



Republic of Iraq Ministry of Higher Education and Scientific Research Ashur University College of Health and Medical Technologies Department of Dental Technologies

# **Academic Course Description**

## **Department of Dental Technologies**

Academic year 2024-2025

Course Name: Oral Histology / Second Stage

Course Code: (Not specified in the provided text)

Semester: First Semester: (15 weeks)

Academic Year: 2024-2025

Date of Description Preparation: 20/9/2024

Available Attendance Modes: Mandatory attendance

Total Study Hours/Total Units: 90 hours / 3 units

Course Instructor:

Name: M.D. Abdul Wahab Abdul Razzaq Katiya

Email:

Course Objectives:

- 1. General Objective: To familiarize the student with the structural and functional properties of oral and dental tissues, serving as an introduction to the study and understanding of diseases affecting oral and dental tissues.
- 2. Specific Objective: To enable students in the dental technologies department to understand the embryonic development of oral and dental tissues.

Learning and Teaching Strategies:

- 1. Lecture, and discussion lecture
- 2. Use of visual aids and short educational films
- 3. Interactive applications

Course Structure:

Week	Hours	Learning Outcomes	Unit Name or Topic	Learning Method	Assessment Method
1	5	The student learns about	Embryological development	Theoretical + Practical	Written tests, Attendance
2	5	The student understands the topic	Development of face	Theoretical + Practical	Written tests, Attendance
3	5	The student understands the topic	Development of oral cavity	Theoretical + Practical	Written tests, Attendance
4	5	The student understands the topic	Development of teeth	Theoretical + Practical	Written tests, Attendance

5	5	The student understands the topic	Amelogenesis	Theoretical + Practical	Written tests, Attendance
6	5	The student understands the topic	Enamel structure	Theoretical + Practical	Written tests, Attendance
7	5	The student understands the topic	Dentinogenesis	Theoretical + Practical	Written tests, Attendance
8	5	The student understands the topic	Dentine structure	Theoretical + Practical	Written tests, Attendance
9	5	The student understands the topic	Pulp	Theoretical + Practical	Written tests, Attendance
10	5	The student understands the topic	Cementogenesis	Theoretical + Practical	Written tests, Attendance
11	5	The student understands the topic	Cementum structure	Theoretical + Practical	Written tests, Attendance
12	5	The student understands the topic	Bone formation	Theoretical + Practical	Written tests, Attendance
13	5	The student understands the topic	Bone structure	Theoretical + Practical	Written tests, Attendance
14	5	The student understands the topic	Periodontal ligament	Theoretical + Practical	Written tests, Attendance

15	5	The student understands the topic	Oral mucosa	Theoretical + Practical	Written tests, Attendance				
Course A	Course Assessment:								
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	•	0	nents such as daily pr	<b>T</b>					
and writte	en exams,	and reports) $+ 25 pc$	oints for the practical	final exam $+35$	points for the				
theoretica	l final exa	am.							
Learning	and Teach	ning Resources:							
Required	Textbook	s (Curricular, if any	<i>i</i> ):						
1. "(	Dral anator	my, histology and e	mbryology, 6th edition	on"					
2. "E	Essentials	of Oral Histology a	nd Embryology, 6th I	Edition"					
Main Ref	Main References (Sources):								
Supportin	Supporting Books and References (Scientific Journals, Reports):								
Electronic	c Reference	ces, Websites:							

Course Name: Head and Neck Anatomy / Second Stage

Course Code:

Semester: Second Semester: (15 weeks)

Academic Year: 2024-2025

Date of Description Preparation: 20/9/2024

Available Attendance Modes: Mandatory attendance

Total Study Hours/Total Units: 90 hours / 4 units

Course Instructor:

Name: M.D. Mayadah Hameed Rasheed

Email: mayadah.hameed@au.edu.iq

Course Objectives:

- 3. General Objective: To familiarize the student with the details of oral, facial, and maxillofacial anatomy, which falls within their scope of work in dental prosthetics, serving maxillofacial prostheses.
- 4. Specific Objective: To enable students in the dental technologies department, both practically and theoretically, to study the most important anatomical landmarks relevant to the fabrication of dental and maxillofacial prostheses.

Learning and Teaching Strategies:

- 5. Lecture, and discussion lecture
- 6. Use of visual aids and short educational films
- 7. Interactive applications

Course Structure:

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Week	Hours	Learning Outcomes	Unit Name or Topic	Learning Method	Assessment Method
1	6	The student learns about	Introduction to the anatomy of head and neck	Theoretical + Practical	Written tests, Attendance
2	6	The student understands the topic	Anatomical terminology and anatomical position	Theoretical + Practical	Written tests, Attendance
3	6	The student understands the topic	The Skull: definition and description of the skull from the Anterior, superior, lateral & posterior views	Theoretical + Practical	Written tests, Attendance

4	6	The student understands the topic	Cranial bones: Frontal bone: description, parts, and articulation	Theoretical + Practical	Written tests, Attendance
5	6	The student understands the topic	Parietal bones: description, parts, and articulation	Theoretical + Practical	Written tests, Attendance
6	6	The student understands the topic	Sphenoid bone: description, parts, and articulation	Theoretical + Practical	Written tests, Attendance
7	6	The student understands the topic	Cranial bones: Temporal bone: description, parts, and articulation	Theoretical + Practical	Written tests, Attendance
8	6	The student understands the topic	Ethmoid bone: description, parts, and articulation	Theoretical + Practical	Written tests, Attendance
9	6	The student understands the topic	Occipital bone: description, parts, and articulation	Theoretical + Practical	Written tests, Attendance
10	6	The student understands the topic	Facial bones: Maxillary bones: description, parts and articulation	Theoretical + Practical	Written tests, Attendance
11	6	The student understands the topic	Palatine bone: description, parts and articulation	Theoretical + Practical	Written tests, Attendance
12	6	The student understands the topic	Facial bones: Mandible: description, parts and articulation	Theoretical + Practical	Written tests, Attendance
13	6	The student understands the topic	Zygomatic bone: description, parts and articulation	Theoretical + Practical	Written tests, Attendance

14	6	The student understands the topic	Facial bones: Nasal bone, lacrimal bone, inferior nasal concha, vomer	Theoretical + Practical	Written tests, Attendance
15	6	The student understands the topic	Nasal cavity: definition, walls	Theoretical + Practical	Written tests, Attendance

The total grade of 100 for each academic semester is distributed as follows: 40 points for annual effort (25 theoretical + 15 practical) based on student assignments such as daily preparation, daily, oral, monthly, and written exams, and reports. Additionally, there are 25 points for the practical final exam and 35 points for the theoretical final exam.

Learning and Teaching Resources:

Required Textbooks (Curricular, if any):

8. Essentials of Anatomy and Physiology

- 9. Gray's Anatomy for Students
- 10. Snell clinical anatomy by regions 9th ed.

Main References (Sources):

Supporting Books and References (Scientific Journals, Reports):

Electronic References, Websites:

1. Human Anatomy Atlas 2021 Full <u>2021.1.68-@EasyAPK</u>

2. <u>https://anatomytool.org/content/anatomy-standard-drawing-bones-neurocranium-anterior-view-no-labels</u>

Course Name: Crimes of the Ba'ath Party / Second Stage

Course Code:

Semester: First Semester: (15 weeks)

Academic Year: 2024-2025

Date of Description Preparation: 10/9/2024

Available Attendance Modes: Mandatory attendance

Total Study Hours/Total Units: 30 hours / 2 units

Course Instructor:

Name: M. M. Sara Ayad Ismail Hassan

Email: <u>Sara.ayad@au.edu.iq</u>

Course Objectives:

- 3. General Objective: To introduce the student to the crimes committed by the Ba'ath regime in Iraq.
- 4. Specific Objective: To introduce the student to the crimes committed by the Ba'ath regime in Iraq, making them aware of what happened, and entrusting them with preventing its recurrence.

Learning and Teaching Strategies:

- 5. Lectures
- 6. Interactive lecture
- 7. Use of data show

Course Structure:

Week	Hours	Required Learning Outcomes	Unit Name or Topic	Learning Method	Assessment Method
1 +2	2	The student learns about	Crimes of the Ba'ath regime according to the Iraqi Higher Criminal Court Law of 2005  Concept of crimes and their divisions  Definition of crime linguistically and technically 	Theoretical	Quiz + Attendance

			Types of crimes  Crimes of the Ba'ath regime according to the documentation of the Iraqi Higher Criminal Court Law of 2005  Types of international crimes  Decisions issued by the Higher Criminal Court		
3 -6	2	The student understands the topic	Psychological and social crimes and their effects, and the most prominent violations of the Ba'ath regime in Iraq  Psychological crimes  Mechanisms of psychological crimes  Effects of psychological crimes  Social crimes   Militarization of society The Ba'ath regime's stance on religion  Violations of Iraqi laws  Forms of	Theoretical	Quiz + Attendance

			human rights violations and crimes of authority  Some decisions on political and military violations of the Ba'ath regime  Locations of prisons and detention centers of the Ba'ath regime		
7-10	2	The student understands the topic	Environmental crimes of the Ba'ath regime in Iraq War and radiation pollution and mine explosions  Destruction of cities and villages (scorched earth policy)  Drying of the marshes  Bulldozing palm groves, trees, and crops	Theoretical	Quiz + Attendance
11-15	2	The student understands the topic	Mass grave crimes  Events of the mass extermination graves committed by the Ba'ath regime in Iraq	Theoretical	Quiz + Attendance

	  Chronological classification of mass extermination graves in Iraq for the period 1963- 2003.			
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The total grade of 100 is distributed as follows: 30 points for annual effort based on student assignments such as daily preparation, daily, oral, monthly, and written exams, and reports + 70 points for the theoretical final exam.

Learning and Teaching Resources:

Required Textbooks (Curricular, if any):

8. Salim Matar, Iraqi Environment Encyclopedia, First Edition, 2010.

Main References (Sources):

- 9. Salim Aqari, Environmental Impacts of the Use of Weapons of Mass Destruction in International Wars.
- 10. Ayman Abdul Aziz Salama, International Responsibility for Committing Genocide Crimes.

Supporting Books and References (Scientific Journals, Reports):

Electronic References, Websites:

Course Name: Computer Applications 1 / Second Stage

Course Code:

Semester: First Semester: (15 weeks)

Academic Year: 2024-2025

Date of Description Preparation: 10/11/2024

Available Attendance Modes: Mandatory attendance

Total Study Hours/Total Units: 45 hours / 2 units

Course Instructor:

Name: M. D. Rabie Ali

Email:

Course Objectives:

- 11. General Objective: To provide students with skills in using basic office applications, creating office files and documents, utilizing the operating system, and understanding the fundamentals of working in a digital environment.
- 12. Specific Objective: To equip students with knowledge in managing and using various computer applications.

Learning and Teaching Strategies:

- 13. Lectures
- 14. Use of visual aids in the classroom
- 15. Interactive lectures
- 16. Use of data show

Course Structure:

Week	Hours	Required Learning Outcomes	Unit Name or Topic	Learning Method	Assessment Method
1	2	The student learns about	Introduction to Excel, its benefits, specifications, concept, and operating method	Theoretical	Quiz + Attendance
2	2	The student understands the topic	Getting acquainted with the main screen, its components,	Theoretical	Quiz + Attendance

			tools, and menu bar		
3	2	The student understands the topic	Data entry and working with tables	Theoretical	Quiz + Attendance
4	2	The student understands the topic	Entering data in cells, types of data entered in cells	Theoretical	Quiz + Attendance
5	2	The student understands the topic	How to create simple calculations (formulas) within cells and apply them to other cells	Theoretical	Quiz + Attendance
6	2	The student understands the topic	How to create simple calculations (formulas) within cells and apply them to other cells	Theoretical	Quiz + Attendance
7	2	The student understands the topic	Using some common functions: Count, Sqrt, Average, Sum, Min, Max	Theoretical	Quiz + Attendance
8	2	The student understands the topic	Cell editing process: copying data, moving it, copying	Theoretical	Quiz + Attendance

			calculations, absolute and relative cells		
9	2	The student understands the topic	Controlling cell display, changing its style through formatting tools	Theoretical	Quiz + Attendance
10	2	The student understands the topic	Dealing with Charts: their components, different elements, and understanding their types	Theoretical	Quiz + Attendance
11	2	The student understands the topic	Methods of creating charts, choosing different chart types, and their concept	Theoretical	Quiz + Attendance
12	2	The student understands the topic	Methods of creating charts, choosing different chart types, and their concept	Theoretical	Quiz + Attendance
13	2	The student understands the topic	Modifying data and charts and performing various edits on them	Theoretical	Quiz + Attendance
14	2	The student understands the topic	Dealing with Lists: conditions	Theoretical	Quiz + Attendance

			for creating a list, sorting lists		
15	2	The student understands the topic	Dealing with Lists: conditions for creating a list, sorting lists	Theoretical	Quiz + Attendance

The total grade of 100 is distributed as follows: 40 points for annual effort (25 theoretical + 15 practical) based on student assignments such as daily preparation, daily, oral, monthly, and written exams, and reports. Additionally, there are 25 points for the practical final exam and 35 points for the theoretical final exam.

Learning and Teaching Resources:

Required Textbooks (Curricular, if any):

Main References (Sources): (Not specified in the provided text)

Supporting Books and References (Scientific Journals, Reports):

Electronic References, Websites:

Course Name: Basic Partial Denture / Second Stage

Course Code:

Semester: Second Semester: (15 weeks)

Academic Year: 2024-2025

Date of Description Preparation: 20/9/2024

Available Attendance Modes: Mandatory attendance

Total Study Hours/Total Units: 105 hours / 4 units

Course Instructor:

Name: M. M. Abeer Adnan Nouri

Email: abeeradnan321@Gmail

Course Objectives:

- 17. General Objective: To familiarize the student with the basic steps involved in the fabrication of acrylic removable partial dentures.
- 18. Specific Objective: To enable dental technology students to know the basic steps involved in the fabrication of acrylic removable partial dentures.

Learning and Teaching Strategies:

- 19. Lecture, and discussion lecture
- 20. Use of visual aids and short educational films
- 21. Interactive applications

Course Structure:

Week	Hours	Learning Outcomes	Unit Name or Topic	Learning Method	Assessment Method
1	7	The student learns about	Removable Partial Denture (Terms and Components)	Theoretical + Practical	Written tests, Attendance
2	7	The student understands the topic	Kennedy classification.	Theoretical + Practical	Written tests, Attendance
3	7	The student understands the topic	Acrylic Removable Partial Denture	Theoretical + Practical	Written tests, Attendance
4	7	The student understands the topic	Special tray, occlusal rim and design the	Theoretical + Practical	Written tests, Attendance

			trimming of master cat		
5	7	The student understands the topic	Surveying procedure	Theoretical + Practical	Written tests, Attendance
6	7	The student understands the topic	Articulating and Mounting procedure	Theoretical + Practical	Written tests, Attendance
7	7	The student understands the topic	Clasp assembly	Theoretical + Practical	Written tests, Attendance
8	7	The student understands the topic	Selection of artificial teeth	Theoretical + Practical	Written tests, Attendance
9	7	The student understands the topic	Setting of artificial teeth	Theoretical + Practical	Written tests, Attendance
10	7	The student understands the topic	Waxing of acrylic partial denture	Theoretical + Practical	Written tests, Attendance
11	7	The student understands the topic	Flasking procedure	Theoretical + Practical	Written tests, Attendance
12	7	The student understands the topic	Curing, Finishing and Polishing Procedure	Theoretical + Practical	Written tests, Attendance
13	7	The student understands the topic	Selective grinding	Theoretical + Practical	Written tests, Attendance
14	7	The student understands the topic	Repairing of acrylic P.D	Theoretical + Practical	Written tests, Attendance

15 7 uno	The studentA flexible removationnderstandspartial denture	ble Theoretical + Practical	Written tests, Attendance
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The total grade of 100 for each academic semester is distributed as follows: 40 points for annual effort (25 theoretical + 15 practical) based on student assignments such as daily preparation, daily, oral, monthly, and written exams, and reports + 25 points for the practical final exam + 35 points for the theoretical final exam.

Learning and Teaching Resources:

Required Textbooks (Curricular, if any):

22. Text book of CD

23. Bouchers prosthodontic treatment for Edentulous patients

Main References (Sources):

Supporting Books and References (Scientific Journals, Reports):

- 24. Al-Taqni Magazine
- 25. Baghdad University Journal of Dentistry
- 26. Al-Mustansiriya Journal of Dentistry

Electronic References, Websites:

- 1. Ashur University website
- 2. College of Health and Medical Technologies Baghdad website

Course Name: Basic Complete Denture / Second Stage

Course Code:

Semester: First Semester: (15 weeks)

Academic Year: 2024-2025

Date of Description Preparation: 20/9/2024

Available Attendance Modes: Mandatory attendance

Total Study Hours/Total Units: 105 hours / 4 units

Course Instructor:

Name: M. M. Abeer Adnan Nouri

Email: abeeradnan321@Gmail

Course Objectives:

- 3. General Objective: To familiarize the student with the basic steps involved in the fabrication of acrylic complete dentures.
- 4. Specific Objective: To enable dental technology students to know the basic steps involved in the fabrication of acrylic complete dentures.

