugs
3. Know the various abbreviation used in dispensing drugs
4. Know the various routes of drug administration
5. Understand the implication of drug abuse.

Programme: National Diploma in PROGRAMME: NATIONAL DIPLOMA IN DENTAL SURGERY TECHNOLOGY						
Course Title: INTRODUCTION TO PHARMACOLOGY			Code: 124		CH:2 CU:2	
General Objective 1.0 Understand the development of pharmacology and drug therapy						
Week	Specific Learning Outcomes	Teacher’s Activities	Resources	Specific Learning Outcomes	Teacher’s Activities	Evaluation
1-2	1.1 Define pharmacology 1.2 Outline the development of pharmacology 1.3 Define drug and drug therapy 1.4 Identify the various forms of drugs e.g tablets, capsules solution 1.5 Define various terms used in pharmacology e. g toxicology , chemotherapy, compounding, prescriptions. 1.6 Explain the term medical history 1.7 Explain the importance of taking medical history before drug therapy					
General Objectives 2.0 Know sources and classification of drugs						
	2.1 List sources of drugs e.g					

	Plants, animals bacterial, synthesis. 2.2 Classify various drugs e.g antibiotics, analgestics, antacids stringents, sedatives, sulphonamide etc. 2.3 List the various types of drugs under classifications above					
Objective 3.0 Know the various abbreviation used in dispensing drugs						
	3.1 List the various abbreviations used in pharmacology e.g qds, tds, b.d, im, iv, etc 3.3 Explain the meaning of the abbreviations listed above 3.4 Explain the importance of the uses of abbreviations above in pharmacology					
General Objectives 4.0 Know the various routes of drug administration						
	4.1 Describe the various routes of drug administration e.g. oral subcutaneous, cutaneous , i.m, i.v, rectal,					

	etc. 4.2 Explain the advantages / disadvantages of each in above.					
General Objectives 5.0 Understand the implication of drug abuse.						
	5.1 Define drug abuse 5.2 Explain how drug can be abused 5.3 Explain the dangers of drug abuse 5.4 Explain the various forms of drug abuse.					

Programme: National Diploma in PROGRAMME: NATIONAL DIPLOMA IN DENTAL SURGERY TECHNOLOGY		
Course Title: BEHAVIOURAL SCIENCE II	Code: DST 125	Credit Hour: 2 Credit Unit:2
	Pre-requisite:	Theoretical: hours/week
Year: 1ST Semester: 2ND		Practical : hours/week

Course main Goal: The course is designed to enable students acquire knowledge of Health, Illness and Rehabilitation.

General Objectives: On completion of the course the students should be able to:

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

1.0 Understand Health-Illness Continuum

2.0 Know the Principles and Practice of Rehabilitation in Dentistry.

Programme: National Diploma in PROGRAMME: NATIONAL DIPLOMA IN DENTAL SURGERY TECHNOLOGY						
Course Title: BEHAVIOURAL SCIENCE II			Code: 125		CH:2 CU:2	
General Objective 1.0 Understand Health-Illness Continuum						
Week	Specific Learning Outcomes	Teacher’s Activities	Resources	Specific Learning Outcomes	Teacher’s Activities	Evaluation
1-2	1.1 Concepts of adequate, homeostasis and stress 1.2 Fluid and electrolyte imbalance 1.3 Concept of health and illness 1.4 Behaviour in illness 1.5 Relationship of illness to maturational level of individual 1.6 Implications for Dental					

	Practice.					
General Objectives 2.0- Principles and Practice of Rehabilitation						
	<p>2.1 Philosophy, scope and objectives of rehabilitation</p> <p>2.3 Concepts and process of rehabilitation</p> <p>-Specific rehabilitation situation</p> <p>-Techniques of rehabilitation</p> <p>-Role of family, community, government and non-government organizations in rehabilitation.</p>					

Programme: National Diploma in PROGRAMME: NATIONAL DIPLOMA IN DENTAL SURGERY TECHNOLOGY		
Course Title: GENERAL PATHOLOGY	Code: 126	Credit Hour: 45HRS Credit Unit:3
	Pre-requisite:	Theoretical: hours/week
Year: Semester:		Practical : hours/week

Course main Goal: this course is

<p>General Objectives:</p> <p>On the completion of the course, the student should be able to know basic knowledge of some common pathological processes:</p> <ul style="list-style-type: none"> 1.0 Know the definitions of common medical terms 2.0 Understand inflammation 3.0 Know the different pathological conditions that exist in medicine 4.0 Know the physical factors which causes injuries to the body 5.0 Know the biochemical processes that cause disease in the body
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Programme: National Diploma in PROGRAMME: NATIONAL DIPLOMA IN DENTAL SURGERY TECHNOLOGY						
Course Title: GENERAL PATHOLOGY			Code: 126		CH:3 CU:3	
General Objective 1.0 Know the definitions of common medical term						
Week	Specific Learning Outcomes	Teacher’s Activities	Resources	Specific Learning Outcomes	Teacher’s Activities	Evaluation
1-2	1.1 Define Medicine 1.2 Define Pathology, Symptoms and physical signs 1.3 Define Aetiology 1.4 List the divisions of Aetiology and their causative Agents 1.5 Define complication Sequel, Diagnosis, Differential Diagnosis Prognosis and prophylaxis.					
General Objectives 2.0 Understand inflammation						
	2.1 Define inflammation 2.2 Define vasodilatation 2.3 List the types of inflammations i.e acute and chronic 2.4 Describe the signs and					

	symptoms of inflammation 2.5 Explain the different stages of inflammation 2.6 Explain the process of inflammation changes					
Objectives 3.0 - Know the different pathological conDSTions that exist in medicine						
	3.1 Define an abscess 3.2 Define cellulitis, empyema, pyraemia. 3.3 Explain the formations of the conDSTions defined above. 3.4 Define bacteremia, septicemia 3.5 Define lymphangitis and lymphadenitis 3.6 Explain the differences between Lymphangitis and Lymphadenitis 3.7 Define gangrene, sequestrum, sinus and necrosis.					
General Objectives 4.0 Know the physical factors which causes injuries to the body						
	4.1 Explain the physical					

	<p>factors which cause injuries to the body mechanical thermal, electrical.</p> <p>4.2 Differentiate between the three different types of injuries on 4.1 above</p>					
General Objectives 5.0 - Biochemical Diseases						
	<p>5.1 Define biochemical processes</p> <p>5.2 List the biochemical processes that causes diseases</p> <p>5.3 Explain the effect of poisonous substances or harmful foreign bodies on the human body.</p> <p>5.4 Explain the role of dietary or nutritional disorders such as deficiency diseases and malnutrition.</p> <p>5.5 Explain the disorders of the endocrine glands and</p>					

	metabolism.					
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Programme: National Diploma in PROGRAMME: NATIONAL DIPLOMA IN DENTAL SURGERY TECHNOLOGY		
Course Title: DENTAL INSTRUMENTATION II	Code: DST 127	Credit Hour: 45HRS
	Pre-requisite:	Credit Unit:3
		Theoretical: hours/week
Year:1st Semester: 2nd		Practical : hours/week

Course main Goal: this course is designed to introduce the student to the use of advance dental instruments and equipment.

General Objectives: On the completion of the course, the student should be able to:
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- 1.0 Know simple care and maintenance of hand instruments used in dental surgery
- 2.0 Know the appropriate instruments for scaling and polishing of teeth
- 3.0 Know the instruments required for oral surgery procedures
- 4.0 Know the instruments and materials for impression taking
- 5.0 Know the uses of ultrasonic scalars (cavitron)

Programme: National Diploma in PROGRAMME: NATIONAL DIPLOMA IN DENTAL SURGERY TECHNOLOGY						
Course Title: DENTAL INSTRUMENTATION II			Code: 127		CH:3 CU:3	
General Objective 1.0 : Known simple care and maintenance of hand instruments used in dental surgery						
Week	Specific Learning Outcomes	Teacher’s Activities	Resources	Specific Learning Outcomes	Teacher’s Activities	Evaluation
1-2	1.1 Identify the hand instruments used in the dental surgery 1.2 Carry out simple maintenance of hand instruments identify in 1.2 above e.g sharpening, lubrication etc.					

	<p>1.3 Identify various items required for sharpening of hand instruments e.g Arkansa stones etc and lubricating oil.</p> <p>1.4 Explain the various principles of sharpening hand instruments e.g. lubricating of the Arkansas stones etc.</p> <p>1.5 Sharpen various dental instrument.</p> <p>1.6 Clean and sterilize hand instrument</p> <p>1.7. Preserve and store hand instruments</p>					
General Objectives 2.0 - Know the appropriate instruments for scaling and polishing of teeth						
	<p>2.1 Identify the appropriate instruments for gross scaling. E.g Jacquettes 1, 2 and 3, hoes, chisels, gross excavators etc.</p> <p>2.2 Demonstrate the application of the instruments mentioned in 1 above, appropriately.</p> <p>2.3 Identify the instruments for fine scaling e.g drum scalars, fine excavators, fine chisel, curettes, sickles etc.</p>					

	<p>2.4 Demonstrate the application of instruments mentioned in 4 above, appropriately.</p> <p>2.5 Identify the appropriate equipment for tooth polishing e.g dental units, dental chair, spot light etc.</p> <p>2.6 Identify the appropriate instruments for tooth polishing e.g contra-angled hand piece, bristle brushes-wheel and cup large.</p> <p>2.7 Identify the appropriate materials for tooth polishing e.g. pumice.</p> <p>2.8 Demonstrate the appropriate use of the equipment, instruments and materials in 5, 6 and 7 respectively</p>					
Objectivs 3.0 - Know the instruments required for oral surgery procedures						
	<p>3.1 Describe the characteristics of oral surgery instruments</p> <p>3.2 Classify oral surgery procedures with</p>					

	<p>appropriate instruments used in each.</p> <p>3.3 Identify instruments used for extraction e.g forceps.</p> <p>3.4 Differentiate between various types of extraction forceps i.e lower forceps and upper forceps, anterior and posterior forceps, adult ad paedo forceps.</p> <p>3.5 Differentiate between the various elevators.</p> <p>3.6 Identify an hypodermic syringe and the parts.</p> <p>3.7 Wash, sterilize and store extraction forceps, elevators and the hypodemic syringe.</p>					
General Objectives 4.0 - Know the instruments and materials for impression taking						
	<p>4.1 Classify the different impression materials.</p> <p>4.2 Identify the instruments</p>					

	<p>use for taking impression of the materials in 1 above.</p> <p>4.3 State the care and maintenance of the instruments in 2 above.</p>					
General Objectives 5.0- Know the uses of ultrasonic scalars (cavitron)						
	<p>5.1 Define an ultrasonic scalar</p> <p>5.2 Identify the accessories used with the ultrasonic scalars e.g interchangeable tip.</p> <p>5.3 Operate the ultrasonic scalar and its accessories</p> <p>5.4 Carry out simple maintenance on the ultrasonic scalar.</p> <p>5.6 List the advantages and disadvantages of ultrasonic scalar.</p>					
General Objectives 6.0- Know health care systems and team work						
	<p>6.1 Describe the development of Health Care services in the country before the new concept and with regards to National Development Plan.</p> <p>a. 1960 – 1975</p>					

- b. 1975 – 1985
- c. 1985 – 1995
- d. 1995 – present

6.2 Discuss the rationale and impact of each period in 1.4 (a-d) above on health care.

6.3 State the basic principles of PHC and note the strategy for implementation.

6.4 Explain the constraints of health services delivery in Nigeria noting cultural, socio-economic, environmental and personal factors.

6.5 List the various health care systems in the country e.g PHC SHC, THC

6.6 State the functions of each system listed above.

	<p>6.7 Define health team</p> <p>6.8 Describe the characteristics of health team.</p> <p>6.9 State the composition of health teams for each of the systems above.</p> <p>6.10 List the function of each health worker in each team above.</p> <p>6.11 State the advantages of health team.</p> <p>6.12 State the principles of intersectional approach.</p> <p>6.13 State the importance of intersectorial approach.</p>					
General Objective 7.0- Know the prevention and control or prevailing health problems.						
	<p>7.1 Define the following terms:</p> <p>a. Endemic disease</p> <p>b. Pandemic disease</p>					

	<p>c. Epidemic disease</p> <p>d. Identify endemic disease in Nigeria</p> <p>e. State the causative agents, mode of transmission and spread of endemic diseases listed above</p> <p>7.2 Identify the cultural factors or theories that encourages (endemic) in Nigeria</p> <p>f. Appraise the theories above</p> <p>g. Describe the general methods of prevention and control or endemic diseases e.g promotion of food supply, water supply, maternal and child health care, communication etc.</p>					
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	<p>7.3 Identify some non-communicable diseases in the community e.g diabetes, hypertension, sickle cell anaemia, cancer etc.</p> <p>7.4 Explain the significance of non-communicable diseases in OHC</p> <p>7.5 State how the theories in 2 above influence:</p> <ul style="list-style-type: none"> h. the acceptance of modern illness i. behavior during illness j. use of medication during illness k. attitude to prevention 					
General Objectives: 8.0 - Understand referral system in health care delivery						
	<p>8.1 Explain the concept of referral system in Health care delivery</p> <p>8.2 State the characteristics</p>					

	of referral system					
	8.3 Describe with the aid of the diagram the different routes in the referral system					
	8.4 State the objectives and advantages in the system.					

Programme: National Diploma in PROGRAMME: NATIONAL DIPLOMA IN DENTAL SURGERY TECHNOLOGY		
Course Title: INTRODUCTION TO MICROBIOLOGY	Code: STM 115	Credit Hour: 30
		Credit Unit:
	Pre-requisite:	Theoretical: hours/week
Year: 1ST Semester: 2ND		Practical : hours/week

Course main Goal: this course is designed to provide the student with a basic knowledge of disease-causing organisms in the oral cavity.

General Objectives: On the completion of the course, the student should be able to:

- 1.0 Know the types of microorganisms associated with oral cavity
- 2.0 Know the classification of micro – organisms associated with the oral cavity.
- 3.0 Understand the significance of the organisms of the oral cavity in the etiology of caries and periodontal disease.

