

Module (Course Syllabus) Catalogue 2025-2026

College/ Institute	Medical Technical Institute- Erbil	
Department	Nursing Cosmetics	
Module Name	Aesthetic Instruments	
Module Code	AEI 204	
Degree	Technical Diploma <input type="checkbox"/>	Bachelor <input type="checkbox"/>
	High Diploma <input type="checkbox"/>	Master <input type="checkbox"/> PhD <input checked="" type="checkbox"/>
Semester	2	
Qualification	Ph. D.	
Scientific Title	Assistant Professor	
ECTS (Credits)	6	
Module type	Prerequisite <input type="checkbox"/>	Core <input checked="" type="checkbox"/> Assist. <input type="checkbox"/>
Weekly hours		
Weekly hours (Theory)	(2)hr Class	(156)Total hrs Workload
Weekly hours (Practical)	(4)hr Class	(468)Total hrs Workload
Number of Weeks	8	
Lecturer (Theory)	Dr. Sarwar Ibrahim Saleh	
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Lecturer (Practical)	Midea Fathel,	
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Websites		

Course Book

Course Description	<p>This lecture is intended as an core textbook in aesthetic instruments and its applications in using devices techniques in applied academic medical graduate programs. The lecture may also be of interest for the large number of professional medical devices, who in their daily occupations deal with medical instruments and have a need to improve their understanding of techniques in the field cosmetics and to all medical postgraduate programs.</p>				
Course objectives	<p>This lecture is based on notes that we developed over the past years of teaching using medical devices to students in nursing cosmetic techniques department at the institute of medical technology. It contains a lot of topics, each topic covering a specific group of subjects related to medical instruments that form the basic knowledge required from professionals working in different medical devices in cosmetic fields.</p>				
Student's obligation	<p>In contrast to other aesthetic instruments specialties, such as techniques, how it is work, studies of modern medical aesthetic devices attract a much broader base of professionals including graduate students in medical instruments residents and technology students in learning medical devices educational programs. All these professionals have a common desire to improve their knowledge of the medical devices that underlies the application of instruments in learning.</p>				
Required Learning Materials	<p>lecture halls with data show equipment for lecture presentations, white board, overhead projector, posters</p>				
Evaluation	Task	Weight (Marks)	Due Week	Relevant Learning Outcome	
	Paper Review		-		
	Assignments	Homework	%10		
		Class Activity	%2		
		Report	%5		
		Seminar	%10		
		Essay	-		
		Project	-		
	Quiz		%8		
	Lab.		-		
	Midterm Exam		%25		
Final Exam		%40			

	Total	%100		
Specific learning outcome:	1- 2- 3- 4- Covering a specific group of subjects related to aesthetic instruments that form the basic knowledge required from professionals working in different medical devices fields. 5- All these professionals have a common desire to improve their knowledge of the medical devices that underlies the application of devices in learning the aesthetic field.			
Course References:	1- 2-			
Course topics (Theory)		Week	Learning Outcome	
I. Consultation and Skin Analysis Tools II. 1.Wood's Lamp: III. 2.Dermatoscopes: IV. 3.Skin Scanner / Visia Complexion Analysis System: V. II. Tools for Cleansing, Exfoliation, and Extraction VI. 4. Comedone Extractor: VII. 5.Facial Steamer:		1		
IV. Injection and Treatment Tools 14. Micro cannulas (Blunt-Tipped Cannulas): 15. Needles (Hypodermic): Botulinum Toxin <ol style="list-style-type: none"> 1. Introduction 2. Definition of Botulinum Toxin 3. Function of Botulinum Toxin 4. How Botulinum Toxin Works (Mechanism of Action) 5. Botulinum Toxin Specifications 6. Indications (Clinical Uses) <ol style="list-style-type: none"> 1. Aesthetic Indications: 2. Therapeutic Indications: 3. 7. Advantages of Botulinum Toxin 4. 8. Disadvantages of Botulinum Toxin 5. 9. Contraindications 6. 10. Post-Treatment Care 7. 11. Comparison: Botulinum Toxin vs. Dermal Fillers 		2		
Dermal Fillers <ol style="list-style-type: none"> 1. Introduction 2. Definition of Dermal Fillers 		3		