Learning and Teaching Strategies:

- 5. Lecture, and discussion lecture
- 6. Use of visual aids and short educational films
- 7. Interactive applications

Course Structure:

Week	Hours	Learning Outcomes	Unit Name or Topic	Learning Method	Assessment Method	
1	1 7 The studen learns abou		Complete denture terminology: definition & objective	Theoretical + Practical	Written tests, Attendance	
2	7	The student understands the topic	Anatomical landmarks of the maxillary edentulous arch	Theoretical + Practical	Written tests, Attendance	
3	7	The student understands the topic	Anatomical landmarks of the mandibular edentulous arch	Theoretical + Practical	Written tests, Attendance	

4	7	The student understands the topic	Materials used for primary, secondary and boxing impression	Theoretical + Practical	Written tests, Attendance
5	7	The student understands the topic	Special trays, Record base and Occlusal rim: definition, properties & materials used for construction	Theoretical + Practical	Written tests, Attendance
6	7	The student understands the topic	Maxillo- mandibular relationship	Theoretical + Practical	Written tests, Attendance
7	7	The student understands the topic	Articulator and mounting: definition, uses & types	Theoretical + Practical	Written tests, Attendance
8	7	The student understands the topic	Occlusion (balance occlusion)	Theoretical + Practical	Written tests, Attendance
9	7	The student understands the topic	Selection of anterior & posterior teeth	Theoretical + Practical	Written tests, Attendance
10	7	The student understands the topic	Guidelines for artificial teeth arrangement & Arrangement of anterior teeth	Theoretical + Practical	Written tests, Attendance

11	7	The student understands the topic	Arrangement of posterior teeth	Theoretical + Practical	Written tests, Attendance
12	7	The student understands the topic	Waxing, carving & post dam	Theoretical + Practical	Written tests, Attendance
13	7	The student understands the topic	Flasking and de- flasking	Theoretical + Practical	Written tests, Attendance
14	7	The student understands the topic	Packing and curing	Theoretical + Practical	Written tests, Attendance
15	7	The student understands the topic	Finishing and polishing	Theoretical + Practical	Written tests, Attendance

The total grade of 100 for each academic semester is distributed as follows: 40 points for annual effort (25 theoretical + 15 practical) based on student assignments such as daily preparation, daily, oral, monthly, and written exams, and reports + 25 points for the practical final exam + 35 points for the theoretical final exam.

Learning and Teaching Resources:

Required Textbooks (Curricular, if any):

8. Textbook of CD

9. Bouchers prosthodontic treatment for Edentulous patients

Main References (Sources):

Supporting Books and References (Scientific Journals, Reports): (Not specified in the provided text)

Electronic References, Websites:

Course Name: Oral Physiology / Second Stage

Course Code:

Semester: Second Semester: (15 weeks)

Academic Year: 2024-2025

Date of Description Preparation: 20/9/2024

Available Attendance Modes: Mandatory attendance

Total Study Hours/Total Units: 90 hours / 4 units

Course Instructor:

Name: M.D. Abdul Wahab Abdul Razzaq Katiya

Email:

Course Objectives:

- 10. General Objective: To familiarize the student with the structural and functional properties of oral and dental tissues, serving as an introduction to the study and understanding of diseases affecting oral and dental tissues.
- 11. Specific Objective: To enable students in the dental technologies department to understand the embryonic development of oral and dental tissues.

Learning and Teaching Strategies:

- 12. Lecture, and discussion lecture
- 13. Use of visual aids and short educational films
- 14. Interactive applications

Course Structure:

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Week	Hours	Learning Outcomes	Unit Name or Topic	Learning Method	Assessment Method		
1	6	The student learns about	Introduction and how the body functions control	Theoretical + Practical	Written tests, Attendance		
2	6	The student understands the topic	Physiology of circulatory system: the function of each part	Theoretical + Practical	Written tests, Attendance		
3	6	The student understands the topic	Physiology of blood circulation: types of blood circulation	Theoretical + Practical	Written tests, Attendance		

4	6	The student understands the topic	Blood: definition and composition	Theoretical + Practical	Written tests, Attendance
5	6	The student understands the topic	Blood: functions	Theoretical + Practical	Written tests, Attendance
6	6	The student understands the topic	Blood: The formed elements of blood and normal values	Theoretical + Practical	Written tests, Attendance
7	6	The student understands the topic	Blood groups: ABO system and RH system	Theoretical + Practical	Written tests, Attendance
8	6	The student understands the topic	Physiology of oral cavity and digestive process: Saliva and salivary glands	Theoretical + Practical	Written tests, Attendance
9	6	The student understands the topic	Saliva: composition and functions of saliva in mastication and speech	Theoretical + Practical	Written tests, Attendance
10	6	The student understands the topic	Physiology of tongue and taste sensation	Theoretical + Practical	Written tests, Attendance
11	6	The student understands the topic	Physiology of the teeth: the role of teeth arrangement in mastication	Theoretical + Practical	Written tests, Attendance
12	6	The student understands the topic	Physiology of muscles of mastication	Theoretical + Practical	Written tests, Attendance
13	6	The student understands the topic	Physiology of the pharynx and	Theoretical + Practical	Written tests, Attendance

			velopharyngeal competence		
14	6	The student understands the topic	Physiology of the soft palate	Theoretical + Practical	Written tests, Attendance
15	6	The student understands the topic	Defects of soft palates	Theoretical + Practical	Written tests, Attendance

The total grade of 100 for each academic semester is distributed as follows: 40 points for annual effort (based on student assignments such as daily preparation, daily, oral, monthly, and written exams, and reports) + 25 points for the practical final exam + 35 points for the theoretical final exam.

Learning and Teaching Resources:

15. Required Textbooks (Curricular, if any): Essentials of Anatomy and Physiology

Main References (Sources):

Supporting Books and References (Scientific Journals, Reports):

Electronic References, Websites:

Course Name: Dental Materials

Course Code:

Semester:

- 16. First Semester: Dental Materials (Advanced 1) (15 weeks)
- 17. Second Semester: Dental Materials (Advanced 2) (15 weeks)

Academic Year: 2024-2025

Date of Description Preparation: 11/9/2024

Available Attendance Modes: Mandatory attendance

Total Study Hours/Total Units:

- 18. First Course: 105 hours / 4 units
- 19. Second Course: 105 hours / 4 units

Course Instructors:

- 20. Name: M.D. Noor Hassan Abdullah
- 21. Email: <u>noorha443@gmail.com</u>
- 22. Name: Dr. Hassan Abdul Rahim Karim
- 23. Email: <u>hassandentist71@yahoo.com</u>

Course Objectives:

- 24. General Objective: To familiarize students with the basic dental materials used in dental manufacturing sciences. To understand the principles of dental materials science and the terminology used in this field, and how to handle them.
- 25. Specific Objective: To enable dental technology students to understand the chemical, physical, biological, and mechanical properties of dental materials. To understand the structures and methods of using metals, polishing materials, ceramics, and various types of waxes and acrylic resins used in dentistry.

Learning and Teaching Strategies:

- 26. Lectures
- 27. Use of visual aids in the classroom
- 28. Interactive lectures
- 29. Use of data show

#### Course Structure:

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Wee	Week Hours Learni	Required Learning Outcomes	Unit Name or Topic	Learning Method	Assessment Method	
			First Semes	ter / Dental Materials (Adv	vanced 1)	
1		7	The student learns about the topic	Gypsum products: types, properties, and manipulation	Theoretical + Practical	Quiz + Attendance



2	7	The student understands the topic	Dental waxes: types, properties, and manipulation	Theoretical + Practical	Quiz + Attendance
3	7	The student understands the topic	Impression materials: elastic impression materials (Agar, alginate)	Theoretical + Practical	Quiz + Attendance
4	7	The student understands the topic	Non-elastic impression materials (Impression plaster, impression compound, ZOE)	Theoretical + Practical	Quiz + Attendance
5	7	The student understands the topic	Elastomeric impression materials (Polysulfide, silicone, polyether)	Theoretical + Practical	Quiz + Attendance
6	7	The student understands the topic	Investments: definition, composition, properties, and types	Theoretical + Practical	Quiz + Attendance
7	7	The student understands the topic	Metals (precious metals, base metals)	Theoretical + Practical	Quiz + Attendance
8	7	The student understands the topic	Dental amalgam	Theoretical + Practical	Quiz + Attendance
9	7	The student understands the topic	Acrylic resins: types, properties, and uses	Theoretical + Practical	Quiz + Attendance
10	7	The student understands the topic	Denture base resin and soft liners	Theoretical + Practical	Quiz + Attendance
11	7	The student understands the topic	Curing of acrylic resins and problems	Theoretical + Practical	Quiz + Attendance
12	7	The student understands the topic	Denture liners (Relining and rebasing)	Theoretical + Practical	Quiz + Attendance
13	7	The student understands the topic	Heat curing resins	Theoretical + Practical	Quiz + Attendance

14	7	The student understands the topic	Light curing resins	Theoretical + Practical	Quiz + Attendance
15	7	The student understands the topic	Self curing resins	Theoretical + Practical	Quiz + Attendance
		Second Seme	ster / Dental Materials (Ad	lvanced 2)	
1	7	The student learns about the topic	Dental ceramics: types, properties, and uses	Theoretical + Practical	Quiz + Attendance
2	7	The student understands the topic	Dental ceramics: advantages and disadvantages	Theoretical + Practical	Quiz + Attendance
3	7	The student understands the topic	Porcelain fused to metal restorations: clinical procedures	Theoretical + Practical	Quiz + Attendance
4	7	The student understands the topic	Porcelain fused to metal restorations: laboratory procedures	Theoretical + Practical	Quiz + Attendance
5	7	The student understands the topic	All ceramic restorations: felspathic all ceramic restoration	Theoretical + Practical	Quiz + Attendance
6	7	The student understands the topic	All ceramic restorations: sintered all ceramic restoration	Theoretical + Practical	Quiz + Attendance
7	7	The student understands the topic	All ceramic restorations: heat pressed restoration	Theoretical + Practical	Quiz + Attendance
8	7	The student understands the topic	CAD Cam and machined restoration	Theoretical + Practical	Quiz + Attendance
9	7	The student understands the topic	Hard milling	Theoretical + Practical	Quiz + Attendance
10	7	The student understands the topic	Soft milling	Theoretical + Practical	Quiz + Attendance

11	7	The student understands the topic	Zirconia in dentistry	Theoretical + Practical	Quiz + Attendance
12	7	The student understands the topic	Maxillofacial prosthesis classification	Theoretical + Practical	Quiz + Attendance
13	7	The student understands the topic	Maxillofacial prosthesis materials used	Theoretical + Practical	Quiz + Attendance
14	7	The student understands the topic	3D printer Technologies, types	Theoretical + Practical	Quiz + Attendance
15	7	The student understands the topic	3D printer technologies, materials used	Theoretical + Practical	Quiz + Attendance

The total grade of 100 for each academic semester is distributed as follows: 40 points for annual effort (25 theoretical + 15 practical) based on student assignments such as daily preparation, daily, oral, monthly, and written exams, and reports + 25 points for the practical final exam + 35 points for the theoretical final exam.

Learning and Teaching Resources:

Required Textbooks: Phillips' Science of Dental Materials2012

Craig's Restorative Dental Materials 2012

Anderson's applied dental materials

Main References (Sources):

Supporting Books and References (Scientific Journals, Reports):

Electronic References, Websites:

Course Name: Crowns and Bridges:

First Course: Basic Crowns (15 weeks)

Second Course: Advanced Crowns (15 weeks)

Course Code: Second Stage

Academic Year: 2024/2025

Date of Description Preparation: 21/9/2024

Available Attendance Modes: Mandatory attendance

Total Study Hours/Total Units: 210 hours / 4 units

Course Instructor:

Name: M. M. Rana Muwafaq Khudair

Email: dr.ranamj@gmail.com

Course Objectives:

- 4. To familiarize the student with the materials used in the fabrication of crowns and bridges and how to handle them.
- 5. To enable dental technology students to fabricate fixed crowns and bridges.

Learning and Teaching Strategies:

- 6. Lectures
- 7. Use of visual aids in the classroom
- 8. Interactive lectures
- 9. Use of data show

Course Structure:

	First Semester / Basic Crowns								
Week	Hours	Required Learning Outcomes	Unit Name or Topic	Learning Method	Assessment Method				
1	7	The student Introduction to C learns about the and Bridge topic		Theoretical + Practical	Quiz + Attendance				
2	7	The student understands the topic	Types of Crowns	Theoretical + Practical	Quiz + Attendance				
3	7	The student understands the topic	Requirements for a Good Crown	Theoretical + Practical	Quiz + Attendance				
4	7	The student understands the topic	Design and Preparation of Crowns	Theoretical + Practical	Quiz + Attendance				

5	7	The student understands the	Materials Used in Crown Fabrication	Theoretical + Practical	Quiz + Attendance
6	7	topic The student understands the topic	Impression Taking for Crowns	Theoretical + Practical	Quiz + Attendance
7	7	The student understands the topic	Pouring Special Cement for High-Temperature Furnace Around Wax Molds	Theoretical + Practical	Quiz + Attendance
8	7	The student understands the topic	Methods of Pouring High-Temperature Cement	Theoretical + Practical	Quiz + Attendance
9	7	The student understands the topic	Methods of Baking Wax Molds Inside the High- Temperature Furnace	Theoretical + Practical	Quiz + Attendance
10	7	The student understands the topic	Problems Related to Baking Wax Molds Inside the High- Temperature Furnace	Theoretical + Practical	Quiz + Attendance
11	7	The student understands the topic	Methods and Tools Used for Casting Metal Alloy	Theoretical + Practical	Quiz + Attendance
12	7	The student understands the topic	Metal Alloy Casting Devices	Theoretical + Practical	Quiz + Attendance
13	7	The student understands the topic	Steps of Metal Alloy Casting	Theoretical + Practical	Quiz + Attendance
14	7	The student understands the topic	Trimming and Smoothing of Dental Casts After Metal Alloy Casting	Theoretical + Practical	Quiz + Attendance
15	7	The student understands the topic	Problems Related to Metal Alloy Casting and How to Avoid Them	Theoretical + Practical	Quiz + Attendance
		Secon	d Course: Advanced Crow	<b>ns</b>	

1	7	The student learns about the topic	Fabrication of the wax pattern of the incisors teeth	Theoretical + Practical	Quiz + Attendance
2	7	The student understands the topic	Fabrication of the wax pattern of the canine tooth	Theoretical + Practical	Quiz + Attendance
3	7	The student understands the topic	Fabrication of the wax pattern of the premolar teeth	Theoretical + Practical	Quiz + Attendance
4	7	The student understands the topic	Fabrication of the wax pattern of the molar teeth	Theoretical + Practical	Quiz + Attendance
5	7	The student understands the topic	Spruing of the anterior wax pattern	Theoretical + Practical	Quiz + Attendance
6	7	The student understands the topic	Spruing of the posterior wax pattern	Theoretical + Practical	Quiz + Attendance
7	7	The student understands the topic	Investing the wax pattern, equipment	Theoretical + Practical	Quiz + Attendance
8	7	The student understands the topic	Investing the wax pattern procedure	Theoretical + Practical	Quiz + Attendance
9	7	The student understands the topic	Burn out of the wax pattern: procedure	Theoretical + Practical	Quiz + Attendance
10	7	The student understands the topic	Burn out of the wax pattern: problems	Theoretical + Practical	Quiz + Attendance
11	7	The student understands the topic	Casting procedure, equipment	Theoretical + Practical	Quiz + Attendance
12	7	The student understands the topic	The casting machine	Theoretical + Practical	Quiz + Attendance
13	7	The student understands the topic	The casting technique	Theoretical + Practical	Quiz + Attendance

14	7	The student understands the topic	Finishing procedure of the casting	Theoretical + Practical	Quiz + Attendance			
15	7	The student understands the topic	Problems associated with the Finishing procedure of the casting	Theoretical + Practical	Quiz + Attendance			
Course	Course assessment							
The tota	l grade o	of 100 for each ac	ademic semester is distribute	ed as follows: 40	points for			
annual e	effort (25	5 theoretical $+15$	practical) based on student as	ssignments such	as daily			
preparat	ion, dail	y, oral, monthly, a	and written exams, and repor	ts + 25 points fo	or the practical			
final exa	am + 35	points for the theo	pretical final exam.					
Learnin	g and Te	aching Resources	:					
Require	d Textbo	ooks (Curricular, i	f any):					
Contemporary fixed prosthodontics/ 5 <sup>th</sup> edition.								
Shillingburg Fundamentals of fixed prosthodontics.								
Main References (Sources):								