Programme: National Diploma in PROGRAMME: NATIONAL DIPLOMA IN DENTAL SURGERY TECHNOLOGY						
Course Title: INTRODUCTION TO MICROBIOLOGY			Code: STM 115		CH:1 CU:1	
General Objective 1.0 : Know the types of micro- organisms associated with oral cavity						
Week	Specific Learning Outcomes	Teacher’s Activities	Resources	Specific Learning Outcomes	Teacher’s Activities	Evaluation
1-2	1.1 List the various types of micro organism found in the oral cavity 1.2 Describe the various types.					

	<p>1.3 Differentiate between each of the micro – organism.</p> <p>1.4 Explain the characteristics of each.</p>					
General Objectives 2.0 - Know the classification of micro-organism associated with the oral cavity.						
	<p>2.1 List the major classification of bacteria found in the mouth</p> <p>2.2 Describe each of the major classification in 1 above.</p> <p>2.3 list the various characteristics of bacteria listed in 1 above.</p> <p>2.4 Observe under microscope the bacterial listed in 1 above.</p>					
Objectives 3.0 - Understand the significance of the organizations of the oral cavity in the aetiology of caries and periodontal disease						
	<p>3.1 Define dental carries.</p> <p>3.2 State the role played by the bacteria listed above in dental caries,</p>					

	3.3 State the significance of these organisms listed above in periodontal disease.					
	3.4 Observe the stages of development of dental caries and periodontal lesions on wall chart.					

Programme: National Diploma in Dental Surgery Technology		
Course Title: Dental Health Care Practice I	Code: DST 128	Credit Hour: 3
		Credit Unit:3
	Pre-requisite:	Theoretical: 2 hours/week 2
Year: One Semester: Two		Practical : 1 hours/week 1

Course main Goal: this course is designed for student to understand dental health care of different age groups.

General Objectives: On the completion of the course, the student should be able to:

- 1.0 Understand the Dental Health care practice
- 2.0 Acquire knowledge of Pediatric dental care.
- 3.0 Acquire knowledge of Geriatric dental care.

4.0 Understand the management of a Dental Clinic.

	<p>2.1 Describe a geriatric patient</p> <p>2.2 Describe common health challenges in geriatric dental patients:</p> <ul style="list-style-type: none"> ● Gum recession ● Periodontitis ● High blood pressure ● Xerostomia ● Diabetics ● Osteomyelitis e.t.c. <p>2.3 Explain the steps</p>	<p>Explain the common health challenges in geriatric dental patients:</p> <ul style="list-style-type: none"> ● Gum recession ● Periodontitis ● High blood pressure ● Xerostomia ● Diabetics ● Osteomyelitis e.t.c. <p>Explain the steps involved in taking care of geriatric patients in the dental clinic.</p>			<p>Describe geriatric patient</p> <p>Describe common health challenges in geriatric dental patients.</p> <p>What are the steps involve in taking care of a geriatric patient in Dental clinic.</p>
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	<p>3.3 Explain the steps involved in the care of pediatric dental patients with special needs.</p> <ul style="list-style-type: none"> ● Autism e.t.c <p>3.4 Identify common dental diseases associated with pediatric patient</p> <ul style="list-style-type: none"> ● Rampant Dental Caries ● Gingivitis ● Malocclusion ● Trauma e.t.c 	<ul style="list-style-type: none"> ● Autism e.t.c <p>Explain the common dental diseases associated with pediatric patient</p> <ul style="list-style-type: none"> ● Rampant Dental Caries ● Gingivitis ● Malocclusion <p>Trauma e.t.c</p>				patient
General Objectives 4.0 Understand the management of a Dental Clinic.						
		Explain infection				What is Infection?

	4.1 Define infection	Explain the causes of infection.				Describe causes of infection
	4.2 List causes of infection	Explain disinfection and decontamination				Describe disinfection and decontamination.
	4.3 Explain disinfection and decontamination	Explain reception/admission of patients in dental clinic.				Describe reception/admission of patients in dental clinic.
	4.4 Describe reception/admission of patients in dental clinic.	Explain pre and post-operative care of patient in dental clinic.				Explain pre and post-operative care of patient in dental clinic.
	4.5 Describe pre and post-operative care of patient in dental clinic.					

PROGRAMMES: GENERAL STUDIES

COURSE TITLE: COMMUNICATION IN ENGLISH I

CODE: GNS 102

PREREQUISITE: GNS 101

DURATION: 2 HOURS PER WEEK (30 HOURS PER SEMESTER)

CREDIT UNITS: 2.0

SCHEDULE: 2ND SEMSTER

GOALS: This course is designed to enable students acquire the necessary communication skills, know the techniques of correspondence and comprehend written materials.

GENERAL OBJECTIVES:

On completion of the course the student should:

- 1.0 Understand the concept of communication.
- 2.0 Know how to make oral presentations.
- 3.0 Know the essential elements of correspondence.

4.0 Know the rules of comprehension and interpretation.

PROGRAMME: DENTAL SURGERY TECHNOLOGY [ND]						
COURSE:COMMUNICATION IN ENGLISH			COURSE CODE: GNS 102		CONTACT HOURS:2 hrs	
GOAL: This course is designed to enable students acquire the necessary communication skills, know the techniques of correspondence and comprehend written materials.						
COURSE SPECIFICATION: Theoretical Contents:				Practical Contents:.		
	General Objective: 1.0 Understand the concept of communication.					
WEEK	Specific Learning Objective Theory	Teachers Activities	Learning Resources	Specific Learning Objective	Teachers Activities	Learning Resources
1	1.1 Define communication. 1.2 Analyze the process of communication.	<ul style="list-style-type: none">Define communication.Analyze the process of communication.	<ul style="list-style-type: none">	<ul style="list-style-type: none">	<ul style="list-style-type: none">	
2	1.3 Analyse the purposes of communication. 1.4 Explain the relationship between communication and language.	<ul style="list-style-type: none">Analyse the purposes of communication.Explain the relationship between communication and language.	<ul style="list-style-type: none">	<ul style="list-style-type: none">	<ul style="list-style-type: none">	

3	<p>1.5 Explain the impact of interference on communication at various levels, e.g. phonological, syntactic, etc.</p> <p>1.6 Explain code-mixing, code-switching and dissonance in communication.</p>	<ul style="list-style-type: none"> Explain the impact of interference on communication at various levels, e.g. phonological, syntactic, etc. Explain code-mixing, code-switching and dissonance in communication. 	•	•	•	
	General Objectives: 2.0 Know how to make oral presentations.					
WEEK	Specific Learning Objective Theory	Teachers Activities	Learning Resources	Specific Learning Objective	Teachers Activities	
4	<p>Oral Presentations</p> <p>2.1 Label a diagram of the organs of speech.</p> <p>2.2 Describe the functions of the organs in 2.1 above in speech production.</p>	<ul style="list-style-type: none"> Label a diagram of the organs of speech. Describe the functions of the organs in 2.1 above in speech production. 				
5	<p>2.3 List the phonemes of English.</p> <p>2.4 Produce correctly each of the phoneme listed in 2.3 above.</p>	<ul style="list-style-type: none"> List the phonemes of English. Produce correctly each of the phoneme listed in 2.3 above. 				

6	2.5 Pronounce correctly by making distinctions between the different sound contrast in the consonantal and vowel systems of English.	<ul style="list-style-type: none"> Pronounce correctly by making distinctions between the different sound contrast in the consonantal and vowel systems of English. 				
7	2.6 Explain the principles of effective speaking, viz, correct use of stress, rhythm, and intonation patterns. 2.7 Read fluently.	<ul style="list-style-type: none"> Explain the principles of effective speaking, viz, correct use of stress, rhythm, and intonation patterns. Read fluently. 				
	General Objectives: 3.0 Know the essential elements of correspondence.				General Objectives:	
WEEK	Specific Learning Objective Theory	Teachers Activities	Learning Resources	Specific Learning Objective	Teachers Activities	Learning Resources
8	Correspondence 3.1 List the various type of correspondence, e.g. letter, memo, circular, etc. 3.2 Explain the various parts of a letter.	<ul style="list-style-type: none"> List the various type of correspondence, e.g. letter, memo, circular, etc. Explain the various parts of a letter. 				-
9	3.3 Differentiate between formal and informal letter formats. 3.4 Explain the characteristics of styles suitable for formal and informal	<ul style="list-style-type: none"> Differentiate between formal and informal letter formats. Explain the characteristics of styles suitable for 				

	letters.	formal and informal letters.				
10	3.5 Explain the functions of the first, middle and last paragraph. 3.6 Write a formal and an informal letter.	<ul style="list-style-type: none"> Explain the functions of the first, middle and last paragraph. Write a formal and an informal letter. 				
	General Objectives: 4.0 Know the rules of comprehension and interpretation.				General Objectives:	
WEEK	Specific Learning Objective Theory	Teachers Activities	Learning Resources	Specific Learning Objective	Teachers Activities	Learning Resources
11	4.1 Identify main ideas in a given passage. 4.2 Differentiate the main ideas from the details in a passage.	<ul style="list-style-type: none"> Identify main ideas in a given passage. Differentiate the main ideas from the details in a passage. 	•			
12	4.3 Use the main idea to anticipate specific details in a passage. 4.4 Use context clues to aid comprehension.	<ul style="list-style-type: none"> Use the main idea to anticipate specific details in a passage. Use context clues to aid comprehension. 	•			
13	4.5 Identify relationship patterns of ideas in a passage. 4.6 Use context clues such as definitions, restatements and examples to derive meaning.	<ul style="list-style-type: none"> Identify relationship patterns of ideas in a passage. Use context clues such as definitions, restatements and examples to derive 	•			

		meaning.				
14	4.7 Explain how affixes modify meanings. 4.8 Interpret figurative language in a passage.	<ul style="list-style-type: none"> • Explain how affixes modify meanings. • Interpret figurative language in a passage. 	•			
15	4.9 Draw conclusions from available information.	<ul style="list-style-type: none"> • Draw conclusions from available information. 	•			

Programme: National Diploma in PROGRAMME: NATIONAL DIPLOMA IN DENTAL SURGERY TECHNOLOGY		
Course Title: PHARMACOLOGY II	Code: DST 211	Credit Hour: 30 Credit Unit:2

	Pre-requisite:	Theoretical: 1 hours/week
Year: SECOND Semester: FIRST		Practical : 1 hours/week

Course main Goal: The course is designed to provide the student with the knowledge of drugs needed in dental surgery.

General Objectives: on the completion of the course, the student should be able to:

1.0 Know the various drug groupings.

2.0 Know Drug Management

3.0 Understand complications of drug usage

Programme: National Diploma in PROGRAMME: NATIONAL DIPLOMA IN DENTAL SURGERY TECHNOLOGY						
Course Title: PHARMACOLOGY			Code: DST 211		CH:30 CU:2	
General Objective 1.0 : Know the various Drug Groupings.						
Week	Specific Learning Outcomes	Teacher’s Activities	Resources	Specific Learning Outcomes	Teacher’s Activities	Evaluation
1-2						

	<p>1.0 Identify the various drugs grouping e.g.</p> <p>Anelgesic ,</p> <p>Disinfectants (antiseptic) ,</p> <p>Demulcents,</p> <p>Obtundents, Haemostic (Stytics), Astringents,</p> <p>Emetics, Stimulants ,</p> <p>Irritants, Aniline,</p> <p>sedatives, Narcotics,</p> <p>Hypnotic, Caustics,</p> <p>Antihistamines,</p> <p>Antibiotics,</p> <p>Sulphonamides,</p> <p>Anaesthetics etc</p> <p>1.2 Differentiate between the groups above</p> <p>1.3 Identify at least two (2) examples of commonly used in each group above.</p>					
General Objectives 2.0 Know Drug Management						
	2.1 Classify dangerous					

	<p>drugs as per dangerous Drug Acts of Nigeria (DDAN)</p> <p>2.2 Carry out proper storage of drug</p> <p>2.3 Prescribe simple drugs</p> <p>2.4 Carry out proper labeling of simple drugs</p>					
Objectives 3.0 Understand complications of drug usage.						
	<p>3.1 Define drug complications</p> <p>3.2 Identify reactions due to drug complications</p> <p>3.3 Explain the management of the reactions above.</p>					

Programme: National Diploma in PROGRAMME: NATIONAL DIPLOMA IN DENTAL SURGERY TECHNOLOGY		
Course Title: DENTAL RADIOGRAPHY I	Code: DST 212	Credit Hour: 3 Credit Unit:3
	Pre-requisite:	Theoretical: 2 hours/week
Year: SECOND Semester: FIRST		Practical : 1 hours/week

Course main Goal: this course is

General Objectives: On the completion of the course, the student should be able to:

- 1.0 know the principles dental radiographic techniques, hazards and relevant regulations.
- 2.0 Understand use of equipment and materials in dental radiography
- 3.0 Understand processing of intra oral x-rays

4.0 Know the uses of Chemicals used in X-ray Processing.

5.0 Know the Causes of faults in Dental Radiograph

Programme: National Diploma in PROGRAMME: NATIONAL DIPLOMA IN DENTAL SURGERY TECHNOLOGY						
Course Title: DENTAL RADIOGRAPHY I			Code:DST 212		CH:3 CU:3	
General Objective 1.0 know the principles dental radiographic techniques, hazards and relevant regulations.						
Week	Specific Learning Outcomes	Teacher's Activities	Resources	Specific Learning Outcomes	Teacher's Activities	Evaluation
1-2	1.1 The radiographic image and the factors affecting it 1.2 Biologic effects and risks associated with x-rays 1.3 Radiation protection.					
General Objectives 2.0 0 Understand use of equipment and materials in dental radiograph.						

	2.1 Periapical x-rays					
	2.2 Bitewing					
	2.3 Occlusal dental panoramic tomography.					
Objectives 3.0 .0Understand processing of intra oral x-rays						
	3.1 Dental x-ray generating equipment					
	3.2 The radiographic film					
	3.3 Processing of films					
Objective 4.0 Know the uses of Chemicals used in X-ray Processing						
Objective 5.0 Know the Causes of faults in Dental Radiograph.						

Programme: National Diploma in PROGRAMME: NATIONAL DIPLOMA IN DENTAL SURGERY TECHNOLOGY		
Course Title: PRIMARY HEALTH CARE	Code: DST 213	Credit Hour: 45 Credit Unit:3
	Pre-requisite:	Theoretical: hours/week 1
Year: SECOND Semester: FIRST		Practical : hours/week 1

Course main Goal: this course is designed to Introduce the students to the concept of primary health care delivery system.

