



Module (Course Syllabus) Catalogue 2022-2023

College/ Institute	Medical technical institute	
Department	Dental assistant	
Module Name	Equipment and Instrument	
Module Code	EQ1105	
Degree	Technical Diploma <input type="checkbox"/>	Bachelor <input type="checkbox"/>
	High Diploma <input type="checkbox"/>	Master / PhD <input type="checkbox"/>
Semester	1st	
Qualification	Equipment and Instrument	
Scientific Title	lecturer	
ECTS (Credits)	8	
Module type	Prerequisite <input type="checkbox"/>	Core <input type="checkbox"/> Assist. <input type="checkbox"/>
Weekly hours		
Weekly hours (Theory)	(2)hr Class	(4)Total hrs Workload
Weekly hours (Practical)	(2)hr Class	(4)Total hrs Workload
Number of Weeks	16	
Lecturer (Theory)	Shahida Rasul Husain	
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Lecturer (Practical)	Shahida Rasul Husain and Dyar Bakr	
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Websites		

Course Book

<p>Course Description</p>	<p>This Course is important for the students because it helps them to know the names and uses of all instruments used in deferent branches of dentistry because the main duty of them is to help the dentist during dental treatment procedure.</p>				
<p>Course objectives</p>	<ol style="list-style-type: none"> 1. introduce student to the names of all instruments used in dentistry 2. it necessary to the students to know the functions of all instruments used in dentistry. <p>teaching the student to know the procedures of sterilization, radio graphing and preparation of the patient for dental treatment procedures</p>				
<p>Student's obligation</p>	<p>Theory: lecture, group discussion, seminar, pair work, group work, role play, case-based learning</p> <p>Clinical practice: skill demonstration, case-based learning, group work, group discussion, clinical facilitation and debriefing, clinical mentorship, seminar, workshop.</p>				
<p>Required Learning Materials</p>	<p>Data show</p> <p>White board</p> <p>Dental instrument seen by naked eye</p>				
<p>Evaluation</p>	<p>Task</p>		<p>Weight (Marks)</p>	<p>Due Week</p>	<p>Relevant Learning Outcome</p>
	<p>Paper Review</p>				
	<p>A</p>	<p>Homework</p>	<p>10</p>		
	<p>S</p>	<p>Class Activity</p>	<p>2</p>		
<p>S</p>	<p>Report</p>	<p>10</p>			

	i g n m e n t s	Seminar	10		
		Essay	10		
		Project	10		
	Quiz		%4		
	Lab.				
	Midterm Exam		%16		
	Final Exam		%40		
	Total				
Specific learning outcome:	<p>1- They learn at the end of the coarse uses and function of the variety types dental instrument.</p> <p>2-</p> <p>3-</p> <p>4-</p> <p>5-</p> <p>6-</p>				
Course References:	<p>▪Key references: Dental journal Key references: Dental journal</p> <p>Art and since of operative dentistry Con temporary dental assistant</p> <p>▪Key references: Dental journal Useful references: carezza (book)</p> <p>▪Key references: Dental journal Magazines and review (internet): Dental journal</p>				
Course topics (Theory)			Week	Learning Outcome	
1-Definition of dental assistant, history of dentistry of dental assistant, design of dental room and branches of dentistry.			1		

2-Dental chair, parts of dental chair, design of dental chair parts, dentist chair, requirements of dentist chair, assistant chair and requirements of assistant chair.	2	
3-Materials used in dental instruments, terminology and classification.	3	
4-Basic instruments used in operative dentistry and instruments used with amalgam.	4	
5- Continuous to instruments used with amalgam, composite instrument. curing light, dental hand piece.	5	
6-Parts of bur, types of bur, mandrel bur, finishing bur, rubber polishing bur.	6	
7-Endodontic explorer, long shank excavator, reamers, file, gutta perucha, paper points, spreader, electronic apex locater, gates glidden burs.	7	
8-Elevators, ranger, bone file, surgical forceps, implant surgical system. Forceps, holders, scalp, suture, scissors, retractors, mouth opener, suckers.	8	
9-Laboratory coat, gloves, cassette, ultrasonic cleaning unit, sterilizer (oven and autoclave), sterilisation management system.	9	
10-x-ray machine, x-ray film, composition and type of the film, radiographic view, computerize x-ray sensor, processing of an x-ray film, techniques of intra oral radio graphing.	10	
11-Rubber bowel, spatula, knives, trays articulators, vibrators.	11	
12-Standardized tray set up, basic type of instrument grasp, finger rest position, oral evacuation.	12	
Practical Topics	Week	Learning Outcome
1—Introduction	1	

2-Dental room	2	
3-Instruments used in dentistry.	3	
4-Basic instruments used with amalgam.	4	
5-Instruments used with composite.	5	
6-Burs for high speed and low speed hand piece.	6	
7-Endodontic instrument.	7	
8-Oral surgical instrument.	8	
9-Instruments used in oral and maxillofacial surgery.	9	

Questions Example Design

1. Compositional: explain the black classification for instrument designing?

19. Examinations:

1. Compositional: explain the black classification for instrument designing? a/function – manner - shape – design

q/ what are the reason for non-cutting instrument a/ in order to not injury oral cavity soft tissue.2. True or false type of exams: q/chisel used for cavity preparation? a/ false q/inverted cone bur use for flare of cavity preparation?

a/ true

3. Multiple choices:

1. Dental explore(probe)use to

a. To retract lip, check, and tongue

b. To examine teeth for decay (caries) /answer

To provide in direct vision

Extra notes: I wish that bring all updated dental instrument that available in developed country

External Evaluator

- External Evaluator

Promote critical thinking of crucial course concepts. Identify and help students overcome the course. Lectures covered all aspects and fundamentals of dental instruments and equipment in dental assistant perspective.



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