Supporting Books and References (Scientific Journals, Reports): Electronic References, Websites:

Course Name: Chemistry / Second Stage

Course Code:

Semester:

10. First Semester: Basic Chemistry (15 weeks)

11. Second Semester: Advanced Chemistry (15 weeks)

Academic Year: 2024-2025

Date of Description Preparation: 11/9/2024

Available Attendance Modes: Mandatory attendance

Total Study Hours/Total Units:

- 12. First Course: 90 hours / 4 units
- 13. Second Course: 90 hours / 4 units

Course Instructor:

Name: M. M. Ali Mohammed Abbas

Email: <u>ali.mohammed@au.edu.iq</u>

Course Objectives:

- 14. General Objective: To familiarize students with the basics of chemical structures of most dental materials and how to handle them.
- 15. Specific Objective: To enable dental technology students to understand the molecular and structural composition of dental materials.
- Learning and Teaching Strategies:
- 16. Lectures
- 17. Use of visual aids in the classroom
- 18. Interactive lectures
- 19. Use of data show

Course Structure:

	First Semester / Basic Chemistry						
Week	Hours	Required Learning Outcomes	Unit Name or Topic	Learning Method	Assessment Method		
1	6	The student learns about	Introduction to General Chemistry (Matter).	Theoretical + Practical	Quiz + Attendance		

			Classification of matter.		
2	6	The student understands the topic	Atom, atomic number, mass number, atomic mass and isotopes.	Theoretical + Practical	Quiz + Attendance
3	6	The student understands the topic	Periodic table.	Theoretical + Practical	Quiz + Attendance
4	6	The student understands the topic	Chemical bonds.	Theoretical + Practical	Quiz + Attendance
5	6	The student understands the topic	Method of analysis, solutions, standard solutions.	Theoretical + Practical	Quiz + Attendance
6	6	The student understands the topic	Molarity, molality, normality and dilution.	Theoretical + Practical	Quiz + Attendance
7	6	The student understands the topic	Chemical reactions, equilibrium constant, reaction rout, catalyst.	Theoretical + Practical	Quiz + Attendance
8	6	The student understands the topic	Solubility and ionization.	Theoretical + Practical	Quiz + Attendance

9	6	The student understands the topic	Neutralization analysis, acid and base theory.	Theoretical + Practical	Quiz + Attendance
10	6	The student understands the topic	PH, buffers and end point.	Theoretical + Practical	Quiz + Attendance
11	6	The student understands the topic	Spectroscopy (Optical spectroscopy).	Theoretical + Practical	Quiz + Attendance
12	6	The student understands the topic	Beers law.	Theoretical + Practical	Quiz + Attendance
13	6	The student understands the topic	Lipids.	Theoretical + Practical	Quiz + Attendance
14	6	The student understands the topic	Proteins.	Theoretical + Practical	Quiz + Attendance
15	6	The student understands the topic	Enzymes and vitamins.	Theoretical + Practical	Quiz + Attendance
		Second S	emester / Advanced Chen	nistry	

1	6	The student learns about	Alcohols, their properties and reactions.	Theoretical + Practical	Quiz + Attendance
2	6	The student understands the topic	Ethers, their properties and reactions.	Theoretical + Practical	Quiz + Attendance
3	6	The student understands the topic	Aldehydes and ketones, their properties and reactions.	Theoretical + Practical	Quiz + Attendance
4	6	The student understands the topic	Carboxylic acids and their derivatives, their properties and their reactions.	Theoretical + Practical	Quiz + Attendance
5	6	The student understands the topic	Phenols and their properties and their reactions.	Theoretical + Practical	Quiz + Attendance
6	6	The student understands the topic	Amines, aromatic hydrocarbons and polynuclear aromatic compounds.	Theoretical + Practical	Quiz + Attendance
7	6	The student understands the topic	Introduction to biochemistry (carbohydrates).	Theoretical + Practical	Quiz + Attendance
8	6	The student understands the topic	Amino acids and proteins.	Theoretical + Practical	Quiz + Attendance
9	6	The student understands the topic	Introduction to polymer chemistry.	Theoretical + Practical	Quiz + Attendance
10	6	The student understands the topic	Polymers, classification and their properties.	Theoretical + Practical	Quiz + Attendance
11	6	The student understands the topic	Reactions of polymer.	Theoretical + Practical	Quiz + Attendance
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12	6 The student understands the topic	understands	Natural polymers and their uses.	Theoretical + Practical	Quiz + Attendance
13	6	The student understands the topic	The mechanics of elastic solids.	Theoretical + Practical	Quiz + Attendance
14	6	The student understands the topic	Stress-Strain curve.	Theoretical + Practical	Quiz + Attendance
15	6	The student understands the topic	Green chemistry.	Theoretical + Practical	Quiz + Attendance

Course Assessment:

The total grade of 100 for each academic semester is distributed as follows: 40 points for annual effort (25 theoretical + 15 practical) based on student assignments such as daily preparation, daily, oral, monthly, and written exams, and reports + 25 points for the practical final exam + 35 points for the theoretical final exam.

Learning and Teaching Resources:

Required Textbooks (Curricular, if any): Organic Chemstry, C E Houseroft and A G Sharp Sec. Ed. 2005

Main References (Sources):

Supporting Books and References (Scientific Journals, Reports):

Electronic References, Websites:

Course Name: Dental Equipment / First Stage

Course Code:

Semester:

20. First Semester: Dental Equipment (Basic) (15 weeks)

21. Second Semester: Dental Equipment (Advanced) (15 weeks)

Academic Year: 2024-2025

Date of Description Preparation: September 11, 2024

Attendance Type: Mandatory

Total Credit Hours/Units:

22. First Course: 105 hours / 4 units

23. Second Course: 105 hours / 4 units

24. Course Coordinator:

25. Name: Asst. Prof. Noor Hassan Abdullah

26. Email: <u>noorha443@gmail.com</u>

Course Objectives:

- 27. To introduce the student to dental devices and technologies, their components, operation, and maintenance.
- 28. To enable dental technologies students to use, maintain, and service dental devices.

Learning and Teaching Strategies:

29. Lectures, use of visual aids in the classroom, interactive lectures, use of data show.

Course Structure:

	First Semester / Basic Dental Equipment								
Week	Hours	Required Learning Outcomes	Unit/Topic Name	Learning Method	Assessment Method				
1	7	The student identifies	Introduction. Dental laboratories, The work in the lab,	Theoretical + Practical	Quiz + Attendance				

			The principle of the ideal lab		
2	7	The student understands the topic	Hand instruments uses in the Dental laboratories	Theoretical + Practical	Quiz + Attendance
3	7	The student understands the topic	Dental Impression Trays	Theoretical + Practical	Quiz + Attendance
4	7	The student understands the topic	The burner uses in Prosthodontic Dentistry	Theoretical + Practical	Quiz + Attendance
5	7	The student understands the topic	Dental Pliers	Theoretical + Practical	Quiz + Attendance
6	7	The student understands the topic	Articulators, Face Bow and Die – lock tray	Theoretical + Practical	Quiz + Attendance
7	7	The student understands the topic	Dental Surveyors	Theoretical + Practical	Quiz + Attendance
8	7	The student understands the topic	Dental Packing & Duplication tools, and Dental Press	Theoretical + Practical	Quiz + Attendance

9	7	The student understands the topic	Dental Trimmer and Vibrator	Theoretical + Practical	Quiz + Attendance
10	7	The student understands the topic	Wax extraction unit	Theoretical + Practical	Quiz + Attendance
11	7	The student understands the topic	Polymerization devices (Water Bath devices, hydraulic flask and microwave oven)	Theoretical + Practical	Quiz + Attendance
12	7	The student understands the topic	Curing Light device and Injector flexible machine	Theoretical + Practical	Quiz + Attendance
13	7	The student understands the topic	Dental Brush, Burs and Disc	Theoretical + Practical	Quiz + Attendance
14	7	The student understands the topic	Laboratory Engines and Headpiece	Theoretical + Practical	Quiz + Attendance
15	7	The student understands the topic	Dental lathe polishing machine	Theoretical + Practical	Quiz + Attendance
		Second Semeste	er / Advanced Dental I	Equipment	

Week	Hours	Required Learning Outcomes	Unit/Topic Name	Learning Method	Assessment Method
1	7	The student identifies	Agar-ager melting machine and Flask cooling unit	Theoretical + Practical	Quiz + Attendance
2	7	The student understands the topic	Burn-out Furnace and casting ring	Theoretical + Practical	Quiz + Attendance
3	7	The student understands the topic	Conventional Centrifuge casting machine.	Theoretical + Practical	Quiz + Attendance
4	7	The student understands the topic	Electric and Induction Centrifuge casting machine.	Theoretical + Practical	Quiz + Attendance
5	7	The student understands the topic	Ultrasonic cleaning machine, and Mechanical mixer (vacuum)	Theoretical + Practical	Quiz + Attendance
6	7	The student understands the topic	Sand blast machine	Theoretical + Practical	Quiz + Attendance
7	7	The student understands the topic	Dental Ceramic Furnace	Theoretical + Practical	Quiz + Attendance

8	7	The student understands the topic	Soldering and welding	Theoretical + Practical	Quiz + Attendance
9	7	The student understands the topic	Dental Biostar	Theoretical + Practical	Quiz + Attendance
10	7	The student understands the topic	Dental-Arch Trimmer	Theoretical + Practical	Quiz + Attendance
11	7	The student understands the topic	Dental Pindex machine	Theoretical + Practical	Quiz + Attendance
12	7	The student understands the topic	Electronic spatula for wax modelling	Theoretical + Practical	Quiz + Attendance
13	7	The student understands the topic	Induction wax modelling and Dipping wax unit	Theoretical + Practical	Quiz + Attendance
14	7	The student understands the topic	General measurement instruments and Hopper duplicator	Theoretical + Practical	Quiz + Attendance
15	7	The student understands the topic	CAD-CAM production methods	Theoretical + Practical	Quiz + Attendance

Course Assessment:

The total grade for each semester is 100 points, distributed as follows:

- 30. 40 points for annual effort based on student assignments (daily, oral, monthly, and written exams, and reports)
- 31. 25 points for final practical exam
- 32. 35 points for final theoretical exam

Learning and Teaching Resources:

Required Textbooks:

33. Dental Devices and Laboratories" by Dr. Faez Fouad Dawood (1985)

Supporting Books and References (Scientific Journals, Reports):

- 34. Journal of Dentistry / University of Baghdad
- 35. Journal of Dentistry / Al-Mustansiriya University

36. Website of the College of Health and Medical Technologies, Middle Technical University

Electronic References, Websites:

Course Title: English Language / First Year

Course Code:

Semester: First (15 weeks)

Academic Year: 2024–2025

Date of Syllabus Preparation: 11/9/2025

Attendance Type: Mandatory

Total Study Hours / Units: 30 hours / 2 units

Course Coordinator:

Name: Assistant Lecturer Mustafa Yahya

Email: Mustafa.yahya@au.edu.iq

**Course Objectives** 

- 37. General Objective:
- 38. To teach English to students of health and medical specialties.
- 39. Specific Objective:

40. To focus on the English language skills required by health and medical curricula.

Teaching and Learning Strategies

- 41. Use of the whiteboard and presentation slides
- 42. Engaging students in lectures
- 43. Answering students' questions
- 44. Interactive explanation and discussion of material
- 45. Asking questions to enhance participation

# Course Structure

Week	Hours	Learning Outcome	Topic / Unit	Teaching Method	Assessment Method
1	2	Student identifies	Medical Terminology: Language of medicine,	Theoretical	Quiz + Attendance
2	2	Student understands	spelling, pronunciation, reading, vocabulary,	Theoretical	Quiz + Attendance
3	2	Student understands	grammar, oral and writing skills, pronunciation exercises, reviews, self- assessment	Theoretical	Quiz + Attendance
4	2	Student understands	Suffixes: Terms, reading, vocabulary, grammar, case	Theoretical	Quiz + Attendance
5	2	Student understands	reports, oral and writing skills, pronunciation, review,	Theoretical	Quiz + Attendance
6	2	Student understands	self-assessment	Theoretical	Quiz + Attendance
7	2	Student understands	Prefixes: Medical terms, reading, vocabulary,	Theoretical	Quiz + Attendance
8	2	Student understands	grammar, oral and writing skills, pronunciation, review,	Theoretical	Quiz + Attendance
9	2	Student understands	self-assessment	Theoretical	Quiz + Attendance
10	2	Student understands	Body Structure: Systems, planes, directional terms,	Theoretical	Quiz + Attendance

		C 4						
11	2	Student	positions, cavities, reading,	Theoretical	Quiz +			
		understands	vocabulary, grammar, oral		Attendance			
		Student	and writing skills, review,		Quiz +			
12	2		self-assessment	Theoretical				
		understands			Attendance			
		Student	Body Systems: Reading,		Quiz +			
13	2	understands	vocabulary, grammar, oral	Theoretical	Attendance			
		Student	and writing skills,		Quiz +			
14	2		-	Theoretical				
		understands	pronunciation, review, self-		Attendance			
15	2	Student	assessment	Theoretical	Quiz +			
15		understands		Theoretical	Attendance			
Course	Evaluatio	n						
46.	Total Gra	de: 100 Marks						
	1. 30	) Marks: Year-r	ound performance based on task	s such as daily	preparation.			
			written monthly exams, and rep	•				
	-	) Marks: Final v	•					
	g Resourc							
47.	Prescribed	d Textbook:						
48.	Headway	Upper Interme	diate					
49.	Main Ref	erences:						
50.	Mind You	er Language						
51.	Recommended Supporting Books:							
52.	English Grammar in Use							
53.	Online References:							
54.	Writing Better English							

Course Title: Dental Anatomy

Course Code:

Semester I: Basic Dental Anatomy (15 weeks)

Semester II: Advanced Dental Anatomy (15 weeks)

Academic Year: 2024–2025

Date of Description Preparation: 11/09/2024

Attendance Mode: Mandatory

Total Study Hours / Units:

- 55. First Semester: 105 hours / 4 units
- 56. Second Semester: 105 hours / 4 units

Course Coordinator:

Dr. Hassan Abdul Rahim Karim

Email: hassandentist71@yahoo.com

**Course Objectives** 

- 57. General Objective:
- 58. Introduce students to the scientific terminology related to dental anatomy and provide them with anatomical knowledge of the teeth.
- 59. Specific Objective:
- 60. Through the scientific component, students learn to draw and carve teeth to benefit from this skill in their technical field.