General Objectives:

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

- 1.0 Understand the concept of Primary Health Care (PHC) its components and objectives.
- 2.0 Know health care systems and team work
- 3.0 Know the prevention and control of prevailing health problems
- 4.0 Understand referral system in health care delivery

	4.1 Explain referral system in Health Care.					
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Programme: National Diploma in PROGRAMME: NATIONAL DIPLOMA IN DENTAL SURGERY TECHNOLOGY		
Course Title: DENTAL INSTRUMENTATION	Code: DST 214	Credit Hour: 3

III		Credit Unit:3
	Pre-requisite:	Theoretical: 2 hours/week 1
Year: SECOND Semester: FIRST		Practical : 1 hours/week 1

Course main Goal: this course is designed to introduce the students to the use of advance dental instruments and equipment.

General Objectives: On the completion of the course, the student should be able to:

1. Know the instruments and materials used for conservatives' procedures
2. Know the instruments and materials required for prosthetics
3. Understand armamentarium for orthodontics
4. Understand Sterilization and Asepsis in Dental Operatory.

Programme: National Diploma in PROGRAMME: NATIONAL DIPLOMA IN DENTAL SURGERY TECHNOLOGY

Course Title: DENTAL INSTRUMENTATION III

Code: DST 214

CH:3 CU:3

General Objective 1.0 Know the Instruments and Materials used in Endodontics.

Week	Specific Learning Outcomes	Teacher's Activities	Resources	Specific Learning Outcomes	Teacher's Activities	Evaluation
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1-2	<p>1.1 Identify the instruments and materials used in endodontics.</p> <p>1.2 state the characteristic of instruments used in endodontics</p> <p>1.3 classify the different endodontics procedures with the instruments and materials used in each</p> <p>1.4 state the specific names and uses of the instruments and materials in 2.1 above.</p> <p>1.4 Explain the sterilization methods of the various instruments and materials in 1.3 above</p> <p>1.5 Sterilize and store instruments in 1.2 above.</p>					
General Objectives 2.0 Know the instruments and materials required for prosthetics.						
	<p>2.1 Identify the instrument required for temporary filling</p> <p>2.2 Differentiate between various types of filling instruments e.g. excavators (assorted), spatulas, glass slab, tweezers etc.</p> <p>2.3 Explain the sterilization, care and maintenance of</p>					

	<p>instruments in 2.2 above</p> <p>2.4. Classify the different conservative procedures e.g. Amalgam filling, Silicate restoration, Composite, Acrylic resin, porcelain etc.</p> <p>2.5 Identify the instruments and materials required for the procedures mentioned in 2.4 above</p> <p>2.5 Identify the instruments and materials required for polishing amalgam</p> <p>2.6 Explain the sterilization method, care and maintenance of instruments and materials in 2.5 and 2.6 above.</p>					
Objective 3.0 Understand armamentarium for orthodontics						
	<p>3.1 Identify the various instruments and materials required for partial and full-full dentures preparation.</p> <p>3.2 differentiate between various instruments and materials required for the different procedures in 3.1 above</p> <p>3.3 Explain the sterilization</p>					

	methods, care and maintenance of instruments and materials in 3.2 above.					
General Objectives 4.0 Understand armamentarium for orthodontics.						
	<p>4.1 Classify different orthodontics procedures e.g. Treatment of malocclusion, fracture of mandible/maxilla etc.</p> <p>4.2 Identify the instruments and materials required for procedures in 4.1 above</p> <p>4.3 state the specific instruments in 4.2 above</p> <p>4.4 Describe the care and maintenance of the instruments and materials in 4.3 above.</p>					
General Objectives 5.0 Understand Sterilization and Asepsis in Dental Operatory.						
	<p>5.1 Classify the different sterilization methods in dental practice</p> <p>5.2 Select instruments and materials for the various sterilization methods in 5.1 above</p> <p>5.3 Explain the care and maintenance of sterilization equipment e.g. autoclave, hot</p>					

	air oven etc.					
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Programme: National Diploma in PROGRAMME: NATIONAL DIPLOMA IN DENTAL SURGERY TECHNOLOGY		
Course Title: STERILIZATION AND INFECTION CONTROL	Code: DST 215	Credit Hour: 30 Credit Unit:2
	Pre-requisite:	Theoretical: 1 hours/week
Year: SECOND Semester: FIRST		Practical : 1 hours/week

Course main Goal: this course is designed to equip the students with knowledge and skills of Sterilization and Infection Control in Dentaln Care.

<p>General Objectives: On the completion of the course, the student should be able to:</p> <p>1.0 Recognize methods of sterilization of instrument/equipment</p> <p>2.0 Apprehend facilities used in sterilization.</p> <p>3.0 Appreciate reasons for sterilization</p> <p>4.0 Recognize the five basic Principles for infection;</p> <p>5.0 Recognize the importance of infection control;</p>
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- 6.0 Recognize the rules of dental surgery in infections control
- 7.0 Recognize the role of dental surgery in infectious diseases.

Programme: National Diploma in PROGRAMME: NATIONAL DIPLOMA IN DENTAL SURGERY TECHNOLOGY						
Course Title: STERILIZATION AND INFECTION CONTROL			Code:DST 215		CH:2 CU:2	
General Objective 1.0 Recognize methods of sterilization of instrument/equipment						
Week	Specific Learning Outcomes	Teacher’s Activities	Resources	Specific Learning Outcomes	Teacher’s Activities	Evaluation
1-2	1.1 Define Sterilization 1.2 List different methods of Sterilization. 1.3 Describe the methods used in 1.2 above. 1.3 Contagious disease should be isolated 1.5 Maintain personal hygiene					

	1.6 Environmental cleanliness 1.7 Screening and cohorting patient VII. Surveillance					
General Objectives 2.0 Apprehend facilities used in sterilization.						
	1. Keeping the clinic clean.					
General Objective 3.0 Appreciate reasons for sterilization						
	Universal Precautions this apply to blood, all body fluids, secretions, excretions and mucous membrane 1. Signs of Inflammation 2. Direct and indirect contact 3. Materials used for sterilization 4. Importance of the materials stated above.					
General Objectives 4.0 Recognize the five basic Principles for infection.						

General Objectives 5.0 Recognize the importance of infection control;						
General Objectives 6.0 Recognize the rules of dental surgery in infections control						
General Objectives 7.0 Recognize the role of dental surgery in infectious diseases.						

Programme: National Diploma in PROGRAMME: NATIONAL DIPLOMA IN DENTAL SURGERY TECHNOLOGY		
Course Title: ORAL HEALTH EDUCATION	Code: DST 211	CreDST Hour: 45 HOURS CreDST Unit: 3
	Pre-requisite:	Theoretical: hours/week
Year: 2 Semester: Second		Practical : hours/week

Course main Goal: this course is

General Objectives:

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

- 1.0 Understand oral physiotherapy and mechanism involved in cleaning the mouth.
- 2.0 Know the various types of tooth-brushes
- 3.0 Know the composition of dentifrice
- 4.0 Know the various tooth brushing methods
- 5.0 Know the traditional methods of cleaning the teeth
- 6.0 Know other cleaning agents for the tooth
- 7.0 Know the effects of mouth rinsing and irrigation
- 8.0 Know problems associated with oral hygiene.

Programme: National Diploma in PROGRAMME: NATIONAL DIPLOMA IN DENTAL SURGERY TECHNOLOGY						
Course Title: ORAL HEALTH EDUCATION			Code: DST 211		CH:3 CU:3	
General Objective 1.0 : Oral Physiotherapy and Mechanisms						
Week	Specific Learning Outcomes	Teacher’s Activities	Resources	Specific Learning Outcomes	Teacher’s Activities	Evaluation
1-2	1. Define oral physiotherapy 2. Outline the history of dentistry 3. State the objectives of oral physiotherapy 4. Describe physiotherapy cleaning mechanisms giving three examples of the mechanism e.g. tooth brushing, natural and traDSTional method. 5. Define gingivae (gum)					

	message 6. State the benefits of gingivae message					
General Objectives 2.0 Types of Tooth Brushes						
	1. List the desirable characteristics of a tooth brush, including its handle, head and bristles. 2. Identify the preferred brushing plane for a tooth brush. 3. State the disadvantages of an uneven brushing plane 4. Identify the properties of natural and nylon bristles for tooth brushes.					
Objectivs 3.0 Composition of the dentifrice						
	1. List the composition of the dentifrice 2. Identify the composition of dentifrices e.g. abrasive, solvent, detergents, fillers, flavoring, chemical adDSTives. 3. List the uses of the components					

	identified composition of dentifrices above.					
General Objectives 4.0 Tooth Brushing Methods						
	<ol style="list-style-type: none"> 1. Describe the various tooth brushing methods, e.g. Press-roll techniques, Modified Stillman, Bass, Charters, Vertical or Horizontal. 2. Apply each method listed in method of tooth brushing above 3. Describe the advantages of each method listed above, 4. Differentiate between the electric and manual tooth brushes 5. Identify areas that require emphasis during tooth brushing 6. Explain the effects of improper brushing 7. Explain the corrective measures to adopt in solving problems identified in methods of tooth brushing above 					

	8. Describe the care of the tooth brush.					
General Objectives 5.0 TraDSTional Method of Teeth Cleaning						
	<p>5.1 Describe the traditional method of tooth cleaning e.g. chewing sticks, charcoals, ashes, broken plates, finger, fine sand, soap.</p> <p>5.2 Identify the advantages and disadvantages of the traDSTional cleaning agents.</p> <p>5.3 Identify the acceptable traDSTional cleaning agents</p> <p>5.4 Apply the cleaning agents listed in traDSTional methods of teeth cleaning.</p>					
General Objective 6.0 Other Cleaning Agents of Teeth						
	<p>6.1 Identify other teeth cleaning agents e.g. wood points, interdents, floss silk, port polishing, polishing strip.</p> <p>6.2 Describe the specific uses of cleaning agents mentioned above</p> <p>6.3 State the advantage</p>					

	and disadvantages agents mentioned above.					
General Objective 7.0 Mouth Rinsing and Irrigation						
	<p>7.1 Explain the objectives for mouth rinsing and irrigation</p> <p>7.2 Differentiate between mouth rinsing and irrigation</p> <p>7.3 State indications for mouth rinsing and irrigation</p> <p>7.4 List the purpose and uses of a mouth solution</p> <p>7.5 Explain the uses, advantages and contra indications for Anti-bacterial agents, Oxygenating agents, Astringents, Deodorizing, Anodyne etc.</p> <p>7.6 Define disclosing agent</p> <p>7.7 State the purpose of disclosing agent.</p>					
General Objectives: 8.0 Some Oral Hygiene Related Problems						
	<p>8.1 Identify common oral hygiene related problems e.g. mouth odor (Halitosis), gum bleeding, caries. Sensitivity, oral ulcerations etc.</p>					

	8.2 Explain the causes for related problems above 8.3 Identify oral hygiene aids to solve the related problems above.					
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Programme: National Diploma in			PROGRAMME: NATIONAL DIPLOMA IN DENTAL SURGERY TECHNOLOGY		
Course	Title:	RESTORATIVE DENTISTRY I	Code: DST 217	CreDST Hour: 45 Hours	
				CreDST Unit: 3	
			Pre-requisite:	Theoretical: hours/week	
Year: 2	Semester: Second			Practical : hours/week	

Course main Goal: this course is

General Objectives:

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

- 1.0 know the management of dental caries and tooth wear lesions.
- 2.0 Understand the management of caries, tooth wear lesions and their prevention.
- 3.0 Identify instruments used in restorative dentistry
- 4.0 manipulate Biomaterials used in restorative dentistry.

Programme: National Diploma in PROGRAMME: NATIONAL DIPLOMA IN DENTAL SURGERY TECHNOLOGY						
Course Title: RESTORATIVE DENTISTRY I			Code: DST 217		CH:3 CU:3	
General Objective 1.0 : Dental Diseases						
Week	Specific Learning Outcomes	Teacher’s Activities	Resources	Specific Learning Outcomes	Teacher’s Activities	Evaluation
1-2	1. Dental caries aetiology, management and prevention 2. Tooth wear lesions aetiology, management and prevention 3. Dental fluorosis					

	4. Dental hypoplasia and hyocalcification.					
General Objectives 2.0 Hand instruments used in restorative dentistry						
	1. Dental engines, hand pieces. 2. Aspirator and their maintenance 3. Hand instruments in operative dentistry 4. Burs and endodontics instruments.					
Objectivs 3.0 Tooth Fracture						
	1. Causes 2. Classification 3. Management					

Programme: National Diploma in PROGRAMME: NATIONAL DIPLOMA IN DENTAL SURGERY TECHNOLOGY		
Course Title: ORAL AND MAXILLOFACIAL SURGERY	Code: DST 218	CreDST Hour: 45 Hours CreDST Unit: 3
	Pre-requisite:	Theoretical: hours/week
Year: 2 Semester: First		Practical : hours/week

Course main Goal: this course is

General Objectives:

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

- 1.0 Provide efficient chair side support during Maxillo-Facial Surgery
- 2.0 Set tray with appropriate instruments for any of the minor procedures.
- 3.0 Recognize intra-operative complications and provide effective chair side support to the operator.
- 4.0 Give adequate and effective post-operative instructions

Programme: National Diploma in PROGRAMME: NATIONAL DIPLOMA IN DENTAL SURGERY TECHNOLOGY						
Course Title: ORAL AND MAXILLOFACIAL SURGERY			Code: DST 218		CH:3 CU:3	
General Objective 1.0 : Minor Surgery						
Week	Specific Learning Outcomes	Teacher’s Activities	Resources	Specific Learning Outcomes	Teacher’s Activities	Evaluation
1-2	<div>1. Instruments used in minor oral surgery</div> <div>2. Impacted teeth</div> <div>3. Surgical teeth</div> <div>4. Surgical endodontics</div>					

