

Equipment and Instrument Course Catalogue

2024-2023

Institute	Medical Technical Institute	
Department	Dental assistant	
Module Name	Equipment and Instrument	
Module Code	EQI105	
Semester	First	
Credit	8	
Module type	Prerequisite, Core, Assist.	
Weekly hours	2 hr Theory	2 hr Practical
Weekly hours (Theory)	(2)hr Class	(4)hr Workload
Weekly hours (Practical)	(2)hr Class	(4)hr Workload

به رێهههرايهتی دڵنیايي جۆری و وه به رایه تی لڤیایی جۆری و د نیايي وری و ج ری و Directorate of Quality Assurance and Accreditation

متمانە به
خشین

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Course Book

<p>- Course overview: 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>11. Course objective:</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 Theory: lecture, group discussion, seminar, pair work, group work, role play, case-based learning Clinical practice: skill demonstration, case-based learning, group work, group discussion, clinical facilitation and debriefing, clinical mentorship, seminar, workshop.</p>
<p>- Forms of teaching Data show White board Dental instrument seen by naked eye</p>
<p>- Assessment scheme 6% Mid. Theory exam 10% Mid. practical exam 4% Quiz 40% Activity 25% final practical 15% final theory</p>

<p>- Specific learning outcome: They learn at the end of the course uses and function of the variety types dental instrument.</p>		
<p>- Course Reading List and References : ▪Key references: Dental journal Key references: Dental journal Art and science of operative dentistry Contemporary dental assistant ▪Key references: Dental journal Useful references: Caranza (book) ▪Key references: Dental journal Magazines and review (internet): Dental journal</p>		
<p>- Course topics (Theory)</p>	<p>Week</p>	<p>Learning Outcome</p>
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 percha, paper points, spreader, electronic apex locator, Gates glidden burs.	7	
8-Elevators, ranger, bone file, surgical forceps, implant surgical system. Forceps, holders, scalps, 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, computerized x-ray sensor, processing of an x-ray film, techniques of intra oral radiography.	10	

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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

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متمانہ بہ
خشین

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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	
10-Sterilization of instruments .	10	
11-Radiology .	11	
12-Instruments of prosthodontics.	12	

- **Examinations (question 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
 - c. To provide in direct vision

- **Extra notes:**

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

- **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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