## Teaching and Learning Strategies

- 61. Lectures
- 62. Use of visual aids in the classroom
- 63. Interactive lectures
- 64. Use of data show (projector)

### Course Structure

	First Semester / Basic Dental Anatomy									
Week	Hours	Intended	Topic	Learning	Assessment					
		Learning		Method						
		Outcome								
1	7	Student is	Introduction of dental	Theoretical +	Quiz +					
		introduced to	anatomy	Practical	Attendance					
2	7 Student		Anatomy of tooth	Theoretical +	Quiz +					
		understands	structure	Practical	Attendance					

3	7	Student	Numbering system of	Theoretical +	Quiz +
		understands	the teeth	Practical	Attendance
4	7	Student	Physiology of teeth	Theoretical +	Quiz +
		understands	(Function) and tooth	Practical	Attendance
			form		
5	7	Student	Fundamentals of tooth	Theoretical +	Quiz +
		understands	form	Practical	Attendance
6	7	Student	Proximal contact area:	Theoretical +	Quiz +
		understands	importance and	Practical	Attendance
			function		
7	7	Student	Physiology of human	Theoretical +	Quiz +
	_	understands	teeth	Practical	Attendance
8	7	Student	Anatomical landmarks	Theoretical +	Quiz +
		understands	(anterior teeth)	Practical	Attendance
9	7	Student	Anatomical landmarks	Theoretical +	Quiz +
1.0	_	understands	(posterior teeth)	Practical	Attendance
10	7	Student	Maxillary central	Theoretical +	Quiz +
11	7	understands	incisor	Practical	Attendance
11	7	Student	Maxillary lateral	Theoretical +	Quiz +
10	7	understands	incisor	Practical	Attendance
12	7	Student	Mandibular central	Theoretical + Practical	Quiz +
13	7	understands	incisor Man dibular lataral		Attendance
15	/	Student understands	Mandibular lateral incisor	Theoretical + Practical	Quiz + Attendance
14	7	Student	Maxillary canine	Theoretical +	Quiz +
14	/	understands	Maxinary Cannie	Practical +	Attendance
15	7	Student	Mandibular canine	Theoretical +	Quiz +
15	/	understands		Practical	Attendance
			mester / Advanced Dental		Attendance
Week	Hours	Intended	Topic	Learning	Assessment
WEEK	nouis	Learning	ropic	Method	Assessment
		Outcome		Wiethou	
1	7	Student is	Maxillary 1st premolar:	Theoretical +	Quiz +
1	,	introduced to	description and	Practical	Attendance
			anatomical landmarks	1 ruetteur	- Internative
2	7	Student	Maxillary 1st premolar:	Theoretical +	Quiz +
		understands	buccal, lingual, mesial,	Practical	Attendance
			distal, and occlusal		
			aspects		

3	7	Student understands	Maxillary 2nd premolar: description and	Theoretical + Practical	Quiz + Attendance
			comparison with 1st premolar		
4	7	Student understands	Mandibular 1st premolar: description and anatomical aspects	Theoretical + Practical	Quiz + Attendance
5	7	Student understands	Mandibular 2nd premolar: description and anatomical aspects	Theoretical + Practical	Quiz + Attendance
6	7	Student understands	Maxillary 1st molar: buccal, lingual, mesial, distal, occlusal aspects	Theoretical + Practical	Quiz + Attendance
7	7	Student understands	Maxillary 1st molar: description and landmarks	Theoretical + Practical	Quiz + Attendance
8	7	Student understands	Maxillary 2nd molar: comparison with 1st molar	Theoretical + Practical	Quiz + Attendance
9	7	Student understands	Maxillary 3rd molar: comparison with 1st and 2nd molars	Theoretical + Practical	Quiz + Attendance
10	7	Student understands	Mandibular 1st molar: description and landmarks	Theoretical + Practical	Quiz + Attendance
11	7	Student understands	Mandibular 1st molar: anatomical aspects	Theoretical + Practical	Quiz + Attendance
12	7	Student understands	Mandibular 2nd molar: comparison with 1st molar	Theoretical + Practical	Quiz + Attendance
13	7	Student understands	Mandibular 3rd molar: variations and comparison with 2nd molar	Theoretical + Practical	Quiz + Attendance
14	7	Student understands	Occlusion: definition, types, and features	Theoretical + Practical	Quiz + Attendance
15	7	Student understands	Review of posterior teeth	Theoretical + Practical	Quiz + Attendance

Course Evaluation

Total score: 100 marks per semester, distributed as follows:

- 65. 40 marks for continuous assessment (daily preparation, quizzes, oral and written exams, reports, etc.)
- 66. 25 marks for final practical exam
- 67. 35 marks for final theoretical exam

## Learning Resources

- 68. Prescribed Textbooks:
- 69. Main References:
- 1. Atlas of Dental Anatomy

# 70. Recommended Supporting Materials:

- 1. Dental Anatomy, Physiology, and Occlusion
- 2. Dental Laboratory Technology: Dental Anatomy by John B. Sowter
- 3. Dental Morphology by G.C. Downes

# 71. Electronic References / Websites:

- 1. Ashur University website
- 2. Website of the College of Health and Medical Technologies Baghdad

Course Name: Principles of Computer 1 / First Stage

Course Code:

Semester: First Semester: (15 weeks)

Academic Year: 2024-2025

Date of Description Preparation: 10/11/2024

Available Attendance Modes: Mandatory attendance

Total Study Hours/Total Units: 45 hours / 2 units

Course Instructor:

Name: Shwan Maki Mohammed

Email:

Course Objectives:

- 72. General Objective: To provide students with skills in using basic office applications, creating office files and documents, utilizing the operating system, and understanding the fundamentals of working in a digital environment.
- 73. Specific Objective: To equip students with knowledge in managing and using various computer applications.

Learning and Teaching Strategies:

- 74. Lectures
- 75. Use of visual aids in the classroom
- 76. Interactive lectures
- 77. Use of data show

Course Structure:

_	Course Structure:							
	Week	Hours	Required Learning Outcomes	Unit Name or Topic	Learning Method	Assessment Method		
	1	2	The student learns about	Writing extensive texts and training the student to perform these activities	Theoretical	Quiz + Attendance		
	2	2	The student understands the topic	Training the student to create texts with different formats and print them	Theoretical	Quiz + Attendance		

3	2	The student understands the topic	Practical exercises on texts within the document	Theoretical	Quiz + Attendance
4	2	The student understands the topic	Giving names of companies or students and training the student to search for and replace a specific name	Theoretical	Quiz + Attendance
5	2	The student understands the topic	Training the student on page layout, display tab, and writing texts	Theoretical	Quiz + Attendance
6	2	The student understands the topic	Giving practical examples of inserting objects and training on writing texts more professionally	Theoretical	Quiz + Attendance
7	2	The student understands the topic	Giving practical examples of the insert tab page group	Theoretical	Quiz + Attendance
8	2	The student understands the topic	Giving practical examples of the Tables group	Theoretical	Quiz + Attendance
9	2	The student understands the topic	Giving other practical examples of the Tables group	Theoretical	Quiz + Attendance

10	2	The student understands the topic	Training the student on illustrative graphics	Theoretical	Quiz + Attendance
11	2	The student understands the topic	Inserting a specific image and assigning the student to perform those activities	Theoretical	Quiz + Attendance
12	2	The student understands the topic	Training the student on writing texts that include currency symbols, special characters, scientific symbols, and more	Theoretical	Quiz + Attendance
13	2	The student understands the topic	Training the student on writing equations that include addition, multiplication, exponentiation, and matrices in different forms	Theoretical	Quiz + Attendance
14	2	The student understands the topic	Training the student on creating different tables with data entry	Theoretical	Quiz + Attendance
15	2	The student understands the topic	Training on opening a new file and saving it on the desktop	Theoretical	Quiz + Attendance

Course Assessment:

The total grade of 100 is distributed as follows: 40 points for annual effort (25 theoretical + 15 practical) based on student assignments such as daily preparation, daily, oral, monthly, and written exams, and reports. Additionally, there are 25 points for the practical final exam and 35 points for the theoretical final exam.

Learning and Teaching Resources:

Required Textbooks (Curricular, if any):

Main References (Sources):

Supporting Books and References (Scientific Journals, Reports):

Electronic References, Websites:

Course Title: Human Rights and Democracy / First Year

Course Code:

Semester: First (15 Weeks)

Academic Year: 2024–2025

Date of Description Preparation: September 10, 2024

Attendance Format: Mandatory

Total Study Hours / Units: 30 hours / 2 units

Course Instructor:

Assistant Lecturer Sara Ayad Ismail Hassan

Email: <u>Sara.ayad@au.edu.iq</u>

Course Objectives

- 78. General Objective:
- 79. The student will learn about the historical development of human rights, different forms of democracy, and various types of freedoms during the first semester.
- 80. Specific Objective:
- 81. The student will understand the historical development of human rights, the role of international organizations in protecting and respecting these rights, types of democracies, their impact on third-world countries, and the future of freedom.
- 82. It also aims to equip students in the Department of Dental Technology with knowledge of human rights and the principles of democracy.

Teaching and Learning Strategies

- 83. Lectures
- 84. Use of visual aids in the classroom
- 85. Interactive lectures
- 86. Use of data show/projector

## Course Structure

Week	Hours	Learning	Unit / Topic	Learning	Assessment		
week	Hours	Outcomes		Method	Method		
1	2	Student understands	Concept of Human Rights: definitions of human rights, rights, and humans	Theoretical	Quiz + Attendance		
2	2	Student understands	Main characteristics of human rights	Theoretical	Quiz + Attendance		
3	2	Student understands	Types of human rights: by importance, by individuals, by subject	Theoretical	Quiz + Attendance		

4	2	Student understands	<ul> <li>Categories of human rights:</li> <li>87. First generation: civil and political rights.</li> <li>88. Second generation: economic, social, and cultural rights</li> <li>89. Third generation: environmental, cultural, and developmental rights</li> </ul>	Theoretical	Quiz + Attendance
5	2	Student understands	Human rights in ancient civilizations: Mesopotamian, Indian, Chinese, Ancient Egyptian, Greek, and Roman civilizations	Theoretical	Quiz + Attendance
6	2	Student understands	Human rights in the Middle Ages	Theoretical	Quiz + Attendance
7	2	Student understands	Human rights in Islam and other divine religions	Theoretical	Quiz + Attendance
8	2	Student understands	<ul> <li>Human rights in Renaissance societies:</li> <li>1.Magna Carta (1215), Petition of Right (1628), Habeas Corpus Act (1679), Bill of Rights,</li> <li>2.Thinkers' contributions (Hobbes, Locke, Rousseau, Voltaire, Montesquieu, etc.),</li> <li>3.Declaration of Independence, French Revolution and Declaration of the Rights of Man</li> </ul>	Theoretical	Quiz + Attendance
9	2	Student understands	Human rights in modern times: 1.October Socialist Revolution in Russia (1917), League of Nations Charter, 2.Universal Declaration of Human Rights (1948)	Theoretical	Quiz + Attendance
10	2	Student understands	Modern developments:	Theoretical	Quiz + Attendance

			1.UN Charter (1954),		
			International Human Rights		
			Covenants, Regional Human		
			Rights Charters		
			Non-governmental		
			organizations and human		
		Student	rights: International Red Cross,		Quiz +
11	2	understands	Amnesty International, Human	Theoretical	Attendance
		understands	Rights Watch, National Human		1 Itteriduitee
			Rights Organizations		
			National and international		
			human rights protections:		
			2. Constitutions and laws,		
			Press freedom and public		
		~ .	opinion,		<u>.</u>
12	2	Student	3. Civil society	Theoretical	Quiz +
		understands	organizations, Regional		Attendance
			organizations (Arab League,		
			EU, OAS),		
			4. UN and its specialized		
			agencies		
			Water and environmental		
			awareness in Iraq:		
13	2	Student	• General concept of awareness,	Theoretical	Quiz +
15	Z	understands	Methods of awareness,	Theoretical	Attendance
			• Dimensions and uses of water		
			awareness		
		Student	Challenges to water awareness		Quiz +
14	2	understands	in Iraq and proposed solutions	Theoretical	Attendance
		anderstands	for water scarcity		- Internatione
			Concept of equality:		
		Student	• Historical development,		Quiz +
15	2	understands	Modern ideas of equality,	Theoretical	Attendance
		understands	• Gender equality, Equality		
			regardless of beliefs		
Jourse l	Evaluatio	on			

5. Total Score: 100 Marks

- 1. 30 Marks for ongoing assessment (daily preparation, quizzes, oral and written midterms, and reports)
  - 2. 70 Marks for the final written exam

Learning Resources

- 6. Prescribed Textbooks:
- 7. Main References:
- 8. Recommended Supporting Materials:
- 9. Electronic Resources / Websites:

Course Name

Occupational Safety / First Stage

Course Code

First Semester: (15 Weeks)

Academic year

2024-2025

Date of preparation of this description

10/11/2024

Attendance Forms / Exemption

Mandatory Attendance

Total study hours (total) / number of units (total)

30 Hours / 2 Units

Course instructor

Name: Dr. Noor Hassan Abdullah

Email: noorha443@gmail.com

Course Objectives:

General Objective: To define the student to the occupational hazards and their impact on general health.

Specific Objective: To enable the student to identify occupational hazards in laboratories and workshops.

Teaching and Learning Strategies

- 10. Lectures
- 11. Use of Teaching Aids
- 12. Discussions and Interactive Lectures
- 13. Use of Data Show

# Course Content

Week	Hours	Learning Outcomes	Unit/Module Name	Teaching Method	Assessment Method
1	2	The student understands	<ul><li>14. Introduction &amp; terms used in occupational safety</li><li>15. The staff of the occupational health center</li></ul>	Theoretical	Quiz+ Attendance
2	2	The student understands	16. Work hazards in an industrial environment in general work	Theoretical	Quiz+ Attendance

			17. Physical hazards		
3	2	The student understands	<ul> <li>18. Noise, and protection from noise</li> <li>19. Source of noise in general work</li> </ul>	Theoretical	Quiz+ Attendance
4	2	The student understands	<ul><li>20. Prevention from the heat in general work</li><li>21. Chemical hazards in general work</li></ul>	Theoretical	Quiz+ Attendance
5	2	The student understands	<ol> <li>The most important route of entry of chemical</li> <li>Elimination of chemical substances from the body</li> <li>Type of toxicity</li> <li>Chronic toxicity</li> </ol>	Theoretical	Quiz+ Attendance
6	2	The student understands	<ul> <li>26. Occupational cancer</li> <li>27. Respiratory disease associated with occupational cancer</li> <li>28. Occupational Asthma / properties prevention / treatment</li> </ul>	Theoretical	Quiz+ Attendance
7	2	The student understands	<ul> <li>Introduction to Biosafety and Security</li> <li>29. Key components of Biorisk Management</li> <li>30. Components of safety in all laboratories</li> <li>31. Universal safety precautions</li> <li>Biosafety barriers in laboratories</li> <li>32. Personal protective equipment(PPE)</li> <li>Facility Design</li> </ul>	Theoretical	Quiz+ Attendance
8	2	The student understands	<ul> <li>Biosafety level</li> <li>33. Risk Assessment Strategy</li> <li>34. Hazard groups, biosafety</li> <li>levels, practices and equipment</li> <li>Standard practices required in</li> <li>biology laboratories</li> <li>Biological Agents</li> </ul>	Theoretical	Quiz+ Attendance

			<ul><li>35. Routs of infection</li><li>36. Basis for control</li><li>Measures</li></ul>		
			37. Hazard group classification system		
			A Biosafety cabinet (BSC)		
9	2	The student understands	<ul> <li>Biorisk and biohazards</li> <li>38. Control of substances hazardous to health</li> <li>39. Assessing risk for work with human blood and tissues hazards</li> <li>40. Control measures for work with human blood and tissue</li> <li>Containment level</li> </ul>	Theoretical	Quiz+ Attendance
10	2	The student understands	<ul> <li>Biorisk management system</li> <li>41. Assess the capability of the laboratory staff to control hazards</li> <li>42. Relation of risk groups to biosafety levels , practices of and equipment</li> <li>43. Mitigation Control Measures</li> <li>44. Sustainability of the bio- risk management system</li> <li>Strengthening biorisk management</li> </ul>	Theoretical	Quiz+ Attendance
11	2	The student understands	<ul> <li>Types of biological wastes</li> <li>45. Categories of biological wastes</li> <li>46. Decontamination of biological wastes</li> <li>Transportation of biological wastes</li> <li>47. International Transport Regulations</li> <li>The Basic Triple Packaging System</li> </ul>	Theoretical	Quiz+ Attendance

12	2	The student understands	<ul> <li>Accident response</li> <li>48. spill cleanup procedure</li> <li>49. Investigation of an accident inside the laboratory</li> <li>Overview of biological safety and security equipment</li> </ul>	Theoretical	Quiz+ Attendance		
13	2	The student understands	<ul> <li>Introduction to Biosecurity</li> <li>50. Risks Characterization in biosecurity</li> <li>51. Vulnerability assessment13</li> <li>Component o14f Laboratory</li> <li>Biose15curity</li> </ul>	Theoretical	Quiz+ Attendance		
14	2	The student understands	biosafety Practical part biosafety rules simulation 3D <u>https://www.labster.com/3d-</u> <u>biosafety-simulution</u>	Theoretical	Quiz+ Attendance		
15	2	The student understands	Biosafety training	Theoretical	Quiz+ Attendance		
	Course Evaluation: Grade distribution out of 100 (30 continuous assessments: daily preparation, weekly exams,						

midterm, final, and 70 theoretical).

Teaching and Learning Resources

Required Course Textbooks (Syllabus and References)

Main References: Phillips' Science of Dental Materials 2012,

Craig's Restorative Dental Materials 2012,

Anderson's Applied Dental Materials

Supplementary Books and References (Scientific Journals, Reports)

Electronic References, Internet Websites

Course Title: Arabic Language / First Year

Course Code:

Semester: Second (15 weeks)

Academic Year: 2024–2025

Date of Syllabus Preparation: 10/11/2024

Attendance Format: Mandatory Attendance

Total Study Hours / Units: 30 hours / 2 units

Course Coordinator:

Name: Assistant Lecturer Shwan Maki Mohammed

Email:

**Course Objectives** 

- 52. General Objective:
- 53. To educate students in the rules of Arabic grammar and Arabic literature.
- 54. Specific Objective:

55. To provide students with a comprehensive understanding of Arabic grammar and literary elements.

**Teaching and Learning Strategies** 

# 56. Lectures

- 57. Use of visual aids in the classroom
- 58. Interactive lectures
- 59. Use of data show presentations

Course Structure

Week	Hours	Learning Outcome	Topic / Unit	Learning Method	Assessment Method
1	2	Student identifies	Introduction to language errors – tied, long, and open "ta"	Theoretical	Quiz + Attendance
2	2	Student understands	Rules of writing extended and short alif – Solar and Lunar letters	Theoretical	Quiz + Attendance
3	2	Student understands	Letters "Đād" and "ẓāʾ"	Theoretical	Quiz + Attendance
4	2	Student understands	Writing of hamza	Theoretical	Quiz + Attendance
5	2	Student understands	Punctuation marks	Theoretical	Quiz + Attendance
6	2	Student understands	Noun and verb and the difference between them	Theoretical	Quiz + Attendance
7	2	Student understands	Verbal objects	Theoretical	Quiz + Attendance
8	2	Student understands	Numbers	Theoretical	Quiz + Attendance

9	2	Student understands	Applications of common linguistic errors	Theoretical	Quiz + Attendance
10	2	Student understands	Applications of common linguistic errors	Theoretical	Quiz + Attendance
11	2	Student understands	Noonation and meanings of prepositions	Theoretical	Quiz + Attendance
12	2	Student understands	Formal aspects of administrative correspondence	Theoretical	Quiz + Attendance
13	2	Student understands	Language of administrative correspondence	Theoretical	Quiz + Attendance
14	2	Student understands	Language of administrative correspondence	Theoretical	Quiz + Attendance
15	2	Student understands	Examples of administrative correspondences	Theoretical	Quiz + Attendance

Course Evaluation

60. Total Grade: 100 Marks

- 1. 30 Marks: Continuous assessment based on tasks such as daily preparation, quizzes, oral and written monthly exams, and reports.
- 2. 70 Marks: Final written exam.