	5. Incision and drainage					
	6. Biopsy techniques					
General Objectives 2.0 Trauma						
	1. Dento-Aveolar Fracture					
	2. Mandibular fracture					
	3. Maxillary fracture					
	4. Zygomatic complex fracture					
	5. Nasal fracture					
Objectives 3.0 Major Oral Surgery						
	1. Preoperative preparation for major oral surgery					
	2. Trans operative and post-operative complications associated with major oral surgery					
	3. Recovery of patients from anaesthesia					
General Objectives 4.0 Practical Theater Assisting						
	1. Brief History of an Operating theatre					
	2. Types of an Operating theatre					

	3. Sections of an Operating Theatre 4. Sections of an Operating Theatre 5. Lounge 6. Operating Room 7. Recovery Room 8. Intensive Care unit 9. Modes of infections in the theatre and their control 10. Modes of infections 11. Direct contact from staff or spectator 12. Theatre Air 13. Contaminated Instruments 14. Poor Ventilation 15. Too many People 16. Control of mode of spread 17. Design of the theatre 18. Location of the theatre 19. Sterilization Room 20. Ventilation System in the theatre 21. Filtration system 22. Instrument Sterilization 23. Theatre Attire					
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	24. Equipment used in an Operating Theatre 25. Anesthetic Machine 26. Instrument Trolley 27. Drip Stand 28. Suction Machine 29. Cylinders for Oxygen and Nitrous Oxide.					
General Objectives 5.0 Principles of Wound Management						
	1. Definition of Wounds 2. Types of Wounds 3. Principles of Management 4. Infections in Dental Practice 5. Source of Infection 6. Route of Cross infection 7. Types of Cross Infection 8. Modes of Control of Infection.					
General Objective 7.0 Precautions before taking General Anesthesia						
	1. Physiological problems (age, pregnancy, psychological difficulties) 2. Pathological Problems					

	3. Cardiovascular Disorders 4. Hematological Disorder 5. Endocrine and Metabolic Disorder 6. Disorders of the Kidney.					
General Objectives: 8.0 Blood Borne Pathogens						
	1. Hepatitis B Virus 2. Hepatitis C Virus 3. HIV					
General Objectives: 9.0 Perioperative Nursing Care						
	1. Preoperative Phase 2. Intra-Operative Phase 3. Post-Operative Phase					

PROGRAMME: NATIONAL DIPLOMA DENTAL SURGERY TECHNOLOGY			
COURSE: INTRODUCTION TO PSYCHOLOGY			
CODE: GNS 213			
DURATION (Hours/Week) 2hrs	Tutorial: 0	Practical: - 0	Total: 3 (30hrs/semester)
UNITS: 2			
GOAL: This course is designed to enable the student to understand the dynamics of human behavior in order to be able to adjust to situations and work effectively with others.			
GENERAL OBJECTIVES: On completion of the Course, students should be able to:-			

- 1 Appreciate the basis of human behaviour.
- 2 Know the development of behaviour.
- 3 Understand the principles of personality development.
- 4 Know the processes of learning.
- 5 Understand human memory.
- 6 Understand human emotions.
- 7 Comprehend the processes of attitude formation and change.
- 8 Know the psychological basis of management models in industries and organizations.
- 9 Understand the psychology of other nationals.
- 10 Know the psychological effects of health.
- 11 Know the methods of assessment in experimental psychology

PROGRAMME: DENTAL SURGERY TECHNOLOGY (NATIONAL DIPLOMA)						
COURSE: Introduction to Psychology Course Code: GNS 213 Contact Hours: 30Hours						
COURSE SPECIFICATION: Theoretical Content: 2 Practical Content: 0						
General Objective 1: Appreciate the basis of human behaviour.						
Specific Learning Objectives	Teachers Activities	Learning Resources	Specific Learning Objectives	Teachers Activities	Learning Resources	Evaluation
1.1 Define Psychology 1.2 Outline or trace the development of psychology as efforts to discuss human behaviour. 1.3 Discuss methods of studying human behaviour e.g. testing, experimentation, case-study, etc. 1.4 Analyse the interplay between psychology and other social	Teach the student on the basis and development of human behaviour.	Textbooks, audio visuals aids.				<ul style="list-style-type: none"> • Assignment • Class Test • Presentation Examination

2.6	Describe perception.						
General Objective 3: Understand the principles of personality development.							
Specific Learning Objectives		Teachers Activities	Learning Resources	Specific Learning Objectives	Teachers Activities	Learning Resources	Evaluation
3.1	State models of personality.	Explain the principles of personality development.	Textbooks, audio visuals aids.	3.5			<ul style="list-style-type: none">• Assignment• Class Test• Presentation Examination
3.2	Explain conflict model.						
3.3	Examine the consistency model.						
3.4	Describe behaviorism.						
General Objective 4: Know the processes of learning.							
Specific Learning Objectives		Teachers Activities	Learning Resources	Specific Learning Objectives	Teachers Activities	Learning Resources	Evaluation
4.1	Define learning.	Explain the processes of learning.	Textbooks, audio visuals aids.	-			<ul style="list-style-type: none">• Assignment• Class Test• Presentation Examination
4.2	List types of learning.						
4.3	State methods of learning						
General Objective 5: Understand human memory.							
Specific Learning		Teachers	Learning	Specific Learning	Teachers	Learning	Evaluation

Objectives		Activities	Resources	Objectives	Activities	Resources	
5.1	Examine short-term memory.	Explain human memory and emotions.	Textbooks, audio visuals aids.				
5.2	Explain long-term memory.						
5.3	Define forgetting.						
General Objective 6: Understand human emotions							
Specific Learning Objectives		Teachers Activities	Learning Resources	Specific Learning Objectives	Teachers Activities	Learning Resources	Evaluation
6.1	Define emotions.	Explain human emotions.	Textbooks, audio visuals aids.				
6.2	Define types of emotions.						
6.3	Explain casual factors of emotions.						
6.4	Examine expressions of emotions.						
General Objective 7: Comprehend the processes of attitude formation and change.							
Specific Learning Objectives		Teachers Activities	Learning Resources	Specific Learning Objectives	Teachers Activities	Learning Resources	Evaluation
7.1	Describe development of attitude.	Explain the process	Textbooks, audio				

8.5	Explain psychological models of management (autocratic, democratic and laissez faire).						
General Objective 9: Understand the psychology of other nationals.							
	Specific Learning Objectives	Teachers Activities	Learning Resources	Specific Learning Objectives	Teachers Activities	Learning Resources	Evaluation
9.1	Describe the psychology of Western Nations – USA, UK Germany, etc.	Explain the psychology of other nationals.	Textbooks, audio visuals aids.				
9.2	Examine the psychology of Eastern Bloc- USSR China, etc.						
9.3	Describe the psychology of Third World countries –						
9.4	afro-Asian						

9.5	people. Analyse the psychology of international negotiations						
General Objective 10: Know the psychological effects of health.							
	Specific Learning Objectives	Teachers Activities	Learning Resources	Specific Learning Objectives	Teachers Activities	Learning Resources	Evaluation
10.1	Describe hypertension	Explain the psychological effects of health	Textbooks, audio visuals aids.				
10.2	Explain coronary heart diseases.						
10.3	Describe defence mechanisms.						
10.4	State anxiety neurosis.						
10.5	Explain fatigue, frustration and interest						
10.6	Examine psycho-social factors in health (poverty, hunger).						
10.7	List coping, mechanisms (relaxation,						

therapy, behaviour modification).						
General Objective 11: Know the methods of assessment in experimental psychology						
Specific Learning Objectives	Teachers Activities	Learning Resources	Specific Learning Objectives	Teachers Activities	Learning Resources	Evaluation
11.1 Explain reaction time 11.2 Identify achievement motivation. 11.3 Explain interviewing. 11.4 List psychological assessment tools (TAT, Rorschach test, Bio-feedback Tachistoscope).	Describe psychological assessment tools.	Textbooks, audio visuals aids.	11.5			

COURSE TITLE: COMMUNICATION IN ENGLISH II
CODE: GNS 202
PREREQUISITE: GNS 201
DURATION: 2 HOURS PER WEEK (30 HOURS PER SEMESTER)

CREDIT UNITS: 2.0

SCHEDULE: 2ND SEMESTER

GOAL(S): This course is designed to equip the student with the necessary level of competence and proficiency to enable him adapt to his professional environment. At the end of this course, the student should be able to communicate clearly and effectively in both general and specific situations.

GENERAL OBJECTIVES: On completion of this course the student should:

- 1.0 Understand registers
- 2.0 Understand the principle of correspondence
- 3.0 Know how to apply the principle of writing for publication.
- 4.0 Know how to write a report.

	General Objective: 1.0 Understand registers			General Objective:		
WEEK	Specific Learning Objective	Teachers Activities	Learning Resources	Specific Learning Objective	Teachers Activities	Learning Resources
1	On completion of this course the student should: Registers 1.1 Explain registers	Registers 1.1 Explain registers 1.2 Explain factors				

	1.2 Explain factors influencing register, viz., field (profession, mode (speech or writing), tenor (relationship between the interacting parties)	influencing register, viz., field (profession, mode (speech or writing), tenor (relationship between the interacting parties)				
2	1.3 List some items of register peculiar to different professions 1.4 Identify items of register in a given passage	1.3 List some items of register peculiar to different professions 1.4 Identify items of register in a given passage				
3	1.5 State appropriate uses of jargon.	1.5 State appropriate uses of				

		jargon.				
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	General Objective: 2.0 Understand the principle of correspondence					
WEEK	Specific Learning Objective	Teachers Activities	Learning Resources	Specific Learning Objective	Teachers Activities	Learning Resources
3	Correspondence 2.1 Describe different types of business letters, e.g. applications, enquiries, invitations and complaints, with their replies	Correspondence 2.1 Describe different types of business letters, e.g. applications, enquiries, invitations and complaints, with their replies				
4	2.2 Use suitable language for a specific type of letter	2.2 Use suitable language for a specific type of letter				

5	2.3 Write the letters listed in 2.1 above.	2.3 Write the letters listed in 2.1 above.				
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	General Objective: 3.0 Know how to apply the principle of writing for publication.					
WEEK	Specific Learning Objective	Teachers Activities	Learning Resources	Specific Learning Objective	Teachers Activities	Learning Resources
6	Writing for Publication 3.1 Explain techniques of writing for publication	Writing for Publication 3.1 Explain techniques of writing for publication				
7	3.2 Write essays on topical and current issues 3.3 Analyse published essays of literary value	3.2 Write essays on topical and current issues 3.3 Analyse published essays of literary value				

8	3.4 Evaluate the development of ideas in a given article	3.4Evaluate the developme nt of ideas in a given article				
9	3.5Write good articles for publication	3.5 Write good articles for publication				

	General Objectives: 4.0 Know how to write a report.					
WEEK	Specific Learning Objective	Teachers Activities	Learning Resources	Specific Learning Objective	Teachers Activities	Learning Resources
10	Reports 4.1 Define a report 4.2 List the types of report	Reports 4.1Define a report 4.2List the types of report				
11	4.3Enumerate uses of reports	4.3 Enumerate uses of reports				
12	4.4 List the characteristics of a good report	4.4List the characteristics of a				

		good report				
13	4.5Outline the stages of writing a report	4.5 Outline the stages of writing a report				
14	4.6 Evaluate a given report	4.6Evaluate a given report				
15	4.7Write a report	4.7 Write a report				
	5.0 Know how to write a report.	5.1 Write a report				

PROGRAMME: DENTAL SURGERY TECHNOLOGY (NATIONAL DIPLOMA)				
COURSE TITLE : RESEARCH METHODS				
COURSE CODE: GNS 228				
DURATION (Hours/Week)	Lecture: 2hrs	Tutorial: 0	Practical: - 0	Total: (30hrs)
UNITS: 2				

GOAL:	This course is designed to enable the students carry out independent research projects.
GENERAL OBJECTIVES:	On completion of this course, the student should be able to:
1.0	Understand the meaning and scope of a library.
2.0	Know how to use a library
3.0	Know what a research is and how to carry it out
4.0	Understand basic principles of probability
5.0	Understand the use and importance of some measures of central tendency and measures of dispersion in summarizing data
6.0	Know the methodology applied in research
7.0	Know the various methods of data collection
8.0	Know the various methods of processing data
9.0	Understand the presentation of research report.

PROGRAMME:	DENTAL SURGERY TECHNOLOGY (NATIONAL DIPLOMA)					
COURSE:	Introduction to Research Methods	Course Code:	GNS 228	Contact Hours:	30	
COURSE SPECIFICATION:	Theoretical Content: 2	Practical Content:	0			
General Objective: 1: Understand the meaning and scope of a library.						
Specific Learning Objectives	Teachers Activities	Learning Resources	Specific Learning Objectives	Teachers Activities	Learning Resources	Evaluation
1.1 Explain a Library						
1.2 Explain the role of a library in learning and research						

1.3	State the various kinds of library stock.					
1.4	Identify the different sections of a typical library.					
1.5	Explain the different types of libraries.					
General Objective: 2: Know how to use a library						
Specific Learning Objectives		Teachers Activities	Learning Resources	Specific Learning Objectives	Teachers Activities	Learning Resources
2.1	Explain classification.					
2.2	Explain the different types of classification scheme (DDC and LC).					
2.3	Identify reference sources.					
2.4	Identify types of serials.					
2.5	Explain indexing and abstracting.					
2.6	Describe the use of card catalogues.					
2.7	Explain back of book indexes.					
2.8	Describe how the library is used in research					
General Objective: 3: Know what is a research and how to carry it out						
Specific Learning Objectives		Teachers Activities	Learning Resources	Specific Learning Objectives	Teachers Activities	Learning Resources
Define the following:				3.1		
<ul style="list-style-type: none"> Research, Scientific method, Theory, Hypotheses. 						Quiz Test Assignment

<p>3.2 Describe various types of research e.g.</p> <ul style="list-style-type: none"> • Descriptive, • Exploratory • Casual, • Experimental and • Comparative etc. <p>3.3 Explain the stages involved in research:</p> <ul style="list-style-type: none"> • Formulation of a research problem • Literature Review • Hypothesis • Justification of the research • Data collection and analysis • Findings etc. 						
General Objective: 4: Understand basic principles of probability.						
Specific Learning Objectives	Teachers Activities	Learning Resources	Specific Learning Objectives	Teachers Activities	Learning Resources	Evaluation
<p>4.1 Define random variable</p> <p>4.2 Explain the concept of randomness</p> <p>4.3 Define probability</p> <p>4.4 State the laws of probability</p> <p>4.5 Define conditional probability</p> <p>4.6 Solve simple problems involving the laws of probability as they relate to their disciplines.</p>			-			<p>Quiz</p> <p>Test</p> <p>Assignment</p>
General Objective: 5: Understand the use and importance of some measures of central tendency and measures of dispersion in summarizing data						