<ul style="list-style-type: none"> 3. 3. Function of Dermal Fillers 4. 4. How Dermal Fillers Work (Mechanism of Action) 5. 5. Types of Dermal Fillers 6. 6. Indications (Clinical Uses) 7. 7. Advantages of Dermal Fillers 8. 8. Disadvantages of Dermal Fillers 9. 9. Contraindications 10. 10. Post-Treatment Care 11. 11. Comparison: Dermal Fillers vs. Botulinum Toxin 		
<p>Microneedling Device (Dermapen)</p> <ul style="list-style-type: none"> 1. 1. Introduction 2. 2. Definition of Microneedling Device 3. 3. Components of a Microneedling Pen 4. 4. Function of Microneedling Devices 5. 5. How Microneedling Devices Work (Mechanism of Action) 6. 6. Needle Depths and Their Uses 7. 7. Indications (Clinical Uses) 8. 8. Advantages of Microneedling Devices 9. 9. Disadvantages of Microneedling Devices 10. 10. Contraindications 11. 11. Post-Treatment Care 12. 12. Comparison: Microneedling vs. Chemical Peel 	4	
Midterm Exam		
<p>Chemical Peel Applicators (Brushes, Gauze, Cotton)</p> <ul style="list-style-type: none"> 1. 1. Introduction 2. 2. Definition of Chemical Peel Applicators 3. 3. Function of Chemical Peel Applicators 4. 4. How Chemical Peel Applicators Work (Mechanism of Action) 5. 5. Indications (Clinical Uses) 6. 6. Advantages of Chemical Peel Applicators 7. 7. Disadvantages of Chemical Peel Applicators 8. 8. Contraindications 9. 9. Post-Treatment Considerations 10. 10. Comparison: Brushes vs. Gauze vs. Cotton 	5	
<p>6. Microdermabrasion Machine:</p> <ul style="list-style-type: none"> 1. 1. Introduction 2. 2. Definition of Microdermabrasion 3. 3. Function of the Microdermabrasion Machine 4. 4. Types of Microdermabrasion Machines 5. 5. How the Microdermabrasion Machine Works 6. 6. Indications (Who Can Benefit) 7. 7. Advantages of Microdermabrasion 8. 8. Disadvantages of Microdermabrasion 9. 9. Contraindications 	6	

7. Cryo Globes / Cryo Sticks: <ol style="list-style-type: none"> 1. Introduction 2. Definition of Cryo Globes / Cryo Sticks 3. Function of Cryo Globes / Cryo Sticks 4. Types of Cryo Tools 5. How Cryo Globes / Cryo Sticks Work 6. Indications (Uses in Aesthetic Practice) 7. Advantages of Cryo Globes / Cryo Sticks 8. Disadvantages of Cryo Globes / Cryo Sticks 9. Contraindications 10. Post-Treatment Care 	7	
Electromechanical Facial Devices <ol style="list-style-type: none"> 1. Introduction 2. 2. Definition of Electromechanical Facial Devices 3. 3. Common Types of Electromechanical Facial Devices 4. 4. Function of Electromechanical Facial Devices 5. 5. How Electromechanical Facial Devices Work (Mechanism of Action) 6. 6. Working Principles of Common Devices 7. 7. Indications (Clinical and Cosmetic Uses) 8. 8. Advantages of Electromechanical Facial Devices 9. 9. Disadvantages of Electromechanical Facial Devices 10. 10. Contraindications 11. 11. Post-Treatment Care 12. 12. Comparison: Manual Facial vs. Electromechanical Facial 	8	
Final Exam		
Practical Topics	Week	Learning Outcome
Microneedling Device (Dermapen) <ol style="list-style-type: none"> 1. 5. How Microneedling Devices Work (Mechanism of Action) 13. Advantages of Microneedling Devices 14. 9. Disadvantages of Microneedling Devices 15. Video link: 	1	
Chemical Peel Applicators (Brushes, Gauze, Cotton) <ol style="list-style-type: none"> 1. 4. How Chemical Peel Applicators Work (Mechanism of Action) 11. 6. Advantages of Chemical Peel Applicators 8. Disadvantages of Chemical Peel Applicators 9. Video link: 	2	
6. Microdermabrasion Machine: How the Microdermabrasion Machine Works Advantages of Microdermabrasion	3	

10. Disadvantages of Microdermabrasion 11. Video link:		
7.Cryo Globes / Cryo Sticks: 5. How Cryo Globes / Cryo Sticks Work Advantages of Cryo Globes / Cryo Sticks 8. Disadvantages of Cryo Globes / Cryo Sticks Video link:	4	
Electromechanical Facial Devices 1. 5. How Electromechanical Facial Devices Work (Mechanism of Action) 13. 8. Advantages of Electromechanical Facial Devices 14. 9. Disadvantages of Electromechanical Facial Devices Video link:	5	
8.Radiofrequency (RF) Devices: 5. How Radiofrequency Devices Work (Mechanism of Action) 7. Advantages of Radiofrequency Devices 8. Disadvantages of Radiofrequency Devices Video link:	6	
9.High-Intensity Focused Ultrasound (HIFU) Devices: 5. How HIFU Devices Work (Mechanism of Action) 7. Advantages of HIFU Devices 8. Disadvantages of HIFU Devices Video link:	7	
Ablative Lasers (CO₂ and Erbium Lasers) 6. How Ablative Lasers Work (Mechanism of Action) 7. 8. Advantages of Ablative Lasers 8. 9. Disadvantages of Ablative Lasers 9. Video link:	8	
Questions Example Design Q1/ Define the followings. Q2/ Fill the following blanks. Q3/ Solve the following mathematical question. Q4/ Enumerate the followings.		
Extra notes:		
External Evaluator دوای پیداچوندهوی کورس بوکی (پ.ی. د. سه روه ر ابراهيم صالح) له بابتهی نامیرهکانی جوتکاری پزشکی له نه نجامدا بوم دهرکوت بابهت و ناویشانی وانهکان به گشتی له روی زانستی و زمانه وانیهوه گونجاوه له گهل وانهکه و زانیاری قوتابیان پر دهکاتهوه لهو بواری که قوتابیان سوودی لی ببینن له پیشهکه یاندا. د. اسماعیل فتی پزشکی جوانکاری/ زانکوی ههولیری پزشکی		