Learning Resources

61. Prescribed Textbooks (if any):

62. Main References: "Clear Grammar in the Rules of the Arabic Language" by

Mustafa Amin

63. Recommended Supporting Books (Journals, Reports):

64. Electronic Resources / Websites:

course description:

Course Name: General Physics

Course Code:

Academic Year: 2024-2025, Second Semester

Date of Description Preparation: 2024/10/21

Available Attendance Modes: In-person

Total Study Hours/ Units: 90/4

Course Instructor:

Name: Hassan Khalid Issa

Email: Hassan.khalid@au.edu.iq

Course Objectives:

65. Introduce students to the general principles of physics.

66. Enable students to conduct analytical scientific physics experiments.

Learning and Teaching Strategies:

67. Lectures and discussions to reinforce ideas.

68. Experiments and laboratories, and report preparation.

Course Structure:

Week	Hours	Required Learning Outcomes	Unit Name or Topic	Learning Method	Assessment Method
1	2	The student understands the material	Review of general physics, concept and laws	Theoretical + Practical	Quiz + Attendance
2	2	The student understands the material	Atomic structure	Theoretical + Practical	Quiz + Attendance
3	2	The student understands the material	Ohm's law, series and parallel circuits	Theoretical + Practical	Quiz + Attendance
4	2	The student understands the material	Capacitor, series and parallel capacitors	Theoretical + Practical	Quiz + Attendance

5	2	The student understands the material	Electromotive force (e.m.f)	Theoretical + Practical	Quiz + Attendance
6	2	The student understands the material	The mechanical properties of solid materials (Rheological properties)	Theoretical + Practical	Quiz + Attendance
7	2	The student understands the material	The physical properties of solid materials (adhesion and cohesion)	Theoretical + Practical	Quiz + Attendance
8	2	The student understands the material	The physical properties of solid materials (thermal properties)	Theoretical + Practical	Quiz + Attendance
9	2	The student understands the material	The physical properties of solid materials (electrical properties)	Theoretical + Practical	Quiz + Attendance
10	2	The student understands the material	The physical properties of solid materials (surface physico-chemistry)	Theoretical + Practical	Quiz + Attendance
11	2	The student understands the material	The physical properties of solid materials (surface texture)	Theoretical + Practical	Quiz + Attendance

12	2	The student understands the material	The physical properties of solid materials (optical properties)	Theoretical + Practical	Quiz + Attendance
13	2	The student understands the material	The biological properties of solid materials (Biocompatibility)	Theoretical + Practical	Quiz + Attendance
14	2	The student understands the material	The biological properties of solid materials (Biofilm formation and bioadhesion)	Theoretical + Practical	Quiz + Attendance
15	2	The student understands the material	The chemical properties of solid materials	Theoretical + Practical	Quiz + Attendance

# Course Assessment:

Grades are distributed out of 100 based on student assignments such as daily preparation, daily and oral exams, monthly and written exams, and reports:

- 69. Attendance and Reports: 10 points
- 70. Short Quizzes: 5 points
- 71. Midterm (Theoretical): 25 points
- 72. Final Exam: 60 points (divided into 25 points practical and 35 points theoretical)

Learning and Teaching Resources:

Required Textbooks:

73. Medical Physics, John Cameron

74. Other non-curricular supporting books

Main References (Sources):

Supporting Books and References (Scientific Journals, Reports):

Electronic References, Websites: None

Course Name: Dental Materials / First Stage

Course Code:

Semester:

- 75. First Semester: Dental Materials (Basic) (15 weeks)
- 76. Second Semester: Dental Materials (Intermediate) (15 weeks)

Academic Year: 2024-2025

Date of Description Preparation: September 11, 2024

Attendance Type: Mandatory

Total Credit Hours/Units:

77. First Course: 105 hours / 4 units

78. Second Course: 105 hours / 4 units

79. Course Coordinator:

- 80. Name: Asst. Prof. Noor Hassan Abdullah
- 81. Email: noorha443@gmail.com

Course Objectives:

- 82. To familiarize students with the materials used in dental technology and how to handle them.
- 83. To enable dental technology students to study and use all common laboratory materials in the preparation and manufacture of dental and maxillofacial prostheses, in addition to studying their physical, chemical, and biological properties.

Learning and Teaching Strategies:

- 84. Lectures
- 85. Use of visual aids in the classroom
- 86. Interactive lectures
- 87. Use of data show

Course Structure:

First Semester / Basic Dental Materials					
Week	Hours	Required Learning Outcomes	Unit/Topic Name	Learning Method	Assessment Method
1	7	The student identifies	Basics of materials science	Theoretical + Practical	Quiz + Attendance

2	7	The student understands the topic	Requirements and evaluation of dental materials	Theoretical + Practical	Quiz + Attendance
3	7	The student understands the topic	The structure of the solid materials and interatomic bonds	Theoretical + Practical	Quiz + Attendance
4	7	The student understands the topic	The mechanical properties of the solid materials (Part I)	Theoretical + Practical	Quiz + Attendance
5	7	The student understands the topic	The mechanical properties of the solid materials (Part II)	Theoretical + Practical	Quiz + Attendance
6	7	The student understands the topic	The mechanical properties of the solid materials (Rheological properties)	Theoretical + Practical	Quiz + Attendance
7	7	The student understands the topic	The physical properties of the solid materials (adhesion and cohesion)	Theoretical + Practical	Quiz + Attendance
8	7	The student understands the topic	The physical properties of the solid materials (thermal properties)	Theoretical + Practical	Quiz + Attendance
9	7	The student understands the topic	The physical properties of the solid materials (electrical properties)	Theoretical + Practical	Quiz + Attendance
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10	7	The student understands the topic	The physical properties of the solid materials (surface physico- chemistry)	Theoretical + Practical	Quiz + Attendance
11	7	The student understands the topic	The physical properties of the solid materials (surface texture)	Theoretical + Practical	Quiz + Attendance
12	7	The student understands the topic	The physical properties of the solid materials (optical properties)	Theoretical + Practical	Quiz + Attendance
13	7	The student understands the topic	The biological properties of the solid materials (Biocompatibility)	Theoretical + Practical	Quiz + Attendance
14	7	The student understands the topic	The biological properties of the solid materials (Biofilm formation and bioadhesion)	Theoretical + Practical	Quiz + Attendance
15	7	The student understands the topic	The chemical properties of the solid materials	Theoretical + Practical	Quiz + Attendance

Second Semester / Intermediate Dental Materials

Week	Hours	Required Learning Outcomes	Unit/Topic Name	Learning Method	Assessment Method
1	7	The student identifies	Polymers in dentistry (Basic structure of polymer)	Theoretical + Practical	Quiz + Attendance
2	7	The student understands the topic	Polymers in dentistry (polymerization and crosslinking reactions)	Theoretical + Practical	Quiz + Attendance
3	7	The student understands the topic	Resins, artificial teeth materials	Theoretical + Practical	Quiz + Attendance
4	7	The student understands the topic	Acrylic resin material (denture base materials)	Theoretical + Practical	Quiz + Attendance
5	7	The student understands the topic	Classification and properties of dental acrylic resin materials	Theoretical + Practical	Quiz + Attendance
6	7	The student understands the topic	Denture liner materials	Theoretical + Practical	Quiz + Attendance
7	7	The student understands the topic	Wax (composition and properties)	Theoretical + Practical	Quiz + Attendance

7 7	The student understands the topic The student	Dental wax (types and uses)	Theoretical + Practical	Quiz +
7	The student		Tracticul	Attendance
	understands the topic	Gypsum products (chemistry and composition)	Theoretical + Practical	Quiz + Attendance
7	The student understands the topic	Gypsum products (types and uses)	Theoretical + Practical	Quiz + Attendance
7	The student understands the topic	Gypsum products (setting reaction and properties)	Theoretical + Practical	Quiz + Attendance
7	The student understands the topic	Dental abrasives (definition and concept)	Theoretical + Practical	Quiz + Attendance
7	The student understands the topic	Dental abrasives types	Theoretical + Practical	Quiz + Attendance
7	The student understands the topic	Dental abrasives (procedure and application)	Theoretical + Practical	Quiz + Attendance
	7 7 7	7understands the topic7The student understands the topic	7Inderstands the topicGypsum products (types and uses)7The student understands the topicGypsum products (setting reaction and properties)7The student understands the topicDental abrasives (definition and concept)7The student understands the topicDental abrasives (definition and concept)7The student understands the topicDental abrasives (definition and concept)7The student understands the topicDental abrasives (procedure and application)	7Indextands the topicGypsum products (types and uses)Theoretical + Practical7The student understands the topicGypsum products (setting reaction and properties)Theoretical + Practical7The student understands the topicDental abrasives (definition and concept)Theoretical + Practical7The student understands the topicDental abrasives (definition and concept)Theoretical + Practical7The student understands the topicDental abrasives (procedure and application)Theoretical + Practical

The total grade for each semester is 100 points, distributed as follows:

- 88. 40 points for annual effort based on student assignments (daily, oral, monthly, and written exams, and reports)
- 89. 25 points for final practical exam
- 90. 35 points for final theoretical exam

Learning and Teaching Resources:

Required Textbooks:

- 91. *Phillips' Science of Dental Materials 2012*
- 92. Craig's Restorative Dental Material (5th edition)
- 93. Anderson's Applied Dental Materials

Supporting Books and References (Scientific Journals, Reports):

- 94. Journal of Dentistry / University of Baghdad
- 95. Journal of Dentistry / Al-Mustansiriya University

96. Website of the College of Health and Medical Technologies, Middle Technical University

Electronic References, Websites:

Course Name: Oral Diseases / Third Level

Course Code:

First Semester: (15 weeks), 2024-2025

Date of Description Preparation: 20/9/2024

Available Attendance Modes: Mandatory attendance

Total Study Hours/Total Units: 45 / 2

Course Instructor: Mayadah Hameed Rasheed, Email: mayadah.hameed@au.edu.iq Course Objectives:

- **97.** General Objective: To familiarize students with oral and dental diseases and how to prepare and examine slides using a microscope.
- 98. Specific Objective: To enable students to identify and microscopically diagnose oral and dental diseases in the laboratory.

Learning and Teaching Strategies:

- **99.** Lectures and discussion lectures
- 100. Use of visual aids and short educational films
- 101. Interactive applications

Course Structure:

Week	Hours	Learning Outcomes	Unit/Topic Name	Learning Method	Assessment Method
First	3	Student identifies	Oral pathology	Theoretical + Practical	Written exams, Attendance
Second	3	Student understands the topic	Microscopy and slide preparation	Theoretical + Practical	Written exams, Attendance
Third	3	Student understands the topic	Biopsy, definition, types, technique	Theoretical + Practical	Written exams, Attendance
Fourth	3	Student understands the topic	Dental caries, definition, classification, clinical	Theoretical + Practical	Written exams, Attendance

			feature, radiological		
Fifth	3	Student understands the topic	feature	Theoretical + Practical	Written exams, Attendance
Sixth	3	Student understands the topic	Pulp disease, acute pulpitis	Theoretical + Practical	Written exams, Attendance
Seventh	3	Student understands the topic	Pulp disease, dental granuloma	Theoretical + Practical	Written exams, Attendance
Eighth	3	Student understands the topic	Periapical pathology & changes	Theoretical + Practical	Written exams, Attendance
Ninth	3	Student understands the topic	Cyst of the Jaw	Theoretical + Practical	Written exams, Attendance
Tenth	3	Student understands the topic	White lesions	Theoretical + Practical	Written exams, Attendance
Eleventh	3	Student understands the topic	Ulceration oral lesions	Theoretical + Practical	Written exams, Attendance
Twelfth	3	Student understands the topic	Developmental disturbance of oral mucosa	Theoretical + Practical	Written exams, Attendance
Thirteenth	3	Student understands the topic	Developmental disturbance of the tongue	Theoretical + Practical	Written exams, Attendance

Fourt	teenth	3	Student understands the topic	Developmental disturbance of teeth	Theoretical + Practical	Written exams, Attendance
Fiftee	enth	3	Student understands the topic	Bone diseases	Theoretical + Practical	Written exams, Attendance

Course Assessment:

The grade distribution is out of 100 for each semester:

**102.** 40 marks for annual effort (based on assigned tasks such as daily preparation, daily, oral, monthly, and written exams, and reports)

**103.** 25 marks for practical final exam

104. 35 marks for theoretical final exam

Learning and Teaching Resources:

105. Required Textbooks: Burkett oral Medicine 2020

106. Main References: Not specified

107. Supporting Books and References (Scientific journals, reports): Not specified

108. Electronic References, Internet Sites: Not specified

Course Name: Oral Bacteria / Third Level

Course Code:

Second Semester: (15 weeks), 2024-2025

Date of Description Preparation: 20/9/2024

Available Attendance Modes: Mandatory attendance

Total Study Hours/Total Units: 75 / 3

Course Instructor:

Noor Hassan Abdulla,

Email: noorha443@gmail.com

Course Objectives:

- 109. General Objective: To familiarize students with the nature and components of bacteria causing oral and dental diseases, and how to prepare and examine slides using a microscope.
- 110. Specific Objective: To enable students to identify and microscopically diagnose the nature and components of bacteria causing oral and dental diseases in the laboratory.

Learning and Teaching Strategies:

**111.** Lectures and discussion lectures

**112.** Use of visual aids and short educational films

**113.** Interactive applications

Course Structure:

Week	Hours	Learning Outcomes	Unit/Topic Name	Learning Method	Assessment Method
First	5	Student identifies	Oral bacteriology	Theoretical + Practical	Written exams, Attendance
Second	5	Student understands the topic	The cellular structure of bacteria	Theoretical + Practical	Written exams, Attendance
Third	5	Student understands the topic	Dent Bacterial classification	Theoretical + Practical	Written exams, Attendance
Fourth	5	Student understands the topic	Bacterial growth phases and curve	Theoretical + Practical	Written exams, Attendance

Fifth	5	Student understands the topic	Grams stain steps and procedures	Theoretical + Practical	Written exams, Attendance
Sixth	5	Student understands the topic	Basic requirements of Bacteria	Theoretical + Practical	Written exams, Attendance
Seventh	5	Student understands the topic	Oral microbiology and oral environments	Theoretical + Practical	Written exams, Attendance
Eighth	5	Student understands the topic	Dental plaque, definition, clinical feature, developments	Theoretical + Practical	Written exams, Attendance
Ninth	5	Student understands the topic	Oral streptococci, types, morphology, characteristics, selective	Theoretical + Practical	Written exams, Attendance
Tenth	5	Student understands the topic	media	Theoretical + Practical	Written exams, Attendance
Eleventh	5	Student understands the topic	Mutans streptococci, types, morphology, characteristics, selective	Theoretical + Practical	Written exams, Attendance

Twelfth	5	Student understands the topic	media	Theoretical + Practical	Written exams, Attendance
Thirteenth	5	Student understands the topic	The role of Bacteria in dental caries (cariogenic bacteria)	Theoretical + Practical	Written exams, Attendance
Fourteenth	5	Student understands the topic	The role of streptococcus in the development of dental caries	Theoretical + Practical	Written exams, Attendance
Fifteenth	5	Student understands the topic	The role of bacteria in periodontal disease	Theoretical + Practical	Written exams, Attendance

Course Assessment:

The grade distribution is out of 100 for each semester: 40 marks for annual effort (based on assigned tasks such as daily preparation, daily, oral, monthly, and written exams, and reports) + 25 marks for practical final exam + 35 marks for theoretical final exam.

Learning and Teaching Resources:

**114.** Required Textbooks: Book of Cawson's Essentials of Oral Pathology and Oral Medicine. Seventh Edition. By R.A. Cawson & E.W. Odell.

**115.** Main References: Not specified.

**116.** Supporting Books and References (Scientific journals, reports): Not specified.

**117.** Electronic References, Internet Sites: Not specified.

**Course Description** 

Course Name: Removable Partial Denture (Intermediate) / Third Level

Course Code:

First Semester: (15 weeks), 2024-2025

Date of Description Preparation: 20/9/2024

Available Attendance Modes: Mandatory attendance

Total Study Hours (Total)/Total Units (Total): 90/4

Course Instructor:

Name: M.M. Noor Ahmed Jassim

Email: nooralatool@yahoo.com

Course Objectives:

General Objective: To familiarize the student with the basic steps involved in the fabrication of acrylic partial dentures.