Specific Learning Objectives	Teachers Activities	Learning Resources	Specific Learning Objectives	Teachers Activities	Learning Resources	Evaluation
<p>6 5.1 Explain the following:</p> <ul style="list-style-type: none"> • arithmetic mean, • geometric mean, • median mode and • Harmonic mean. <p>5.2 Compute the measures in 5.1 above:</p> <p>(a) ungrouped data</p> <p>(b) grouped data</p> <p>5.3 Explain the uses of geometric and harmonic mean</p> <p>5.4 Calculate the following in a given set of data:</p> <ul style="list-style-type: none"> • quartiles • deciles • percentiles <p>5.5 List the merits and demerits of the above measures of central tendency</p> <p>5.6 Define measures of dispersion</p> <p>5.7 State the importance of the measures of dispersion</p> <p>5.8 Calculate the following</p> <ul style="list-style-type: none"> • mean deviation • Semi Interquartile range • Variance and • standard deviation <p>5.9 Calculate the measures of the dispersion listed in 5.8 given in a sets of data</p>			6.1			<p>Quiz</p> <p>Test</p> <p>Assignment</p>

General Objective: 6: Know the methodology applied in research						
Specific Learning Objectives	Teachers Activities	Learning Resources	Specific Learning Objectives	Teachers Activities	Learning Resources	Evaluation
6.1 Explain sampling methods 6.2 Discuss the two major types of sampling: <ul style="list-style-type: none"> • probability sampling and • Non-probability 6.2 (a) Explain each of the method in probability sampling such as random, <ul style="list-style-type: none"> • systematic, • stratified and • clusters 6.2 (b) Non-probability sampling such as: <ul style="list-style-type: none"> • accidental, • quotas and • Purposive. 6.3 Explain the uses of sampling in research. 6.4 State the advantages and disadvantages of 6.2 (a) and 6.2 (b) above.			6.1			Quiz Test Assignment
General Objective: 7: Know the various methods of data collection						
Specific Learning Objectives	Teachers Activities	Learning Resources	Specific Learning Objectives	Teachers Activities	Learning Resources	Evaluation
7.1 Define data 7.2 State the types of data: <ul style="list-style-type: none"> • primary, and 			7.2			Quiz Test

<ul style="list-style-type: none"> secondary data <p>7.3 Explain the methods of collecting data:</p> <ul style="list-style-type: none"> observation, questionnaire, interview <p>7.4 Describe how to design questionnaires for research.</p> <p>7.5 Explain how to administer questionnaires and interviews. 7.6 Design sample questionnaires for research.</p> <p>7.7 Administer the questionnaires in 7.6 above.</p>						Assignment
General Objective: 8: Know the various methods of processing data						
Specific Learning Objectives	Teachers Activities	Learning Resources	Specific Learning Objectives	Teachers Activities	Learning Resources	Evaluation
<p>8.1 Explain organization of data.</p> <p>8.2 Explain the grouping of data</p> <p>8.3 Explain tabulation of data</p> <p>8.4 Analyzing the data result obtained in 7.6 above</p> <p>8.5 Present the result of the analysis in 8.4 above</p>			8.1			<p>Quiz</p> <p>Test</p> <p>Assignment</p>
General Objective: 9: Understand the presentation of research report						
Specific Learning Objectives	Teachers Activities	Learning Resources	Specific Learning Objectives	Teachers Activities	Learning Resources	Evaluation
<p>9.1 Explain the general format of a research report, e.g. Preliminaries:</p> <ul style="list-style-type: none"> preface foreword 			9.1			<p>Quiz</p> <p>Test</p> <p>Assignment</p>

<ul style="list-style-type: none"> • Approval page • Title page • Dedication • Acknowledgement • Table of contents • List of illustrations e.g. maps/pictures, diagrams, figures and tables <p>Main part</p> <ul style="list-style-type: none"> • Introduction • Aims and Objectives • Limitations and Delineations • Main text • Conclusions and Recommendations • The Appendix • Glossary • Bibliography/References <p>9.2 Explain the use of footnotes references and bibliography</p> <p>9.3 Outline the use of abbreviations in citation</p>						
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PROGRAMME:	DENTAL SURGERY TECHNOLOGY (NATIONAL DIPLOMA)
COURSE:	ENTREPRENEURSHIP
CODE:	EED 126

DURATION (Hours/Week) Lecture: 1hrs	Tutorial: 0	Practical: - 2	Total: 45hrs.
UNITS: 3			
GOAL:	This course is designed to create an entrepreneurial mindset and awareness to the student.		
GENERAL OBJECTIVES:	On completion of this course, the student should be able to:		
1.0 Understand the meaning and scope of Enterprise and Entrepreneurship			
2.0 Understand the history and Government Policy measures at promoting Entrepreneurship in Nigeria			
3.0 Understand the types, characteristics and rationale of Entrepreneurship			
4.0 Understand the role of Entrepreneurship in economic development			
5.0 Understand Entrepreneurial characteristics and attitude			
6.0 Understand the key competencies and determining factors for success in Entrepreneurship			
7.0 Know the motivational pattern of Entrepreneurs.			

General Objective 1.0: Understand the meaning and scope of Enterprise and Entrepreneurship						
Specific Learning Objectives	Teachers Activities	Learning Resources	Specific Learning Objectives	Teachers Activities	Learning Resources	Evaluation
1.1 Define an Enterprise in its narrower and wider contexts. 1.2 Explain different forms of Enterprises 1.3 Classify the different forms of Enterprises into small, medium and large enterprises 1.4 Explain the terms: Entrepreneur, Entrepreneurship, Wage Employment, and self-employment, explain clearly the business terrain in Nigeria.	I. Explain the terms: Enterprise, Entrepreneur Entrepreneurship II. List the different types of enterprises and group them into small, medium and large enterprise III. Compare and contrast wage employment and self-employment. IV. Explain clearly the business terrain in Nigeria.	Text Books	1.1 Identify features of the types of enterprises identified 1.2 Identify the facilities and opportunities available for self-employment. 1.3 Identify successful entrepreneurs in Nigeria. 1.4 Evaluate the role of entrepreneurship in wealth creation.	Guide students to research into different forms of enterprises. Guide students to research and identify criteria for successful entrepreneurship. Establish competitive groups. Students to make formal presentations of their findings. Students to undertake enquiry learning on selected entrepreneur and enterprise.	Successful Entrepreneur to speak on the role and importance of Entrepreneurship. Use of internet and relevant video clips.	Quiz Test Assignment
General Objective 2.0: Understand the history and Government Policy measures at promoting Entrepreneurship in Nigeria						
Specific Learning Objectives	Teachers Activities	Learning Resources	Specific Learning Objectives	Teachers Activities	Learning Resources	Evaluation

<p>2.1 Trace the evolution of entrepreneurship development.</p> <p>2.2 Compare Entrepreneurship in Nigeria with Japan, India, China, Malaysia, South Korea, etc.</p> <p>2.3 Explain Nigeria's values in relation to Entrepreneurship.</p> <p>2.4 Describe the role of Entrepreneurship In the development of enterprises.</p>	<p>I. Explain the historical development and role of entrepreneurship in the development of enterprises in Nigeria.</p> <p>II. Compare Entrepreneurship in Nigeria with other countries of the world. Japan, India, China, Malaysia, South Korea.</p> <p>III. Show students video film on Entrepreneurship development in any of the countries mentioned above.</p> <p>IV. Explain Nigeria's values and Entrepreneurship.</p>	<p>Text Books</p> <p>Journals</p> <p>Publications</p> <p>Video Film</p> <p>TV & VCR</p>	<p>Obtain the required information from the net.</p>	<p>Guide students to search the web for historical evolution of entrepreneurship in other parts of the world.</p> <p>Research and list various Government Measures on SME's and Industrial Development from 1960 to date.</p>	<p>Internet.</p>	<p>Quiz</p> <p>Test</p> <p>Assignment</p>
General Objective 3.0: Understand the types, characteristics and rationale of Entrepreneurship						
Specific Learning Objectives	Teachers	Learning	Specific Learning	Teachers Activities	Learning	Evaluation

		Activities	Resources	Objectives		Resources	
3.1	Explain types of Entrepreneurs and their characteristics.	I. Explain types of Entrepreneurs.	Text Books. K.A.B.	3.5 Analyze life situations people may find themselves in.	Guide students to identify opportunities from the environment.	Internet.	Quiz
3.2	Compare and contrast Technological and Social Entrepreneurship.	II. Explain types of Entrepreneurship.	Journals	3.6 Enumerate the benefits to be derived from the above situation.		Textbooks	Test
3.3	Identify the different types of Entrepreneurs: self-employed, opportunistic, Inventors, Pattern multipliers etc.	III. Explain features of Entrepreneurship in business.	Publications			Journals	Assignment
3.4	Identify the role of Entrepreneurship in business, society and in self-employment.	IV. Explain the rewards and efforts Entrepreneurship in business. V. Describe the different types of Entrepreneurs VI. Describe the role of entrepreneurship in business, society employment generation and wealth creation. VII. Explain the	Video Film TV & VCR				

	benefits of self-employment.					
General Objective 4.0: Understand the role of Entrepreneurship in economic development						
Specific Learning Objectives	Teachers Activities	Learning Resources	Specific Learning Objectives	Teachers Activities	Learning Resources	Evaluation
4.1 Identify resources and constraints of Entrepreneurship. 4.2 Explain how Entrepreneurship leads to import substitution and utilization of local resources. 4.3 Explain how Entrepreneurship leads to socio-economic development. 4.4 Explain the role of an entrepreneur in grassroot/local economic development.	I. Explain resources and constraints of Entrepreneur. II. Relate import substitution to utilization of local resources. III. Explain equitable distribution of industries and the role of entrepreneurship. IV. Explain how entrepreneurship leads to job creation.	Text Books. Journals Publications Video Film TV & VCR	4.5 Classify the resources into economic, human, knowledge and time. 4.6 Distinguish between economic development and growth.	Show transparency of resources needed by an entrepreneur. Guide students to visit selected enterprise/community projects. Guide students on the use of local raw materials for value addition.	Computer or Overhead Projector SME's	Quiz Test Assignment
GENERAL OBJECTIVE 5.0: Understand Entrepreneurial characteristics and attitude						
Specific Learning Objectives	Teachers Activities	Learning Resources	Specific Learning Objectives	Teachers Activities	Learning Resources	Evaluation
5.1 Explain the philosophy, values, scope, need and characteristic of Entrepreneurship.	I. Using slide or PowerPoint explain personal characteristics and	Textbooks Journals	5.9 Evaluate the opportunities identifying correspondi	Guide students to identify as many job/employment opportunities as	Computer Projector	Quiz Test

5.2	Explain the profiles of local Entrepreneurs.	attitude of an Entrepreneur	Computer Projector		ng self-employment opportunities.	possible.	Guest Speakers (Female/Male) Internet search.	Assignment
5.3	Demonstrate high sense of innovation, creativity and independence.	II. List Entrepreneurial traits citing relevant cases.		5.10	Evaluate a project considering its resources: management of time, personnel, equipment and money.	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.		
5.4	Explain the process of acquiring high sense of information seeking and ability in operating an enterprise.	III. Explain the aspiration, determination and efficiency of an Entrepreneur.						
5.5	Identify various risks and remedies involved in operating an enterprise.	IV. Explain how to demonstrate high sense of innovation creativity and independence.		5.11	Explain constraints and problem solving techniques.	Group students to survey and interview Entrepreneurs.		
5.6	Evaluate pilot project considering resources, time, personnel, equipment, money, materials etc.							
5.7	Demonstrate leadership and leadership skills by mobilizing resources for establishing an enterprise.	V. Describe how to evaluate a private project.				Evaluate a sample project with the students, then give them assignment to assess one.		
5.8	Demonstrate high level problem solving techniques in overcoming internal and external constraints.	VI. Describe how to mobilize resources for establishing an enterprise.						
		VII. Describe how to solve problems						

		involving internal and external constraints.						
General Objective 6.0: Understand the key competencies and determining factors for success in Entrepreneurship								
Specific Learning Objectives		Teachers Activities	Learning Resources	Specific Learning Objectives		Teachers Activities	Learning Resources	Evaluation
6.1	Identify the key competencies required in setting up a successful small business; knowledge, skill and Traits.	I. Explain major competencies required for successful Entrepreneurship II. Explain key success factors in setting up small business. III. Explain individual life goal of an Entrepreneur IV. Explain relevant business games and their behavioral patterns.	Text Books.	6.7	Describe: Data collection about self, who am I (personal efficacy). Rating of concept, self-knowledge. 6.8 Play a relevant business game and observe the behavioral pattern in relation to moderate risk taking, goal setting etc. 6.9 Identify core skills, competencie	Guide students to demonstrate knowledge of themselves, goals, Entrepreneurship strengths and weaknesses. Give practical assignment to students on personal efficacy, goal and link to Entrepreneurship strength and weaknesses. Demonstrate how to play business game. Visit a small business	Computer and accessories, internet and visitations. Blocks Rings Papers	Quiz Test Assignment
6.2	Identify key success factors in setting a small business: Resources, Ability, Motivation and Determination, Idea and Market etc.		Journals					
6.3	Define individual life goal and link it to Entrepreneurship.		Publications					
6.4	Identify the strengths and weaknesses in 6.3 above.		Video Film					
6.5	Explain business games.		TV & VCR					
6.6	Explain the behavioral pattern observed in 6.5 above on: Moderate risk taking, goal setting, Learning from							

feedback. Taking personal responsibility. Confidence and self-reliance.			s, and success factors required for entrepreneurship.	enterprise.		
General Objective 7.0: Know the motivational pattern of Entrepreneurs.						
Specific Learning Objectives	Teachers Activities	Learning Resources	Specific Learning Objectives	Teachers Activities	Learning Resources	Evaluation
7.1 Define motivation. 7.2 List the objectives of motivation. 7.3 Identify barriers to motivation and achievement. 7.4 Explain Thematic Appreciation Test (TAT) scores. 7.5 Explain how to analyze motive strength from TAT score 7.6 Explain the spirit of Achievement Motivation Test (AMT)	I. Explain motivation, objectives, merit and demerit. II. Explain TAT scores. III. Explain how to carryout analysis on motive strength from TAT scores. IV. Explain spirit of AMT.	Text Books Journals Publications	7.7 Analyze motive strength from TAT score using a given case.	Illustrate how to carryout analysis on motive strength from TAT scores using related case studies.	Computer And Internet facilities	Quiz Test Assignment

PROGRAMME: NATIONAL DIPLOMA DENTAL SURGERY TECHNOLOGY			
COURSE: FIRST AID & DENTAL EMERGENCIES			
CODE: DST 221			
DURATION: (Hours/Week) Lecture: 2hrs.	Tutorial: 0	Practical: 1 hr.	Total: 3hrs.
UNITS: 3 CU			
GOAL: This course is designed to provide the students with essential knowledge of First Aid Management			
GENERAL OBJECTIVES: On completion of the course, the student should be able to:			
1.0 Understand the importance of First Aid 2.0 Know inflammation, inflammatory conditions, causes and management 3.0 Understand basic life support and its applications 4.0 Understand burns, causes and management 5.0 Know common poisonous substances and their effect on human health 6.0 Understand shock conditions, causes and management 7.0 Understand the common causes and management of injuries to Tooth, bones and joints. 8.0 Know the management of minor Dental Injuries and wounds.			
PROGRAMME: NATIONAL DIPLOMA DENTAL SURGERY TECHNOLOGY			

COURSE: FIRST AID & DENTAL EMERGENCIES	Course Code: OCT 112	Contact Hour: 4hrs
Course Specification: Theory/ Practical		
General Objective: 1.0: Understand the importance of first aid		
Specific Learning Objectives (Theory)	Teachers Activities	Resources
1.1 Define First Aid and First Aider	-Lectures -Discussion -Assignments	- White Board/ Marker - Posters - Projectors - First Aid book
1.2 Explain the importance of first aid to the Technician		
1.3 Outline general first aid care given in any condition		
Course Specification:PRACTICAL	Teachers Activities	Resources
1.4 Identify the contents of a first aid box	-Assist Students in identification of items in a first aid box.	-Sample of First Aid Box with complete contents.
GENERAL OBJECTIVE: 2.0: Know inflammation, inflammatory conditions, causes and management .		
Specific Learning Objectives (Theory)	Teachers Activities	Resources

2.1 Define the term inflammation	-Lecture	- White Board / marker
2.2 List the causes of inflammation	-Discussion	- Posters
2.3 Outline the signs and symptoms of inflammation	-Assignments	- Projectors
2.4 State simple inflammatory conditions		
2.4 Explain the management of patients with inflammatory condition.		
Course Specification:PRACTICAL	Teachers Activities	Resources
2.5 Identify inflammatory conditions	-Assist students in identification of conditions of inflammation	-Life patient with inflammatory condition

General Objectives: 3.0 Understand basic life support and its applications		
Specific Learning Objectives (Theory)	Teacher Activities	Resources
3.1 Explain basic life support	-Lectures	- Projector
3.2 List conditions that require basic life support e.g. respiratory emergencies, choking, shock etc.	-Discussions	- White Board / marker
3.3 Outline the causes of respiratory emergencies	-Assignments	- Posters
		- Sample of BLS items

3.4 List causes of choking		
3.5 Explain the preventive measures for respiratory emergencies and choking.		
Course Specification:PRACTICAL	Teachers Activities	Resources
3.6 Manage patient with respiratory distress using basic life support	-Demonstrate Artificial Respiration of patient	<ul style="list-style-type: none"> • Oxygen cylinder • Ambu-bag • Suction machine& Sample of BLS items.
General Objectives: 4.0 :Understand burns, causes and management		
Specific Learning Objectives (Theory)	Teacher Activities	Resources
4.1 Define Burns 4.2 Explain the classification of burns according to its degree and/or depth 4.3 State the causes of Burns 4.4 Describe the first aid treatment for burns 4.5 Outline the various preventive measures for burns and its complications.	-Lecture -Discussion -Assignments	- Projector - White board/ marker - Posters
Course Specification:PRACTICAL	Teachers Activities	Resources
4.6 Treat patients with minor burns	-Demonstrate how to dress wounds caused by burns	-First Aid materials for treatment of Burns i.e sterile dressing pack, Gloves, Masks, Antiseptic lotion

		- Dressing Tray.
General Objectives: 5.0 - Know common poisonous substances and their effects on human health		
Specific Learning Objectives (Theory)	Teacher Activities	Resources
5.1 Define Poison 5.2 State the cause(s) of common poisoning 5.3 Outline the effects of poison in human beings 5.4 State the objectives for treatment of poisoning 5.5 Explain the preventive measures for poisoning	-Lectures -Discussions	- White board/ marker. -Samples of common poisonous substances -Posters
Course Specification:PRACTICAL	Teachers Activities	Resources
5.6 Manage cases of common poisoning	-Demonstrate the methods and procedure(s)for treatment of patients with poisoning.	- Sample of Antidote depending on the type of poison.
General Objectives: 6.0 - Understand shock conditions, causes and management		
Specific Learning Objectives(Theory)	Teacher Activities	Resources
6.1 Define Shock 6.2 State the causes of shock 6.3 Outline the signs and symptoms of shock 6.4 Explain the preventive measures of shock 6.5 Describe the management of a patient with	- Lectures - Discussions - Assignments - Demonstration	- White board /marker - Projector - Charts/ posters

shock		
Course Specification:PRACTICAL	Teachers Activities	Resources
6.6 Give First Aid treatment to a patient with shock	-Demonstrate to students, how to manage patients with shock.	<ul style="list-style-type: none"> - Bed - Bed elevators/ blocks - Human model or Dummy
General Objectives: 7.0 - Understand the common causes and management of injuries to Tooth, bones and joints.		
Specific Learning Objectives (Theory)	Teacher Activities	Resources
7.1 Explain the terms: injuries, bones and joints 7.2 Identify different injuries of bones and joints e.g. dislocation, fracture, sprain and strain 7.3 Explain the causes of different injuries to bones and joints listed in 7.2 7.4 Describe the preventive measures of injuries identified in 7.2	<ul style="list-style-type: none"> - Lecture - Discussion - Assignments 	<ul style="list-style-type: none"> - Human skeleton - Human model or dummy/ anatomical models - Posters/ Charts - Splints/bandages - Stocked First Aid Box - White board/ marker - Projectors
Course Specification:PRACTICAL	Teachers Activities	Resources
7.5 Carryout first aid care of patients with injuries of bones and joints.	Demonstration	<ul style="list-style-type: none"> -Stocked First Aid Box - Splints/ bandages -Patient or Dummy

General Objectives: 8.0 - Know the management of minor Dental Injuries and wounds.		
Specific Learning Objectives (Theory)	Teacher Activities	Resources
8.1 Define wounds 8.2 List types of wounds 8.3 Outline causes of wounds 8.4 Describe the treatment of wounds 8.5 Describe the methods for prevention of wound infection(s)	<ul style="list-style-type: none"> - Lectures - Discussions - Assignments 	<ul style="list-style-type: none"> - White board/marker - Projector - Posters /Charts
Course Specification:PRACTICAL	Teachers Activities	Resources
8.6 Carryout Wound Dressing	Demonstrate dressing of wounds in the dressing room	Dressing packs, masks, gloves, lotions, plaster, bandage, wound powder etc.

Programme: National Diploma in PROGRAMME: NATIONAL DIPLOMA IN DENTAL SURGERY TECHNOLOGY		
Course Title: DENTAL MATERIAL BIOSCIENCE I	Code: DST 222	Credit Hour: 60
		Credit Unit:4
	Pre-requisite:	Theoretical: 2 hours/week
Year: SECOND Semester: SECOND		Practical : 2 hours/week

Course main Goal: this course is enable students acquire knowledge on the use of different Biomaterilas in Dentistry.

General Objectives: On completion of the course, the student should be able to:

1.0 Understand manipulation of Dental Biomaterial Commonly used in Dentistry.

2.0 Know Science of Dental Biomaterials used Dental Surgery.

3.0 Understand knowledge the safety of Biomaterials used in Dental Surgery.

4.0 Know Impression materials science and its Manipulation.

5.0 Understand use of Lining Material.

Programme: National Diploma in PROGRAMME: NATIONAL DIPLOMA IN DENTAL SURGERY TECHNOLOGY						
Course Title: DENTAL MATERIAL BIOSCIENCE I			Code: DST 222		CH:3 CU:3	
General Objective 1.0 Understand manipulation of Dental Biomaterial Commonly used in Dentistry.						
Week	Specific Learning Outcomes	Teacher’s Activities	Resources	Specific Learning Outcomes	Teacher’s Activities	Evaluation
1-2	1.1 Phenolate					

	1.2 Phosphate 1.3 Polyacrylate-type 1.4 Resin (i.e. Polymeric) 1.5 Dycal					
General Objectives 2.0 Know Science of Dental Biomaterials used Dental Surgery.						
	2.1 Zinc oxide Eugenol 2.2 Zinc Phosphate					
Objectivs 3.0 Understand knowledge the safety of Biomaterials used in Dental Surgery.						
	3.1 Amalgam 3.2 Composite resins 3.3 Glass ionomers 1. Gold 2. Root canal materials 3. Materials used in restoration of sensitive teeth.					

General Objectives 4.0 Know Impression materials science and its Manipulation.						
	1. Alginate 2. Zinc oxide eugenol Impression paste 3. Rubber based impression materials 4. Materials used in denture constructions					
General Objectives 5.0 Understand use of Lining Materials.						
	<ul style="list-style-type: none"> • Dycal • Zinc oxide Eugenol • Zinc Phosphate cement • Zinc Polycarbonate cement 					

Course Title: PAIN AND ANXIETY CONTROL IN DENTISTRY	Code: DST 223	Credit Hour: 30 Credit Unit:2
	Pre-requisite:	Theoretical: hours/week
Year: SECOND Semester: SECOND		Practical : hours/week

Course main Goal: this course is

General Objectives:

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

1.0 Understand Pain control in Dental Patients.

2.0 Be competent at the provision of chair-side support during the administration of local and regional analgesia

3.0 Be familiar with the manifestations of anxieties states and pain and the methods for their management and control

4.0 Be familiar with various methods of conscious sedation techniques.

Programme: National Diploma in PROGRAMME: NATIONAL DIPLOMA IN DENTAL SURGERY TECHNOLOGY		
Course Title:	Code: DST 223	CH:2 CU:2
General Objective 1.0 : Local Analgesia		

Week	Specific Learning Outcomes	Teacher's Activities	Resources	Specific Learning Outcomes	Teacher's Activities	Evaluation
1-2	<ol style="list-style-type: none"> 1. Local analgesic agents 2. Local analgesic techniques (Typical, interligamentary, infiltration, block) 					
General Objectives 2.0 General Anaesthesia						
Objectives 3.0 Introduction of Conscious Sedation						
	<ol style="list-style-type: none"> 1. Definition of conscious sedation 2. Anxiety and phobia state: cause and recognition 					
General Objectives 4.0 Preparation of Patient						
	<ol style="list-style-type: none"> 1. Checking that all relevant equipment are in good order 2. Checking patient 3. Notes for accuracy and consent forms 4. Check if patient have followed written instruction 					

General Objectives 5.0 Sedation Techniques including Drugs and Equipment						
	1. Oral 2. Intravenous 3. Inhalation					

DST 223 PRE & POST OPERATIVE DENTAL CARE [Not Developed]

Programme: National Diploma in PROGRAMME: NATIONAL DIPLOMA IN DENTAL SURGERY TECHNOLOGY		
Course Title: DENTAL RADIOGRAPHY II	Code: DST 224	Credit Hour: 45 Credit Unit:3
	Pre-requisite:	Theoretical: hours/week
Year: SECOND Semester: SECOND		Practical : hours/week

Course main Goal: this course is

General Objectives: On the completion of the course, the student should be able to:

1.0 Understand Extra Oral Radiography

2.0 Know Principles of Dental Radiography.

3.0 Understand Reading and Interpretation of Dental Radiographs.

Programme: National Diploma in PROGRAMME: NATIONAL DIPLOMA IN DENTAL SURGERY TECHNOLOGY						
Course Title: DENTAL RADIOGRAPHY II			Code: DST 224		CH:3 CU:3	
General Objective 1.0 : Extra Oral Radiography						
Week	Specific Learning Outcomes	Teacher’s Activities	Resources	Specific Learning Outcomes	Teacher’s Activities	Evaluation
1-2	1.1 General patient considerations including control of infections					
	1.2 Oblique lateral radiography					
	-Skull and maxillofacial radiography					
	-Cephalometric radiography					
	-Orthopantomograms , Factors					

	effecting radiographic image					
General Objectives 2.0 Know Principles of Dental Radiography.						
	1. Dental caries and the assessment of restorations 2. Dental Anaesthetic including general anaesthetic					
Objectivs 3.0 Understand Reading and Interpretation of Dental Radiographs.						

Programme: National Diploma in PROGRAMME: NATIONAL DIPLOMA IN DENTAL SURGERY TECHNOLOGY		
Course Title: CLINICAL DISEASE AND DIET THERAPY I	Code: DST 225	Credit Hour: 2 Credit Unit:2
	Pre-requisite:	Theoretical: 2 hours/week
Year: SECOND Semester: SECOND		Practical : hours/week

Course main Goal: this course is designed to provide the students with the knowledge of the diseases of gastro-intestinal tract, surgical conDSTion and management of fever

<p>General Objectives:</p> <p>On the completion of the course, the student should be able to:</p> <ol style="list-style-type: none"> 1. Know diseases of the gastro-intestinal tract and their dietary management. 2. Understand the dietary management of surgical conDSTion.

3. Understand dietary management of fever conditions.
4. Know fluid diets and the condition under which they can be applied
5. Understand nutritional care of pregnant women.