Specific Objective: To enable dental technology students to understand the basic steps involved in the fabrication of acrylic partial dentures.

Learning and Teaching Strategies:

- 118. Lectures and discussion lectures
- 119. Use of visual aids and short educational films
- 120. Interactive applications

Course Structure:

Week	Hours	Learning Outcomes	Unit/Topic Name	Learning Method	Assessment Method
First	6	Student identifies	The ideal component of the chrome-cobalt removable partial denture	Theoretical + Practical	Written exams, Attendance
Second	6	Student understands the topic	Maxillary major connector	Theoretical + Practical	Written exams, Attendance
Third	6	Student understands the topic	Mandibular major connector	Theoretical + Practical	Written exams, Attendance
Fourth	6	Student understands the topic	Minor retainer	Theoretical + Practical	Written exams, Attendance
Fifth	6	Student understands the topic	Direct retainer	Theoretical + Practical	Written exams, Attendance



Sixth	6	Student understands the topic	Indirect retainer	Theoretical + Practical	Written exams, Attendance
Seventh	6	Student understands the topic	Rest and rest seat	Theoretical + Practical	Written exams, Attendance
Eighth	6	Student understands the topic	Denture base	Theoretical + Practical	Written exams, Attendance
Ninth	6	Student understands the topic	Support for the distal extension denture base	Theoretical + Practical	Written exams, Attendance
Tenth	6	Student understands the topic	Establishment of occlusal relationship for R.P.D.	Theoretical + Practical	Written exams, Attendance
Eleventh	6	Student understands the topic	Duplicating of the master cast (Refractory cast)	Theoretical + Practical	Written exams, Attendance
Twelfth	6	Student understands the topic	Wax pattern	Theoretical + Practical	Written exams, Attendance
Thirteenth	6	Student understands the topic	Spruing and investing	Theoretical + Practical	Written exams, Attendance
Fourteenth	6	Student understands the topic	Burnout and Casting	Theoretical + Practical	Written exams, Attendance
Fifteenth	6	Student understands the topic	Finishing and polishing	Theoretical + Practical	Written exams, Attendance

## Course Assessment:

The grade distribution is out of 100 for each semester: 40 marks for annual effort (25 theoretical + 15 practical) based on assigned tasks such as daily preparation, daily, oral, monthly, and written exams, and reports + 25 marks for practical final exam + 35 marks for theoretical final exam.

Learning and Teaching Resources:

121.	Required	Textbooks:

122. Main References:

- 1. Removable Partial Prosthodontics by McCRACKEN
- 2. Essential of removable partial denture by K. Bhasker
- 123. Supporting Books and References (Scientific journals, reports):
  - 84

1.	Journal of Dentistry / University of Baghdad
2.	Journal of Dentistry / Al-Mustansiriya University
124.	Electronic References, Internet Sites:
1.	Ashur University website
2.	College of Health and Medical Technologies - Baghdad website

Course Name: Basic Maxillofacial Prosthetics / Third Level

Course Code:

Second Semester: (15 weeks), 2024-2025

Date of Description Preparation: 20/9/2024

Available Attendance Modes: Mandatory attendance

Total Study Hours/Total Units: 105 / 4

Course Instructor:

Noor Ahmed Jassim,

Email: nooralatool@yahoo.com

Course Objectives:

- 125. To familiarize the student with the general concept of maxillofacial prosthetics.
- 126. To teach the student about the types of prosthetic and therapeutic devices specific to maxillofacial prosthetics.
- 127. To teach the student how to evaluate cases of congenital and acquired deformities and participate in the treatment plan for maxillofacial prosthetics.
- 128. To teach the student how to overcome errors and find solutions for them in the laboratory during the manufacturing of prosthetic and therapeutic devices specific to maxillofacial prosthetics.
- 129. To enable the student to use artificial materials specific to maxillofacial prosthetics.

Learning and Teaching Strategies:

- 130. Lectures and discussion lectures
- 131. Use of visual aids and short educational films
- 132. Interactive applications

Course Structure:

Course Surde	ture.				
Week	Hours	Learning	Unit/Topic Name	Learning	Assessment
		Outcomes		Method	Method
First	7	Student	Maxillofacial	Theoretical	Written
		identifies	prosthesis work	+ Practical	exams,
					Attendance
Second	7	Student	Facial skin, wrinkles,	Theoretical	Written
		understands	and structures or	+ Practical	exams,
		the topic	landmarks		Attendance
Third	7	Student	Prosthetic treatment	Theoretical	Written
		understands	of maxillofacial	+ Practical	exams,
		the topic	defects		Attendance
Fourth	7	Student	Materials used for	Theoretical	Written
		understands	maxillofacial	+ Practical	exams,
		the topic	restoration		Attendance
			construction		

Fifth	7	Student	Cleft lip and palate	Theoretical	Written
		understands	(anatomy,	+ Practical	exams,
		the topic	impression and cast construction)		Attendance
Sixth	7	Student	Cleft lip and palate	Theoretical	Written
		understands	(feeding plate	+ Practical	exams,
		the topic	construction)		Attendance
Seventh	7	Student	Maxillary cleft	Theoretical	Written
		understands	(anatomy of the	+ Practical	exams,
		the topic	palate)		Attendance
Eighth	7	Student	Obturator (Anatomy	Theoretical	Written
		understands	Impression and cast	+ Practical	exams,
		the topic	construction)		Attendance
Ninth	7	Student	Obturator	Theoretical	Written
		understands	construction	+ Practical	exams,
		the topic			Attendance
Tenth	7	Student	Ocular prosthesis	Theoretical	Written
		understands		+ Practical	exams,
		the topic			Attendance
Eleventh	7	Student	Orbital prosthesis	Theoretical	Written
		understands		+ Practical	exams,
		the topic			Attendance
Twelfth	7	Student	Auricular prosthesis	Theoretical	Written
		understands		+ Practical	exams,
		the topic			Attendance
Thirteenth	7	Student	Nasal prosthesis	Theoretical	Written
		understands		+ Practical	exams,
		the topic			Attendance
Fourteenth	7	Student	Nasal and meatus	Theoretical	Written
		understands	opening devices	+ Practical	exams,
		the topic			Attendance
Fifteenth	7	Student	Retention for	Theoretical	Written
		understands	maxillofacial	+ Practical	exams,
		the topic	prosthesis		Attendance

Course Assessment:

The grade distribution is out of 100 for each semester: 40 marks for annual effort (25 theoretical + 15 practical) based on assigned tasks such as daily preparation, daily, oral, monthly, and written exams, and reports + 25 marks for practical final exam + 35 marks for theoretical final exam.

Learning and Teaching Resources:

Required Textbooks:

- 1. Scully, C. (2012). Oral and maxillofacial medicine: the basis of diagnosis and treatment. Elsevier Health Sciences.
- 2. Textbook of prosthodontics.

Main References: Not specified.

Supporting Books and References (Scientific journals, reports):

- **133.** Al-Teqni Journal,
- 134. Baghdad University Dental Journal,
- **135.** Al-Mustansiriya Dental Journal.

Electronic References, Internet Sites:

Ashur University website, College of Health and Medical Technologies - Baghdad website.

0					
	se Name: Orthod	ontics / Third L	evel		
Semes			1		
	Semester: Basic O		/		
	d Semester: Intern	nediate Orthodor	ntics / 15 weeks		
	e Code:	2.5			
	ster/Year: 2024-20		<u></u>		
	of Description Pre				
	able Attendance N	•	y attendance		
	Study Hours/Tota	1 Units: 160 / 7			
Course	e Instructor:				
Name	: Abeer Adnan				
	: abeeradnan321@	Gmail com			
	e Objectives:	e Olliuli,colli			
136.	e e e e e e e e e e e e e e e e e e e	s the general con	cept of orthodontics.		
130.		U	ponents of acrylic orth	odontic annlia	ncoc
137.			k in the orthodontic (a		
150.	laboratory.		k in the orthodolitie (a	(crync) manura	acturning
139.	•	s how to overcor	ne errors and find solu	utions for them	in the
157.			ing of orthodontic app		
Loom	•	•		Jilanees.	
	ing and Teaching	0		- f	1'
140.			acturing various types	of orthodontic	c appliances and
1 4 1		e laboratory equ	1		
141.	•	•	fy the materials used i	in orthodontics	•
142.	0	he types of jaw re	-		
143.		• 1	e used in orthodontic		1.
144.	Ũ	<b>1 1</b>	carving wax, converting	ng appliances t	o acrylic,
trimming, and polishing.					
Course Structure:					
		First Cours	se / Basic Orthodonti	ics:	
Weel	k Hours	Required	Unit/Topic Name	Learning	Assessment
		Learning		Method	Method
		Outcomes			

		Learning		Method	Method
		Outcomes			
1	2 hours	Student	Six keys to normal	Theoretical	Written
	theoretical, 5	understands	occlusion	+ Practical	exams,
	hours	the material			Attendance,
	practical	and applies it			Practical
					application

2	2 hours theoretical, 5 hours practical	Student understands the material and applies it	Adams clasp construction	Theoretical + Practical	Written exams, Attendance, Practical application
3	2 hours theoretical, 5 hours practical	Student understands the material and applies it	Hawley labial arch, Robert retractor, and Fitted labial arch	Theoretical + Practical	Written exams, Attendance, Practical application
4	2 hours theoretical, 5 hours practical	Student understands the material and applies it	Buccal canine retractor and modification	Theoretical + Practical	Written exams, Attendance, Practical application
5	2 hours theoretical, 5 hours practical	Student understands the material and applies it	Finger spring and Modified finger spring	Theoretical + Practical	Written exams, Attendance, Practical application
6	2 hours theoretical, 5 hours practical	Student understands the material and applies it	Z-Spring and Recurved Z-spring	Theoretical + Practical	Written exams, Attendance, Practical application
7	2 hours theoretical, 5 hours practical	Student understands the material and applies it	Myofunctional appliance construction	Theoretical + Practical	Written exams, Attendance, Practical application
8	2 hours theoretical, 5 hours practical	Student understands the material and applies it	Anchorage and fixed orthodontic appliance	Theoretical + Practical	Written exams, Attendance, Practical application
9	2 hours theoretical, 5 hours practical	Student understands the material and applies it	Introduction and malocclusion	Theoretical + Practical	Written exams, Attendance,

					Practical
					application
10	2 hours	Student	Orthodontic wires	Theoretical	Written
	theoretical, 5	understands	properties and	+ Practical	exams,
	hours	the material	removable		Attendance,
	practical	and applies it	orthodontic		Practical
	-		appliance		application
11	2 hours	Student	Soldering &	Theoretical	Written
	theoretical, 5	understands	welding	+ Practical	exams,
	hours	the material			Attendance,
	practical	and applies it			Practical
					application
12	2 hours	Student	Open bite, Deep	Theoretical	Written
	theoretical, 5	understands	bite, and Space	+ Practical	exams,
	hours	the material	maintainers in		Attendance,
	practical	and applies it	orthodontics		Practical
					application
13	2 hours	Student	Crossbite in	Theoretical	Written
	theoretical, 5	understands	orthodontics	+ Practical	exams,
	hours	the material			Attendance,
	practical	and applies it			Practical
					application
14	2 hours	Student	Bad habits and	Theoretical	Written
	theoretical, 5	understands	Habit breaker	+ Practical	exams,
	hours	the material			Attendance,
	practical	and applies it			Practical
1.7	0.1	Q 1 1		<b>T</b> 1	application
15	2 hours	Student	Bite plane and	Theoretical	Written
	theoretical, 5	understands	Retainers	+ Practical	exams,
	hours	the material			Attendance,
	practical	and applies it			Practical
		Second Course /	Intermediate Ortho	donties	application
Week	Hours	Required	Unit/Topic Name	Learning	Assessment
WEEK	TIOUIS	Learning	onto ropic ivanie	Method	Method
		Outcomes		Wiethou	Wiethou
1	2 hours	Student	Six keys to normal	Theoretical	Written
1	theoretical, 5	understands	occlusion	+ Practical	exams,
	incoretical, J	understands	occlusion	Tactical	Attendance,
					multice,

	hours	the material			Practical
	practical	and applies it			application
2	2 hours	Student	Adams clasp	Theoretical	Written
	theoretical, 5	understands	construction	+ Practical	exams,
	hours	the material			Attendance,
	practical	and applies it			Practical
	-				application
3	2 hours	Student	Hawley labial	Theoretical	Written
	theoretical, 5	understands	arch, Robert	+ Practical	exams,
	hours	the material	retractor, and		Attendance,
	practical	and applies it	Fitted labial arch		Practical
	-				application
4	2 hours	Student	Buccal canine	Theoretical	Written
	theoretical, 5	understands	retractor and	+ Practical	exams,
	hours	the material	modification		Attendance,
	practical	and applies it			Practical
	_				application
5	2 hours	Student	Finger spring and	Theoretical	Written
	theoretical, 5	understands	Modified finger	+ Practical	exams,
	hours	the material	spring		Attendance,
	practical	and applies it			Practical
					application
6	2 hours	Student	Z-Spring and	Theoretical	Written
	theoretical, 5	understands	Recurved Z-spring	+ Practical	exams,
	hours	the material			Attendance,
	practical	and applies it			Practical
					application
7	2 hours	Student	Myofunctional	Theoretical	Written
	theoretical, 5	understands	appliance	+ Practical	exams,
	hours	the material	construction		Attendance,
	practical	and applies it			Practical
					application
8	2 hours	Student	Anchorage and	Theoretical	Written
	theoretical, 5	understands	fixed orthodontic	+ Practical	exams,
	hours	the material	appliance		Attendance,
	practical	and applies it			Practical
					application
9	2 hours	Student	Introduction and	Theoretical	Written
	theoretical, 5	understands	malocclusion	+ Practical	exams,

	hours	the material			Attendance,
	practical	and applies it			Practical
	provenu				application
10	2 hours	Student	Orthodontic wires	Theoretical	Written
	theoretical, 5	understands	properties and	+ Practical	exams,
	hours	the material	removable		Attendance,
	practical	and applies it	orthodontic		Practical
	_		appliance		application
11	2 hours	Student	Soldering &	Theoretical	Written
	theoretical, 5	understands	welding	+ Practical	exams,
	hours	the material			Attendance,
	practical	and applies it			Practical
					application
12	2 hours	Student	Open bite, Deep	Theoretical	Written
	theoretical, 5	understands	bite, and Space	+ Practical	exams,
	hours	the material	maintainers in		Attendance,
	practical	and applies it	orthodontics		Practical
					application
13	2 hours	Student	Crossbite in	Theoretical	Written
	theoretical, 5	understands	orthodontics	+ Practical	exams,
	hours	the material			Attendance,
	practical	and applies it			Practical
					application
14	2 hours	Student	Bad habits and	Theoretical	Written
	theoretical, 5	understands	Habit breaker	+ Practical	exams,
	hours	the material			Attendance,
	practical	and applies it			Practical
					application
15	2 hours	Student	Bite plane and	Theoretical	Written
	theoretical, 5	understands	Retainers	+ Practical	exams,
	hours	the material			Attendance,
	practical	and applies it			Practical
					application
Course	Assessment:				

Course Assessment:

The grade distribution is out of 100 for each semester: 40 marks for annual effort (based on assigned tasks such as daily preparation, daily, oral, monthly, and written exams, and reports) + 25 marks for practical final exam + 35 marks for theoretical final exam.