Programme: National Diploma in PROGRAMME: NATIONAL DIPLOMA IN DENTAL SURGERY TECHNOLOGY						
Course Title: Clinical Disease & Diet Therapy I			Code:		CH:	CU:
General Objective 1.0 : Diseases of the gastro-intestinal tract						
Week	Specific Learning Outcomes	Teacher’s Activities	Resources	Specific Learning Outcomes	Teacher’s Activities	Evaluation
1-2	On completion of this course, the students should be able to Diseases of the gastro-intestinal tract 1.1 List the diseases of gastro-intestinal tract a. Dental caries b. Tumour of the mouth c. Gingivitis d. Tumour of oesophagus e. Corrosive burns f. Reflex oesophagus g. Hiatus hernia h. Gastritis					

	2.1 List surgical condition requiring dietary management 2.2 explain each of 2.1 above under the following headings I. Dietary indication in pre and post-surgery II. Rational for dietary indication III. Diet plan IV. Diet preparation V. Diet calculation					
Objectives 3.0 Understand dietary management of fever conditions.						
	3.1 define fever 3.2 explain the effect of fever on metabolism Explain dietary management in fever					
4.0 Know fluid diets and the condition under which they can be applied						
	4.1 Define fluid diet 4.2 Identify modes of fluid feeding e.g Oral, Nasogastric, gastrostomy, jejunostomy. 4.3 Identify types of fluid diet 4.4 Identify types of fluid diet used in 4.2 above 4.5 Calculate total volume of fluid feed 4.6 Calculate nutrients in fluid diets 4.7 Prepare fluid diets 4.8 Explain feeding regimen 4.9 Explain the problem					

	involve in tube feeding 4.10 State the condSTions requiring fluid diets					
5.0 Understand Nutritional care of pregnant women						
	Nutritional care of pregnant women 5.1 measure the weight of a pregnant woman 5.2 compare the weight in 5.1 above with standard 5.3 check the blood level of a pregnant woman against normal value 5.4 explain the correct choice of intake to a pregnant woman 5.5 cook different foods in the presence of pregnant woman so as to retain enough of the nutrients e.g. vitamins					

Programme: National Diploma in PROGRAMME: NATIONAL DIPLOMA IN DENTAL SURGERY TECHNOLOGY		
Course Title: ORAL HEALTH CARE & PATIENT RECORDS.	Code: DST 226	Credit Hour: 3 Credit Unit: 3
	Pre-requisite:	Theoretical: 2 hours/week
Year: SECOND Semester: SECOND		Practical : 1 hours/week

Course main Goal: this course is

General Objectives: On the completion of the course, the student should be able to:

- 1.0 Understand Oral Health Promotion
- 2.0 Understand the Importance of Oral Health Education
- 3.0 Know the Importance of regular Dental Check-Ups.
- 4.0 Understand Policies and Oesources for oral Health Services.

Programme: National Diploma in PROGRAMME: NATIONAL DIPLOMA IN DENTAL SURGERY TECHNOLOGY						
Course Title: Oral Health & Care & Patients Records.			Code: DST 226		CH:	CU:3
General Objective 1.0 1.0 Understand Oral Health Promotion.						
Week	Specific Learning Outcomes	Teacher’s Activities	Resources	Specific Learning Outcomes	Teacher’s Activities	Evaluation
1-2						

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General Objective 2.0 Understand the Importance of Oral Health Education.						
Week	Specific Learning Outcomes	Teacher's Activities	Resources	Specific Learning Outcomes	Teacher's Activities	Evaluation
1-2						
General Objective 3.0 Know the Importance of regular Dental Check-Ups.						
Week	Specific Learning Outcomes	Teacher's Activities	Resources	Specific Learning Outcomes	Teacher's Activities	Evaluation
1-2						
General Objective 4.0 Understand Policies and Oesources for oral Health Services.						
Week	Specific Learning Outcomes	Teacher's Activities	Resources	Specific Learning Outcomes	Teacher's Activities	Evaluation
1-2						

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Programme: National Diploma in PROGRAMME: NATIONAL DIPLOMA IN DENTAL SURGERY TECHNOLOGY		
Course Title: ORAL PATHOLOGY AND ORAL MEDICINE I.	Code: DST 217	Credit Hour: 30 Hours Credit Unit: 2
	Pre-requisite:	Theoretical: hours/week
Year: 2 Semester: Second		Practical : hours/week

Course main Goal: this course is

General Objectives:

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

1.0 Have a basic understanding of the process underlying the common oral diseases

2.0 Have knowledge of the methods for the diagnosis prevention and management of the disease.

Programme: National Diploma in PROGRAMME: NATIONAL DIPLOMA IN DENTAL SURGERY TECHNOLOGY						
Course Title: ORAL PATHOLOGY & ORAL MEDICINE I.			Code: DST 217		CH: CU:	
General Objective 1.0 : Oral Diagnosis						
Week	Specific Learning Outcomes	Teacher’s Activities	Resources	Specific Learning Outcomes	Teacher’s Activities	Evaluation
1-2	1. History Taking 2. Importance of history taking 3. Clinical examination (Intra and Extra Oral)					
General Objectives 2.0 Oral Medicine						
	1. Oral Manifestation of Systemic Disease 2. Halitosis and its Management 3. Oral ulcers and its management 4. Mucous membrane diseases 5. Early detection of					

	oral cancers					
Objectivs 3.0 Drugs used in Dentistry						
	1. Analgesics					
	2. Antibiotics					
	3. Haemostatics					
General Objectives 4.0 Oral Pathology						
	1. Laboratory investigations					
	2. Dental anomalies					

Course: PRACTICE OF entrepreneurial ENTREPRENEURSHIP	Code: EEd 216	Credit Hour: 3 hours
	Pre-requisite: Intro to	Theoretical: 1 hours/week - %
Semester: Third		Practical : 2 hours/week - %

Course main Aim/Goal This course is designed to equip the student with necessary entrepreneurial skills for self-employment.

General Objectives:

On completion of the course, the student should:

- 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**

Theoretical Content				Practical Content		
General Objective 1: Know techniques for generating business ideas and the process of identifying and assessing business opportunities						
Week	Specific Learning Outcomes	Teacher's Activities	Resources	Specific Learning Outcomes	Teacher's Activities	Resources
	1.1 Define business opportunity.	I. Explain business opportunities and process of	Text Books, journals.	Identify business opportunities using SWOT	Guide students to identify business opportunities using	Computer text books,

1-2	1.2 State the process of Exploring opportunities. 1.3 Identify business opportunities(SWOT Analysis) 1.4 State the process of conducting a market survey in order to establish demand/supply gap.	exploring them. II. Explain the process of product/service selection. III. Explain SWOT Analysis and how to identify business opportunities. IV. Explain the process of conducting		Analysis. Conduct market survey and select the most viable business venture.	SWOT Analysis Guide students to conduct market survey to enable them select the most viable business venture. Demonstrate using appropriate application package, product	Use of internet and relevant video clips. Guest speakers from successful businesses.
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	1.5 State the process of business idea generation.	<p>market survey and selecting a viable business venture.</p> <p>V. Explain the process of business idea generation.</p>		Set up a small business enterprise	<p>selection, product tracking, order tracking etc.</p> <p>Set up student groups with the task of setting up a small business enterprise.</p> <p>Invite a successful entrepreneur to give a talk.</p> <p>Make the student/group generate his/their viable business idea which would further be subjected to feasible business plan.</p>	
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Theoretical Content	Practical Content
General Objective 2: Know how to evaluate a business idea for developing an enterprise	

Week	Specific Learning Outcomes	Teacher's Activities	Resources	Specific Learning Outcomes	Teacher's Activities	Resources
	2.1 Define the concept of business plan.	I. Explain a business idea. II. Explain the concept of	Textbook S. Journey Project or (mm)	Prepare a preliminary project proposal.	Guide students in preparing a preliminary project proposal.	Computer complete with accessories

3	<p>2.2 Explain the process of preparing preliminary project proposal.</p> <p>2.3 Explain the process of preparing a detailed business plan.</p> <p>2.4 Conduct a model business plan on a selected venture.</p>	<p>business plan and project proposal .</p> <p>III. Relate business idea to business plan and project proposal.</p> <p>IV. Describe the steps in preparing a model business plan.</p>		<p>Set-up students' groups with an initial start up capital of N10,000,00 and the task of setting up a small business enterprise.</p> <p>Conduct a modest business plan on a selected venture. Present the plan to a panel of successful entrepreneur for assessment.</p> <p>Explore Internet for company profile,</p>	<p>Using the on going business project guide students to complete a business plan and present it to a panel of successful entrepreneurs, the plan should consider sale forecast, time sheet analysis, employee tracking, loan amortization etc.</p> <p>Explore Internet for company profile, product catalog, product information, URL management.</p> <p>The written business plan</p>	<p>and D base, Internet connection. Textbooks.</p>
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				<p>product catalog, product information, URL management.</p> <p>Conduct a model business plan on a selected venture.</p>	<p>should be assess as part of continuous assessment</p>	
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Theoretical Content				Practical Content		
General Objective 3: Know methods of product/service selection						
Week	Specific Learning Outcomes	Teacher's Activities	Resources	Specific Learning Outcomes	Teacher's Activities	Resources
	3.1 Define product /service.	I. Explain product	Text Books	Analyze a given case in product	Guides students to analyze a case in	

<p>4-5</p>	<p>3.2 Explain the nature and characteristics of product/service.</p> <p>3.3 Explain product selection criteria.</p> <p>3.4 Identify key factors associated with product selection.</p> <ul style="list-style-type: none"> - Infrastructure - Technology - Availability of raw material. - Government Policy/Regulation - Legal aspects of business. <p>3.5 Explain venture idea generation.</p> <p>3.6 Explain the steps involved in</p>	<p>selection, criteria and factors associated with selection.</p> <p>II. Explain venture idea generation.</p> <p>III. Explain steps involved in preliminary screening.</p> <p>IV. Explain steps in preparing pre-feasibility study.</p> <p>V. Explain the adequacy of</p>	<p>Journals Publications.</p> <p>Projector (mm)</p>	<p>selection. Select a product Prepare a feasibility report on a modern business and evaluate the viability, methodology and CBA. (Cost Benefit Analysis) Generate venture idea on selected exportable product obtained from the web.</p> <p>Write a report on their visit.</p>	<p>product selection. Invite an Entrepreneur to speak on venture idea generation and product selection</p> <p>Guide students to prepare feasibility studies on a model institution based business and evaluate the viability, methodology and (Cost Benefit Analysis) CBA.</p> <p>Guide students to use web based information to generate venture idea on an exportable product.</p> <p>Organize visit</p>	
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	preliminary screening. 3.9 Explain the different steps in preparing pre-feasibility study. 3.10 Evaluate adequacy	infrastructural facilities, relevant technology and adequacy of raw materials for the selected product.			to a small business outfit to understudy infrastructural facilities, available technology, sources and adequacy of raw	
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	<p>of infrastructural facilities for product selection.</p> <p>3.10 Identify the relevant technology available for the selected product.</p> <p>3.11 Evaluate sources and adequacy of raw materials for the selected product.</p> <p>3.12 Explain effects of government policy and regulations on the selected product.</p> <p>3.13 Identify legal aspects of business in product selection.</p>	<p>VI. Explain effects of government policy and regulation as well as legal aspects of business on the selected product</p>			<p>materials, effect of government policy and regulation and legal aspects of the business.</p>	
Theoretical Content				Practical Content		
General Objective 4: Understand the process and procedure for starting an Enterprise						

Week	Specific Learning Outcomes	Teacher's Activities	Resources	Specific Learning Outcomes	Teacher's Activities	Resources
6-7	<p>4.1 Out line the main features of the Companies and Allied Matters Act (CAMA) 1990 and the subsequent amendments.</p> <p>4.2 Explain the functions of the Corporate Affairs Commission (CAC) under the Companies and Allied Matters Act 1990.</p> <p>4.3 Explain the legal structure of business.</p>	<p>I. Explain the main features of the CAMA with special reference to provisions relating to registration and incorporation business.</p> <p>II. Explain the functions of CAC.</p> <p>III. Explain the different legal forms of</p>	Textbooks CAMA Articles and Memo of Association Certificate of Incorporation.	<p>Prepare Memorandum and articles of Association for a hypothetical company.</p> <p>Identify documents required for incorporation.</p>	<p>Guide students to prepare Memorandum and Articles of Association of a hypothetical company.</p> <p>Show students necessary Incorporation documents.</p> <p>Visit CAC office nearest to you to familiarize with its operation.</p>	Text books CAMA Internet (CAC Website)

	<p>4.4 State factors to consider in naming a business.</p> <p>4.5 Explain the procedure and requirements for registration of a business name.</p> <p>4.6 Explain the procedure and</p>	<p>business.</p> <p>IV. Explain reasons for and factors in naming a business.</p> <p>V. Explain Memorandum</p>				
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	<p>requirements for incorporating a business.</p> <p>4.7 Explain the reasons for the existence of registered business names and companies.</p> <p>4.8 Identify various agencies responsible for issuance of licenses and permits.</p>	<p>and articles of association and the procedure for incorporation of companies in Nigeria.</p> <p>VI. Explain licenses and permits and their issuing Agencies</p>		Register a business name.	Guide students to register a hypothetical business name with the nearest CAC	
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Theoretical Content				Practical Content		
General Objective 5: Know the various operational techniques in managing an Enterprise						
Week	Specific Learning Outcomes	Teacher's Activities	Resources	Specific Learning Outcomes	Teacher's Activities	Resources

<p>8-9</p>	<p>5.1 Define management and a manager</p> <p>5.2 Explain the functions of management and a manager</p> <p>5.3 Explain management structure for an enterprise.</p> <p>5.4 Explain the communication process in the management of an enterprise.</p> <p>5.5 Explain the techniques and skills of:</p> <ul style="list-style-type: none"> i. Planning ii. Organizing iii. Staffing iv. Leading v. Controlling 	<p>I. Explain the functions, techniques and skills of management.</p> <p>II. Draw a management structure to suit the viable project selected by students</p> <p>III. Explain the techniques of the functional areas of management.</p> <p>IV. Explain principles of record</p>	<p>Text Books Specimen of financial records. Cardboard Marker. Organogram</p>	<p>Draw appropriate organogram for a small scale enterprise.</p> <p>Identify communication process in the management of an enterprise.</p> <p>Explain the function areas of business management, planning, organizing, etc.</p>	<p>Guide student to draw an organogram to suit the selected business venture.</p> <p>Demonstrate the techniques and skills of communication process in the management of the selected business venture, using computer networking of not less than 3 computers. Demonstrate, using appropriate application packages, techniques and skills of:</p> <p>Business planning Business positioning</p>	<p>Text books sample Record books Project or (MM) organogram</p>
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	<p>5.6 Explain the basic techniques of marketing, production and financial management in an enterprise.</p> <p>5.7 Explain the principles of record keeping, auditing and taxation.</p>	keeping, auditing and taxation.			Business scheduling Staffing and staff tracking, etc explaining their importance to sustainable business venture.	
Theoretical Content				Practical Content		
General Objective 6: Know the various existing industries and support agencies in Nigeria						
Week	Specific Learning Outcomes	Teacher's Activities	Resources	Specific Learning Outcomes	Teacher's Activities	Resources

<p>10-11</p>	<p>6.1 Explain various industry/support agencies.</p> <p>6.2 Explain the types, and sources of materials used in both manufacturing and service Industries.</p> <p>6.3 Explain the types and sources of plants and machinery used in small scale Industries.</p> <p>6.4 Explain the various information and assistance for vital areas like finance, registration, project selection, training, marketing, research, quality control, raw materials, patent</p>	<p>I. Explain Industry, types and support agencies.</p> <p>II. Explain the nature, types and sources of materials, machineri es and informatio n in enterprise s.</p>	<p>Textbooks , journals , CD's/Fil m VCR</p>	<p>Identify types and sources of plants and machinery used in small scale industries, nature and type of material inputs and information about market and financial assistance.</p> <p>Prepare a report and share experience.</p>	<p>Guide students to visit websites to identify types and sources of machinery and plants, material inputs for small scale industries, information and assistance for finance, market etc.</p> <p>Form groups and assign them out of class. Visit/experienc e in selected enterprise.</p> <p>Groups to share experiences on the visit.</p>	<p>Compute r and accessor ies with Internet connecti on. Textboo ks and journals.</p>
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	information etc. 6.5 Explain environmental factors associated with Industrial and economic development in Nigeria.					
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Theoretical Content				Practical Content		
General Objective 7: Appreciate the role of commercial and development banks in small and medium scale industries development						
Week	Specific Learning Outcomes	Teacher's Activities	Resources	Specific Learning Outcomes	Teacher's Activities	Resources
12-13	7.1 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.	I. Explain the role of financial institutions in entrepreneurial development. II. Explain the role of commercial and development Banks in the promotion and development of SME. III. Examine government policies on financing SME. IV. List support agencies for SME's Nigeria-NEPC,IDCs, BOI, NACR DB etc.	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: <ul style="list-style-type: none">□ Good customer relations□ Regular lodgments□ Bank reconciliation	Projector (16 mm) Computer Internet .

	7.5 Explain the role of capital markets in Financing enterprise.	V. Explain government policy on financing SMEs.				
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General Objective 8: Understand the role of personal savings and portfolio investment in National Economic Development						
Week	Specific Learning Outcomes	Teacher's Activities	Resources	Specific Learning Outcomes	Teacher's Activities	Resources
14-15	8.1 Define the following; Income, expenditure and savings 8.2 Explain the role of savings in starting and sustaining businesses 8.3 List the benefits of interest. 8.4. Explain personal Financial Planning and management. 8.5 Explain shopping habits 8.6 Explain portfolio investment-	I. Explain savings II. Explain how savings are channeled into productive ventures. III. Explain the benefits of interest. IV. Explain the role of budgeting in personal economics V. Describe shopping habits VI. Analyze portfolio	Textbooks, journals and other publications.	Calculate interest rates. Develop personal budget for one month. Create a spreadsheet for a budget Learn to save and invest in portfolio.	Show various methods of computing interest Guide students to develop a personal budget for one month Guide students to create a spreadsheet for a budget Invite a stock broker to give a talk.	Textbooks, journals and other publications, computer.

	shares, bonds, debentures.	investment. VII. Explain thrift societies and how they operate.				
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GNS 228 PROJECT WRITING

LIST OF REQUIRED EQUIPMENT

S/N	FACILITIES	EQUIPMENT	NUMBERS
1	LABORATORIES <ol style="list-style-type: none"> 1. Biology Lab 2. Chemistry Lab 3. Physics Lab 4. Studio/Drawing rooms 		 1 1 1 1
2	EQUIPMENTS/INSTRUMENT		
	A.CONSERVATIVE INSTRUMENTS	<ul style="list-style-type: none"> • Amalgam Carvers • Enamel Hatchets • Excavators • Root Canal Instruments • Spatulas • Filling Instruments • Composite Instruments • Utility & Crown Instruments- • Syringes • Gum Scissors • Needles Holders • Tissue & Dressing Pliers • Rubber dam Instruments • Clamp forceps 	20 20 20 20 20 20 20 20 20 20 20 20 20 20
	B.ORTHODONTIC INSTRUMENTS	<ul style="list-style-type: none"> • Mirrors • Straight Probe • Cotton Pliers 	20 20 20

		<ul style="list-style-type: none"> • Mobilization Appliances 	20
		<ul style="list-style-type: none"> • Wire 	20
		<ul style="list-style-type: none"> • Bands 	20
		<ul style="list-style-type: none"> • Splints 	20
		<ul style="list-style-type: none"> • Wire Cutter 	20
		<ul style="list-style-type: none"> • Ligature Cutter 	20
		<ul style="list-style-type: none"> • Distal end Cutters 	20
		<ul style="list-style-type: none"> • Mathien Plier 	20
		<ul style="list-style-type: none"> • Seperating pliers 	20
		<ul style="list-style-type: none"> • Band Pusher 	20
		<ul style="list-style-type: none"> • Plastic Filling Instrument 	20
		<ul style="list-style-type: none"> • Posterior Band Remover 	20
		<ul style="list-style-type: none"> • Bracelet Holder or bracket tweezer 	20
	C.PENODENTAL INSTRUMENTS	<ul style="list-style-type: none"> • Probes (different types) 	20
		<ul style="list-style-type: none"> • Tweezer 	25
		<ul style="list-style-type: none"> • Dental Mirror 	25
	D.DIAGNOSTIC INSTRUMENTS	<ul style="list-style-type: none"> • Dental Mirrors 	25
		<ul style="list-style-type: none"> • Probes 	25
	E.PROSTHETIC INSTRUMENTS	<ul style="list-style-type: none"> • Mixing Bowl 	20
		<ul style="list-style-type: none"> • Spatula 	20
		<ul style="list-style-type: none"> • Dispensing Gums 	20
		<ul style="list-style-type: none"> • Impression tray(upper&lower) 	20
		<ul style="list-style-type: none"> • Individual tray 	20
		<ul style="list-style-type: none"> • Alginate impression Materials 	As many as possible
		<ul style="list-style-type: none"> • Retraction Cord 	20
		<ul style="list-style-type: none"> • Crown & Bridge Scissors 	20

		<ul style="list-style-type: none"> • Crown removing Forceps 	20
		<ul style="list-style-type: none"> • Contouring Pliers 	20
		<ul style="list-style-type: none"> • Shade Guide 	20
		<ul style="list-style-type: none"> • Modelling way 	20
		<ul style="list-style-type: none"> • Wax Knife 	20
		<ul style="list-style-type: none"> • Diamond Burs 	20
		<ul style="list-style-type: none"> • Articulator 	10
	<u>F.SURGICAL INSTRUMENTS</u>	<ul style="list-style-type: none"> • Towel clips 	20
		<ul style="list-style-type: none"> • Mouth gag 	20
		<ul style="list-style-type: none"> • Cheek retractor 	20
		<ul style="list-style-type: none"> • Periosteal elevator 	20
		<ul style="list-style-type: none"> • Elevator 	20
		<ul style="list-style-type: none"> • Bone file 	20
		<ul style="list-style-type: none"> • Stackless steel scalpel handle 	20
		<ul style="list-style-type: none"> • Scapel blade 	20
		<ul style="list-style-type: none"> • Trimmer 	20
		<ul style="list-style-type: none"> • Surgical curette/ spoon curette- 	20
		<ul style="list-style-type: none"> • Curved surgical scissors 	20
		<ul style="list-style-type: none"> • Straight surgical scissors 	20
		<ul style="list-style-type: none"> • Extraction forcep 	20
		<ul style="list-style-type: none"> • Suction tubes- 20 	20
		<ul style="list-style-type: none"> • Anaesthetic syringe 	20
		<ul style="list-style-type: none"> • Surgical aspiration 	20
		<ul style="list-style-type: none"> • Bone chisel 	20
		<ul style="list-style-type: none"> • Suturing materials 	20
	<u>G.X-RAY ROOM</u>	<ul style="list-style-type: none"> • Auto X-ray processor 	4
		<ul style="list-style-type: none"> • Manual X-ray processor 	4

		<ul style="list-style-type: none"> • X-ray Machine 	2
		<ul style="list-style-type: none"> • Film hangers 	20
		<ul style="list-style-type: none"> • Lead aprons/gowns 	4
		<ul style="list-style-type: none"> • Reagents 	
		<ul style="list-style-type: none"> • x-ray films 	As many as possible
	<u>H.DENTAL CLINIC</u>	<ul style="list-style-type: none"> • Dental chairs 	4
		<ul style="list-style-type: none"> • Examination set- dental mirrors- Probes Tweezers 	20 sets 20 sets 20 sets
		<ul style="list-style-type: none"> • Disposable bibs 	As many as possible
		<ul style="list-style-type: none"> • Thermometer 	10
		<ul style="list-style-type: none"> • Hypodermic syringes 	As many as possible
	<u>I.CONSUMABLES</u>	<ul style="list-style-type: none"> • Cottonwool 	
		<ul style="list-style-type: none"> • Dycal 	
		<ul style="list-style-type: none"> • Zincozide eugenel 	
		<ul style="list-style-type: none"> • Gauze 	
		<ul style="list-style-type: none"> • Cotton rolls 	
		<ul style="list-style-type: none"> • Disposable suction tips 	
		<ul style="list-style-type: none"> • Hand gloves 	
		<ul style="list-style-type: none"> • Face mask 	
		<ul style="list-style-type: none"> • Disinfectants. 	
	<u>K.STERILIZATION ROOM</u>	<ul style="list-style-type: none"> • Digital Autoclave 	
		<ul style="list-style-type: none"> • Water boiling sterilization system- 	
3.	WORKSHOP/FIELD FACILITIES	Dental Departments at all General Hospital, state hospital and Teaching Hospitals in each state where training institution are located are recommended for workshop/field facilities for the students	

		The institution should have M.O.U with the centers to use their facilities for the students' practical experience.	
4.	TEACHING STAFF QUALIFICATIONS	<p>Teaching staff consists of Lecturers and instructors. A lecturer should possess a minimum and good honors degree or equivalent plus adequate number of year a teaching and industrial experience.</p> <p>An instructor should possess a minimum of a good higher national Diploma or equivalent and commendable number of years of teaching in industrial experience</p>	
5.	TEACHING STAFF (TECHNOLOGISTS AND TECHNICIANS)	<p>These ones are the technically qualified staff that are not involved in direct lecturing/instructing, but who provide virtual and indispensable services in the laboratories, workshop, dental clinic, school, use of machinery and equipment and other field facilities.</p> <p>The Technicians should possess ND OR Equivalent and are to be under supervision of technologies who should possess HND or equivalent qualification. Also, admitants and attendants are to be attached to each facility to ensure proper upkeep.</p>	
6.	ADMINISTRATIVE STAFF	<p>Secretary possess an ND or HND equivalent in office technology and management and should be the department secretary responsible to the HOD for proper academics and administrative record keeping in the department. Clerical officer to assist the secretary should possess a minimum of GCE "O" Level, SSCE or equivalent.</p> <p>A clerical messenger should also be available in the departmental office (where applicable)</p>	

7.	HEAD OF DEPARTMENT	<p>Head of department should possess a minimum of a good honors degree and higher degree or equivalent in the programme discipline registered with the relevant professional body. Should be of a rank not lower than Senior lecturer with not less than 10 years' post-graduation experience at ND level.</p> <p>And at HND level at least a principal lecturer with not less than 13 years post qualification experience, should be competent in academic and administrative matters.</p>	
8.	CLASSROOMS/LECTURE THEATRE	<p>Classrooms should be well ventilated, furnished and provided with ceiling fans, lighting, marker boards etc.</p> <p>Studio visuals and public address system should be provided.</p>	
9.	STAFF OFFICE ACCOMODATION	<p>Office accommodation should be spacious, furnished into chairs and tables, filing cabinets, book shelf. The office should be well ventilated and fans or air conditioner be provided.</p> <p>HOD's office should be adequately furnished, air conditioned, floor tiled or carpeted</p> <p>There should be an attached office for the secretary & other support staff.</p>	
10.	LIBRARY	<p>Current textbooks, periodicals/ journals (local and international) reference materials, E- resources & non book materials relevant to the programme should be adequate.</p> <p>Good shelves should be made where the books will be displayed and this should be properly labelled.</p>	

LIST OF PARTICIPANTS.

S/N	NAME	ORGANIZATION	DESIGNATION	PHONE NUMBER	EMAIL
1	OJO M. O. (MRS)	Dthrbn	Registrar/CE	8038094390	dtrbn@gmail.com
2	Dr. Isaac Adegola	Pogil	CEO	8060054548	isaacolagbanjo16@gmail.com
3	Dr. Kolawole Obagbemiro	NDA President	President	8023417155	kollydental@yahoo.com
4	Dr. Gloria Uzoigwe	FMOH	Director	8037860788	gloriauzogiwe@gmail.com
5	Mrs. Omoyajowo T.S	Ondo State(Local Govt)	Secretary	8039234483	yesomoya@gmail.com
6	Mrs. Adaramodu N.H	Ekiti State(L.G)	President	8035682146	ayomiposiadaramodu@gmail.com
7	Alausa Samsondeen	CHT Kwara State	President	7062607770	samastical90@gmail.com

8	Didioma Anthony	NDG Dental Therapist Assoc (VP)		7032894683	didiomaanthony@gmail.com
9	James B. Bakosi	President DST, Bayelsa	President	8038902689	Jamesbakosi@gmail.com
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