Learning and Teaching Resources:

145. Required Textbooks:

1.	Text book of orthodontic
146.	Main References:
1.	Textbook of prosthodontic
147.	Supporting Books and References (Scientific journals, reports):
1.	Al-Teqni Journal
2.	Baghdad University Dental College Journal
3.	Al-Mustansiriya University Dental College Journal
148.	Electronic References, Internet Sites:
1.	Ashur University website
2.	College of Health and Medical Technologies - Baghdad website

Course Nam	ne: Crow	vns and Bridges	/ Third Level		
Course Code	: Crown	and Bridge			
Semesters:					
First Semeste	er: Basic	Bridges / 15 wee	ks;		
Second Sem	ester: Ac	lvanced Bridges	15 weeks		
Semester/Ye	ar: 2024/	2520			
Date of Desc	ription P	Preparation: 22/9/2	2024		
Available At	tendance	Modes: Mandate	ory attendance		
Total Study I 105/4	Hours (T	otal)/Total Units	(Total): First Semester =	90/4, Second S	Semester =
Course Instru	actor:				
Name: Rana		<b>1</b>			
Email: dr.ra	namj@g	mail.com			
Course Object					
			the materials used in the	manufacture of	f crowns and
U		ow to deal with the			
		lents in the denta	l technologies departmer	nt to manufactur	re fixed crowns
	ridges.				
Learning and		ng Strategies:			
151. Lectu					
		aids inside the ha	11		
	active lec				
154. Use c		OW			
Course Struc	ture:				
			emester / Basic Bridges:		
Week	Hours	Required Learning Outcomes	Unit/Topic Name	Learning Method	Assessment Method
First	6	Student identifies the topic	Fixed partial dentures design, types & indications.	Theoretical + Practical	Quiz + Attendance
Second	6	Student understands the topic	Pontic design.	Theoretical + Practical	Quiz + Attendance
Third	6	Student understands the topic	Connectors for a fixed partial denture	Theoretical + Practical	Quiz + Attendance

Fourth	6	Student understands the topic	A framework design for metal ceramic restoration	Theoretical + Practical	Quiz + Attendance
Fifth	6	Student understands the topic	Methods of waxing framework (coping)	Theoretical + Practical	Quiz + Attendance
Sixth	6	Student understands the topic	The procedure of waxing framework (coping)	Theoretical + Practical	Quiz + Attendance
Seventh	6	Student understands the topic	Spruning procedure, investing	Theoretical + Practical	Quiz + Attendance
Eighth	6	Student understands the topic	Alloys and metal selection for metal ceramic restoration	Theoretical + Practical	Quiz + Attendance
Ninth	6	Student understands the topic	Casting ring and liner, Burn out and casting	Theoretical + Practical	Quiz + Attendance
Tenth	6	Student understands the topic	Provisional crown & bridge materials & techniques.	Theoretical + Practical	Quiz + Attendance
Eleventh	6	Student understands the topic	Preparation of metal copy for metal ceramic restoration (anterior)	Theoretical + Practical	Quiz + Attendance
Twelfth	6	Student understands the topic	Preparation of metal copy for metal ceramic restoration (posterior)	Theoretical + Practical	Quiz + Attendance
Thirteenth	6	Student understands the topic	Bonding of ceramic to metal	Theoretical + Practical	Quiz + Attendance
Fourteenth	6	Student understands the topic	Provisional restoration: introduction, types	Theoretical + Practical	Quiz + Attendance
Fifteenth	6	Student understands the topic	Provisional restoration: materials and techniques	Theoretical + Practical	Quiz + Attendance
		Second Ser	nester / Advanced Brid	ges:	

Week	Hours	Required Learning Outcomes	Unit/Topic Name	Learning Method	Assessment Method
First	6	Student understands the topic	Laboratory failure of the bridge	Theoretical + Practical	Quiz + Attendance
Second	6	Student understands the topic	Soldering and welding	Theoretical + Practical	Quiz + Attendance
Third	6	Student understands the topic	Types of ceramic according to composition and temperature	Theoretical + Practical	Quiz + Attendance
Fourth	6	Student understands the topic	Step-by-step procedure of porcelain build-up (1)	Theoretical + Practical	Quiz + Attendance
Fifth	6	Student understands the topic	Step-by-step procedure of porcelain build-up (2)	Theoretical + Practical	Quiz + Attendance
Sixth	6	Student understands the topic	Step-by-step procedure of porcelain build-up (3)	Theoretical + Practical	Quiz + Attendance
Seventh	6	Student understands the topic	All ceramic restoration: types	Theoretical + Practical	Quiz + Attendance

Eighth	6	Student understands the topic	All ceramic restoration techniques	Theoretical + Practical	Quiz + Attendance
Ninth	6	Student understands the topic	Retainer for a removable partial denture: types and indications	Theoretical + Practical	Quiz + Attendance
Tenth	6	Student understands the topic	Retainer for a removable partial denture: technique	Theoretical + Practical	Quiz + Attendance
Eleventh	6	Student understands the topic	Resin bonded bridge: types	Theoretical + Practical	Quiz + Attendance
Twelfth	6	Student understands the topic	Resin bonded bridge: procedure of fabrication	Theoretical + Practical	Quiz + Attendance
Thirteenth	6	Student understands the topic	Implant- supported fixed prosthesis: types	Theoretical + Practical	Quiz + Attendance
Fourteenth	6	Student understands the topic	Implant- supported fixed prosthesis: procedure	Theoretical + Practical	Quiz + Attendance

Fift	eenth	6	Student understands the topic	Clinical Failure in bridge	Theoretical + Practical	Quiz + Attendance		
Cours	e Assessn	nent:						
The g	rade distri	bution is c	out of 100 for eac	h semester: 40 ma	rks for annual ef	fort (based on		
assign	assigned tasks such as daily preparation, daily, oral, monthly, and written exams, and reports)							
+ 25 r	+ 25 marks for practical final exam + 35 marks for theoretical final exam.							
Learn	Learning and Teaching Resources:							
155.	155. Required Textbooks: Not specified							
156.	Main References:							
1.	Contemporary fixed prosthodontics / 5th edition.							
2.	Shillingburg Fundamentals of fixed prosthodontics.							
157.	Supporting Books and References (Scientific journals, reports):							
1.	Journal of Dentistry / University of Baghdad							
2.			y / Al-Mustansir	• •				
3.				ge of Health and M	Iedical Technolo	ogies		
158.			ices, Internet Site	1				
U				h semester: 40 mar		`		
0			• I I	aily, oral, monthly,		ms, and reports)		
		•		arks for theoretica	l final exam.			
Learn	0	eaching Re						
•			ks: Text book of					
•			Textbook of pros		( )			
•	11	0	and References (	Scientific journals	, reports):			
0	1	i Journal						
0	0		•	ersity of Baghdad	naity			
0	0		•	Iustansiriya Univer	isity			
•	Electronic References, Internet Sites: Ashur University website							
0		2		halogias Dockd	ad wahaita			
0	College	of Health	and medical Tec	hnologies - Baghda	au website			

Here is the English translation of the provided document:

Course Description

Course Name: Computer Applications / Third Level

Semesters: First Semester: Computer Applications 1 / 15 weeks

Second Semester: Computer Applications 2 / 15 weeks

Course Code:

Semester/Year: 2024/2520

Date of Description Preparation: 22/9/2024

Available Attendance Modes: Mandatory attendance

Total Study Hours (Total)/Total Units (Total): First Semester = 45/2, Second Semester = 45/2

Course Instructor(s) (if more than one name is mentioned):

Name: Dr. Rabee Ali

Email: [Not provided in document]

Name: Ahmed Rasheed

Course Objectives:

- 159. To introduce students to the general principles of computer applications.
- 160. To enable students to deal with basic computer applications, specifically Microsoft Excel.

Learning and Teaching Strategies:

- 161. Lectures
- 162. Use of visual aids inside the classroom
- 163. Interactive lectures
- 164. Use of data show

## Course Structure:

Week	Hours	Required Learning Outcomes	Unit/Topic Name	Learning Method	Assessment Method
First	6	Student identifies the topic	Introduction to Excel, its benefits, specifications, concept, and operation method	Theoretical + Practical	Quiz + Attendance
Second	6	Student understands the topic	Introduction to the main screen, its components, tools, and menu bar	Theoretical + Practical	Quiz + Attendance
Third	6	Student understands the topic	Cell concept, basic data types, and how to enter them	Theoretical + Practical	Quiz + Attendance
Fourth	6	Student understands the topic	How to save a workbook, close the file, and close the program	Theoretical + Practical	Quiz + Attendance
Fifth	6	Student understands the topic	Opening a saved file, entering data, performing simple calculations, and cell formatting methods	Theoretical + Practical	Quiz + Attendance
Sixth	6	Student understands the topic	Introduction to different ways of collecting data or groups of cells and sorting data	Theoretical + Practical	Quiz + Attendance
Seventh	6	Student understands the topic	Using some common functions: Count, Sqrt, Average, Sum, Min, Max	Theoretical + Practical	Quiz + Attendance

First Semester / Computer Applications 1

Eighth	6	Student understands the topic	Cell revision process: copying data, moving data, copying formulas, absolute and relative cells	Theoretical + Practical	Quiz + Attendance
Ninth	6	Student understands the topic	Controlling cell display, changing its style through formatting tools	Theoretical + Practical	Quiz + Attendance
Tenth	6	Student understands the topic	Dealing with Charts, their components and different elements, and identifying their types	Theoretical + Practical	Quiz + Attendance
Eleventh	6	Student understands the topic	Methods of creating charts, choosing different chart types, and their concepts	Theoretical + Practical	Quiz + Attendance
Twelfth	6	Student understands the topic	Modifying data and charts and performing various revisions on them	Theoretical + Practical	Quiz + Attendance
Thirteenth	6	Student understands the topic	Dealing with Lists, conditions for creating a list, sorting lists	Theoretical + Practical	Quiz + Attendance
Fourteenth	6	Student understands the topic	Filtering lists, especially automatic and advanced filtering	Theoretical + Practical	Quiz + Attendance
Fifteenth	6	Student understands the topic	How to add or delete rows or columns, how to print a worksheet as data and charts	Theoretical + Practical	Quiz + Attendance

Second Semester / Computer Applications 2

Week	Hours	Required Learning Outcomes	Unit/Topic Name	Learning Method	Assessment Method
First	6	Student understands the topic	SPSS Statistical Program: concept, operation, data analysis steps	Theoretical + Practical	Quiz + Attendance
Second	6	Student understands the topic	Main screen components, data entry, saving and retrieving files, direct data types	Theoretical + Practical	Quiz + Attendance
Third	6	Student understands the topic	Sorting and swapping data, defining statistical procedures, inserting a variable or case, merging files	Theoretical + Practical	Quiz + Attendance
Fourth	6	Student understands the topic	Descriptive analysis: statistical data summary, data exploration, reports by row or column	Theoretical + Practical	Quiz + Attendance
Fifth	6	Student understands the topic	Comparing means, comparing variables, linear regression	Theoretical + Practical	Quiz + Attendance
Sixth	6	Student understands the topic	Performing non- parametric tests such as Chi-square	Theoretical + Practical	Quiz + Attendance
Seventh	6	Student understands the topic	Quality control applications	Theoretical + Practical	Quiz + Attendance
Eighth	6	Student understands the topic	Dealing with charts and others	Theoretical + Practical	Quiz + Attendance

Ninth	6	Student understands the topic	Dealing with statistical applications such as cross-tabulations	Theoretical + Practical	Quiz + Attendance
Tenth	6	Student understands the topic	One-way ANOVA model, basic statistical tables	Theoretical + Practical	Quiz + Attendance
Eleventh	6	Student understands the topic	PowerPoint Program: concept, benefits, operation, main screen components, concept of presentations	Theoretical + Practical	Quiz + Attendance
Twelfth	6	Student understands the topic	Building a new presentation from ready- made templates, saving the file, performing the presentation, modifying and saving changes, planning to build a presentation	Theoretical + Practical	Quiz + Attendance
Thirteenth	6	Student understands the topic	How to add drawings using drawing tools, inserting a new slide (text or drawings), adding notes, entering titles, modifying text, controlling its format	Theoretical + Practical	Quiz + Attendance
Fourteenth	6	Student understands the topic	Controlling slide colors and background, adding ready-made clip art or media and images, zooming in and out, adding charts or tables from Excel	Theoretical + Practical	Quiz + Attendance
Fifteenth	6	Student understands the topic	Adding data from Excel, dealing with display commands	Theoretical + Practical	Quiz + Attendance

Note: Some column headers and rows were combined or slightly rephrased for clarity in English.

**Course Description** 

Course Name: Research Methods / Third Level

Course Code: RES20302

Semester/Year: 2024/2025 (Second Course)

Date of Description Preparation: 1/12/2024

Available Attendance Modes: Mandatory in-person attendance

Total Study Hours (Total): 15 / Total Units (Total): 1

Course Instructor:

Name: M. M. Hassan Abdul Rahim Karim

Email: <u>hassandentist71@yahoo.com</u>

Course Objectives:

165. To introduce students to how to conduct research, especially the practical aspect.

166. To enable students to write research papers and theses.

## Learning and Teaching Strategies:

167. Lectures

- 168. Use of visual aids inside the hall
- 169. Interactive lecture
- 170. Use of data show

## Course Structure:

Course Sur	Course Structure:							
Week	Hours	Required Learning Outcomes	Unit/Topic Name	Learning Method	Assessment Method			
First	1	Student understands the material	Principles of research	Theoretical	Daily exam + Attendance			
Second	1	Student understands the material	Scientific methods	Theoretical	Daily exam + Attendance			
Third	1	Student understands the material	Designing the research plan	Theoretical	Daily exam + Attendance			
Fourth	1	Student understands the material	Variables	Theoretical	Daily exam + Attendance			
Fifth	1	Student understands the material	Data collection methods	Theoretical	Daily exam + Attendance			
Sixth	1	Student understands the material	Data analysis	Theoretical	Daily exam + Attendance			

Seventh	1	Q 4	Ethical considerations in	Theoretical	Della martin	
Seventh	1	Student understands the material	research	Ineoretical	Daily exam + Attendance	
Eighth	1	Student understands the material	Clinical trials	Theoretical	Daily exam + Attendance	
Ninth	1	Student understands the material	Research problem formation	Theoretical	Daily exam + Attendance	
Tenth	1	Student understands the material	Research proposal writing	Theoretical	Daily exam + Attendance	
Eleventh	1	Student understands the material	Pilot study	Theoretical	Daily exam + Attendance	
Twelfth	1	Student understands the material	Research elements (Introduction)	Theoretical	Daily exam + Attendance	
Thirteenth	1	Student understands the material	Research elements (Literature review)	Theoretical	Daily exam + Attendance	
Fourteenth	1	Student understands the material	Research elements (materials and methods)	Theoretical	Daily exam + Attendance	
Fifteenth	1	Student understands the material	Research elements (Results, discussion, and conclusion)	Theoretical	Daily exam + Attendance	
Course Assessment:						
The grade distribution is out of 100: 30 marks for annual effort (based on assigned tasks such						
as daily preparation, daily, oral, monthly, and written exams, and reports) + 70 marks for						
theoretical fi	nal exan	n.				
Learning and	l Teachi	ng Resources:				

171. Required Textbooks (Curriculum if available): Not specified

172. Main References (Sources):

Handbook of Research Methodology, A Compendium for Scholars & Researchers (Based on revised syllabus of research methodology of various universities)<sup>1</sup> by Dr. Shanti Bhushan Mishra & Dr. Shashi Alok, EDUCREATION PUBLISHING (Since 2017)

173. Supporting Books and References (Scientific journals, reports): Not specified

174. Electronic References, Internet Sites: Not specified

**Course Description** 

Course Name: Complete Denture (Intermediate) / Third Level

Course Code:

First Semester: (15 weeks),

2024-2025

Date of Description Preparation: 20/9/2024

Available Attendance Modes: Mandatory attendance

Total Study Hours (Total)/Total Units (Total): 90/4

Course Instructor:

Name: M. M. Noor Ahmed Jassim,

Email: <u>nooralatool@yahoo.com</u>

Course Objectives:

- 175. General Objective: To familiarize the student with the materials used in the fabrication of complete dentures and how to deal with them.
- 176. Specific Objective: To enable dental technology students to fabricate complete dentures.

Learning and Teaching Strategies:

177. Lectures and discussion lectures

- 178. Use of visual aids and short educational films
- 179. Interactive applications

Course Structure:

Week	Hours	Learning Outcomes	Unit/Topic Name	Learning Method	Assessment Method
First	6	Student identifies	Retention, stability and support	Theoretical + Practical	Written exams, Attendance
Second	6	Student understands the topic	Mandibular movements	Theoretical + Practical	Written exams, Attendance
Third	6	Student understands the topic	Eccentric occlusion and Lingulized occlusion	Theoretical + Practical	Written exams, Attendance
Fourth	6	Student understands the topic	Arrangement of maxillary and mandibular teeth in Cl. II & Cl. III	Theoretical + Practical	Written exams, Attendance
Fifth	6	Student understands the topic	Neutral zone	Theoretical + Practical	Written exams
Sixth	6	Student understands the topic	Clinical remounting and laboratory remounting of complete denture	Theoretical + Practical	Written exams, Attendance


Seventh	6	Student understands the topic	Denture delivery	Theoretical + Practical	Written exams, Attendance
Eighth	6 Student 6 understands the topic		Relining of complete denture	Theoretical + Practical	Written exams, Attendance
Ninth	6	Student understands the topic	Rebasing of complete denture	Theoretical + Practical	Written exams, Attendance
Tenth	6	Student understands the topic	Duplication of complete denture	Theoretical + Practical	Written exams, Attendance
Eleventh	6	Student understands the topic	Immediate complete denture: part 1	Theoretical + Practical	Written exams, Attendance
Twelfth	Student		Immediate complete Denture: part 2	Theoretical + Practical	Written exams, Attendance
Thirteenth	Student		Overdenture	Theoretical + Practical	Written exams, Attendance
Fourteenth	ourteenthStudentSingle complete dentu6understands theopposing natural or		Single complete denture opposing natural or artificial teeth	Theoretical + Practical	Written exams, Attendance
Fifteenth	6	Student understands the topic	Digital system for complete denture procedure	Theoretical + Practical	Written exams, Attendance

Course Assessment:

The grade distribution is out of 100 for each semester: 40 marks for annual effort (25 theoretical + 15 practical) based on assigned tasks such as daily preparation, daily, oral, monthly, and written exams, and reports + 25 marks for practical final exam + 35 marks for theoretical final exam.

Learning and Teaching Resources:

180.	Required Textbooks: Not specified

181. Main References:

- 1. McCRACKEN Removable Partial Prosthodontics
- 2. Essential of removable partial denture by K. Bhasker
- 182. Supporting Books and References (Scientific journals, reports):
- 1. Journal of Dentistry / University of Baghdad
- 2. Journal of Dentistry / Al-Mustansiriya University
- 183. Electronic References, Internet Sites:

1.	Ashur University website
2.	College of Health and Medical Technologies - Baghdad website

Course	Descri	ption
Course	Deser	puon

Course Name: Orthodontics / Fourth Level

Course Code:

Study Duration: Annual,

2024-2025

Date of Description Preparation: 20/9/2024

Available Attendance Modes: Mandatory attendance

Total Study Hours (Total)/Total Units (Total): 150/7

Course Instructor:

Name: M.M. Noor Ahmed Jassim

Email: nooralatool@yahoo.com

Course Objectives:

- **184.** To teach students the general concept of orthodontics.
- **185.** To teach students about the components of orthodontic appliances (acrylic).
- **186.** To guide students on how to work in the orthodontic (acrylic) manufacturing laboratory.
- **187.** To teach students how to overcome errors and find solutions for them in the laboratory during the manufacturing of orthodontic appliances.

# Learning and Teaching Strategies:

**188.** Lectures and discussion lectures

**189.** Use of visual aids and short educational films

**190.** Practical applications

#### Course Structure:

Week	Hour s	Learning Outcomes	Unit/Topic Name	Learning Method	Assessmen t Method
First	5	Student identifies	Orthodontic terms.	Theoretica l + Practical	Written and practical exams, Attendance
Second	5	Student understand s the topic	Development of normal occlusion.	Theoretica l + Practical	Written and practical

					exams, Attendance
Third	5	Student understand s the topic	Malocclusion: types & classification.	Theoretica l + Practical	Written and practical exams, Attendance
Fourth	5	Student understand s the topic	Impression and cast construction for orthodontic appliance.	Theoretica l + Practical	Written and practical exams, Attendance
Fifth	5	Student understand s the topic	Orthodontic wires.	Theoretica l + Practical	Written and practical exams, Attendance
Sixth	5	Student understand s the topic	Clasps: types and function.	Theoretica l + Practical	Written and practical exams, Attendance
Seventh	5	Student understand s the topic	Adams clasp.	Theoretica l + Practical	Written and practical exams, Attendance
Eighth	5	Student understand s the topic	Ball end clasp.	Theoretica l + Practical	Written and practical

					exams, Attendance
Ninth	5	Student understand s the topic	Southend clasp.	Theoretica l + Practical	Written and practical exams, Attendance
Tenth	5	Student understand s the topic	Buccal canine retractor.	Theoretica l + Practical	Written and practical exams, Attendance
Eleventh	5	Student understand s the topic	Labial bow.	Theoretica l + Practical	Written and practical exams, Attendance
Twelfth	5	Student understand s the topic	Springs: types.	Theoretica l + Practical	Written and practical exams, Attendance
Thirteenth	5	Student understand s the topic	Z-spring.	Theoretica l + Practical	Written and practical exams, Attendance
Fourteenth	5	Student understand s the topic	Finger spring.	Theoretica l + Practical	Written and practical exams, Attendance

Fifteenth	5	Student understand s the topic	Screw for orthodontic appliance.	Theoretica l + Practical	Written and practical exams, Attendance
Sixteenth	5	Student understand s the topic	Myofunctiona l appliance.	Theoretica 1 + Practical	Written and practical exams, Attendance
Seventeent h	5	Student understand s the topic	Bite plane.	Theoretica l + Practical	Written and practical exams, Attendance
Eighteenth	5	Student understand s the topic	Bite plane for anterior deep bite.	Theoretica l + Practical	Written and practical exams, Attendance
Nineteenth	5	Student understand s the topic	Bite plane for posterior crossbite.	Theoretica l + Practical	Written and practical exams, Attendance
Twentieth	5	Student understand s the topic	Construction of orthodontic appliance.	Theoretica l + Practical	Written and practical exams, Attendance

Twenty- First	5	Student understand s the topic	Acrylic processing for orthodontic appliance.	Theoretica l + Practical	Written and practical exams, Attendance
Twenty- Second	5	Student understand s the topic	Finishing and polishing of orthodontic appliance.	Theoretica 1 + Practical	Written and practical exams, Attendance
Twenty- Third	5	Student understand s the topic	Repair of orthodontic appliance.	Theoretica l + Practical	Written and practical exams, Attendance
Twenty- Fourth	5	Student understand s the topic	Retainers.	Theoretica l + Practical	Written and practical exams, Attendance
Twenty- Fifth	5	Student understand s the topic	Retainers.	Theoretica l + Practical	Written and practical exams, Attendance
Twenty- Sixth	5	Student understand s the topic	Space maintainers.	Theoretica l + Practical	Written and practical exams, Attendance

Twenty- Seventh	5	Student understand s the topic	Bad habits.	Theoretica l + Practical	Written and practical exams, Attendance
Twenty- Eighth	5	Student understand s the topic	Habit breaker.	Theoretica l + Practical	Written and practical exams, Attendance
Twenty- Ninth	5	Student understand s the topic	Fixed orthodontic appliance.	Theoretica l + Practical	Written and practical exams, Attendance
Thirtieth	5	Student understand s the topic	Fixed orthodontic appliance.	Theoretica l + Practical	Written and practical exams, Attendance

Course Assessment:

The grade distribution is out of 100: 40 marks for annual effort (25 theoretical + 15 practical) based on assigned tasks such as daily preparation, daily, oral, monthly, and written exams, and reports + 25 marks for practical final exam + 35 marks for theoretical final exam.

Learning and Teaching Resources:

- 191. Required Textbooks:
- 1. An Introduction to Orthodontics, 4th Edition by Laura Mitchell
- 192. Main References: Not specified
- 193. Supporting Books and References (Scientific journals, reports):
- 1. Journal of Dentistry / University of Baghdad
- 2. Journal of Dentistry / Al-Mustansiriya University
- 194. Electronic References, Internet Sites:
- 1. Ashur University website
- 116

2. College of Health and Medical Technologies - Baghdad website

Course Description

Course Name: Crowns and Bridges / Fourth Level

Course Code: Crown and Bridge

Semester/Year: 2024-2025

Date of Description Preparation: 11/9/2024

Available Attendance Modes: Mandatory attendance

Total Study Hours (Total)/Total Units (Total): 180/8

Course Instructor(s) (if more than one name is mentioned):

Name: M.M. Noor Ahmed Jassim

Email: <a href="mailto:nooralatool@yahoo.com">nooralatool@yahoo.com</a>

Course Objectives:

- 195. To familiarize the student with the materials used in the manufacture of crowns and bridges and how to deal with them.
- 196. To enable students in the dental technologies department to manufacture fixed crowns and bridges.

Learning and Teaching Strategies:

197. Lectures

- 198. Use of visual aids inside the hall
- 199. Interactive lecture
- 200. Use of data show
- 201. Practical application

Course Structure:

Week	Hour s	Required Learning Outcomes	Unit/Topic Name	Learning Method	Assessmen t Method
First	6	Student identifies the topic	Introduction on crown and bridge.	Theoretica l + Practical	Quiz + Attendance
Second	6	Student understand s the topic	Principles of tooth preparation	Theoretica l + Practical	Quiz + Attendance
Third	6	Student understand s the topic	Biological consideration s	Theoretica l + Practical	Quiz + Attendance

Fourth	6	Student understand s the topic	Periodontal consideration s	Theoretica l + Practical	Quiz + Attendance
Fifth	6	Student understand s the topic	Impression materials for crown & bridge.	Theoretica l + Practical	Quiz + Attendance
Sixth	6	Student understand s the topic	Die system and methods for its fabrication.	Theoretica l + Practical	Quiz + Attendance
Seventh	6	Student understand s the topic	Waxing of metal coping.	Theoretica l + Practical	Quiz + Attendance
Eighth	6	Student understand s the topic	Spruing of metal coping.	Theoretica l + Practical	Quiz + Attendance
Ninth	6	Student understand s the topic	Investing & casting of metal coping.	Theoretica l + Practical	Quiz + Attendance
Tenth	6	Student understand s the topic	Finishing & polishing of metal coping.	Theoretica l + Practical	Quiz + Attendance
Eleventh	6	Student understand s the topic	All ceramic restoration / types.	Theoretica l + Practical	Quiz + Attendance
Twelfth	6	Student understand s the topic	All ceramic restoration / types.	Theoretica l+ Practical	Quiz + Attendance

Thirteenth	6	Student understand s the topic	All ceramic restoration / technique.	Theoretica l + Practical	Quiz + Attendance
Fourteenth	6	Student understand s the topic	All ceramic restoration / technique.	Theoretica l + Practical	Quiz + Attendance
Fifteenth	6	Student understand s the topic	Porcelain build-up / technique.	Theoretica l + Practical	Quiz + Attendance
Sixteenth	6	Student understand s the topic	Porcelain build-up / technique.	Theoretica l + Practical	Quiz + Attendance
Seventeent h	6	Student understand s the topic	Porcelain build-up / technique.	Theoretica l + Practical	Quiz + Attendance
Eighteenth	6	Student understand s the topic	All ceramic fixed restoration / technique.	Theoretica l + Practical	Quiz + Attendance
Nineteenth	6	Student understand s the topic	All ceramic fixed restoration / technique.	Theoretica l + Practical	Quiz + Attendance
Twentieth	6	Student understand s the topic	All ceramic fixed restoration / technique.	Theoretica l + Practical	Quiz + Attendance
Twenty- First	6	Student understand s the topic	All ceramic fixed	Theoretica l+ Practical	Quiz + Attendance

			restoration / technique.		
Twenty- Second	6	Student understand s the topic	All ceramic fixed restoration / technique.	Theoretica l + Practical	Quiz + Attendance
Twenty- Third	6	Student understand s the topic	Provisional crown & bridge / materials.	Theoretica l + Practical	Quiz + Attendance
Twenty- Fourth	6	Student understand s the topic	Provisional crown & bridge / technique.	Theoretica l + Practical	Quiz + Attendance
Twenty- Fifth	6	Student understand s the topic	Soldering and welding in crown and bridge.	Theoretica l + Practical	Quiz + Attendance
Twenty- Sixth	6	Student understand s the topic	Retainers for removable partial denture.	Theoretica l + Practical	Quiz + Attendance
Twenty- Seventh	6	Student understand s the topic	Resin bonded bridge / mechanical one.	Theoretica l + Practical	Quiz + Attendance
Twenty- Eighth	6	Student understand s the topic	Resin bonded bridge / chemical one.	Theoretica l + Practical	Quiz + Attendance

Twenty- Ninth	6	Student understand s the topic	Failure of crown & bridge / clinical.	Theoretica l + Practical	Quiz + Attendance
Thirtieth	6	Student understand s the topic	Failure of crown & bridge / laboratory failure.	Theoretica l + Practical	Quiz + Attendance

Course Assessment:

The grade distribution is out of 100: 40 marks for annual effort (25 theoretical + 15 practical) based on assigned tasks such as daily preparation, daily, oral, monthly, and written exams, and reports + 25 marks for practical final exam + 35 marks for theoretical final exam.

Learning and Teaching Resources:

**202.** Required Textbooks (Curriculum if available): Not specified

**203.** Main References (Sources):

**1.** Contemporary fixed prosthodontics / 5th edition.

2. Shillingburg Fundamentals of fixed prosthodontics.

**204.** Supporting Books and References (Scientific journals, reports):

**1.** Journal of Dentistry / University of Baghdad

2. Journal of Dentistry / Al-Mustansiriya University

3. The electronic website of the College of Health and Medical Technologies

205. Electronic References, Internet Sites: Not specified

**Course Description** 

Course Name: Implants / Fourth Level

Course Code:

Study Duration: Annual,

2024-2025

Date of Description Preparation: 20/9/2024

Available Attendance Modes: Mandatory attendance

Total Study Hours (Total)/Total Units (Total): 150/7

Course Instructor:

Name: Dr. Abdul Wahab Abdul Razzaq Katea

Email:

Course Objectives:

206. To familiarize the student with the materials used in dental implants and how to deal with them.

207. To enable dental technology students to fabricate dental implant prostheses.

Learning and Teaching Strategies:

208. Lectures and discussion lectures

209. Use of visual aids and short educational films

Course Structure:

Week	Hour s	Learning Outcomes	Unit/Topic Name	Learning Method	Assessmen t Method
First	5	Student identifies	Introduction implant terminology and historical background	Theoretica l + Practical	Written and practical exams, Attendanc e
Second	5	Student understand s the topic	Indications and contraindication s for dental implants	Theoretica l + Practical	Written and practical exams, Attendanc e

Third	5	Student understand s the topic	Osseous integration and factors affecting Osseo integration	Theoretica l + Practical	Written and practical exams, Attendanc e
Fourth	5	Student understand s the topic	Dental implant components	Theoretica l + Practical	Written and practical exams, Attendanc e
Fifth	5	Student understand s the topic	Dental implant classifications	Theoretica l + Practical	Written and practical exams, Attendanc e
Sixth	5	Student understand s the topic	Surgical procedures for dental implant placement	Theoretica l + Practical	Written and practical exams, Attendanc e
Seventh	5	Student understand s the topic	Implant impression techniques	Theoretica l + Practical	Written and practical exams, Attendanc e
Eighth	5	Student understand s the topic	Implant impression materials	Theoretica l + Practical	Written and practical

					exams, Attendanc e
Ninth	5	Student understand s the topic	Abutments: types and uses	Theoretica l + Practical	Written and practical exams, Attendanc e
Tenth	5	Student understand s the topic	Abutment selection	Theoretica l + Practical	Written and practical exams, Attendanc e
Eleventh	5	Student understand s the topic	Crown over dental implant	Theoretica l + Practical	Written and practical exams, Attendanc e
Twelfth	5	Student understand s the topic	Bridge over dental implant	Theoretica l + Practical	Written and practical exams, Attendanc e
Thirteenth	5	Student understand s the topic	Provisional restoration over dental implant	Theoretica l + Practical	Written and practical exams, Attendanc e

Fourteenth	5	Student understand s the topic	Provisional restoration over dental implant	Theoretica l + Practical	Written and practical exams, Attendanc e
Fifteenth	5	Student understand s the topic	Cementation over dental implant	Theoretica l + Practical	Written and practical exams, Attendanc e
Sixteenth	5	Student understand s the topic	Cementation over dental implant	Theoretica l + Practical	Written and practical exams, Attendanc e
Seventeent h	5	Student understand s the topic	Porcelain over dental implant	Theoretica l + Practical	Written and practical exams, Attendanc e
Eighteenth	5	Student understand s the topic	Porcelain over dental implant	Theoretica l + Practical	Written and practical exams, Attendanc e
Nineteenth	5	Student understand s the topic	Full arch prosthesis over dental implants	Theoretica l + Practical	Written and practical

					exams, Attendanc e
Twentieth	5	Student understand s the topic	Full arch prosthesis over dental implants	Theoretica l + Practical	Written and practical exams, Attendanc e
Twenty- First	5	Student understand s the topic	Maxillary overdenture over dental implants	Theoretica l + Practical	Written and practical exams, Attendanc e
Twenty- Second	5	Student understand s the topic	Mandibular overdenture over dental implants	Theoretica l + Practical	Written and practical exams, Attendanc e
Twenty- Third	5	Student understand s the topic	Ceramic crowns over dental implants	Theoretica l + Practical	Written and practical exams, Attendanc e
Twenty- Fourth	5	Student understand s the topic	Ceramic crowns over dental implants	Theoretica l + Practical	Written and practical exams, Attendanc e

Twenty- Fifth	5	Student understand s the topic	Intra osseous versus transosseous implant	Theoretica l + Practical	Written and practical exams, Attendanc e
Twenty- Sixth	5	Student understand s the topic	Sinus lift and inferior dental nerve reposition	Theoretica l + Practical	Written and practical exams, Attendanc e
Twenty- Seventh	5	Student understand s the topic	Sinus lift and inferior dental nerve reposition	Theoretica l + Practical	Written and practical exams, Attendanc e
Twenty- Eighth	5	Student understand s the topic	Occlusion for dental implant	Theoretica l + Practical	Written and practical exams, Attendanc e
Twenty- Ninth	5	Student understand s the topic	Ceramic bridge over natural teeth and implants	Theoretica l + Practical	Written and practical exams, Attendanc e
Thirtieth	5	Student understand s the topic	Full ceramic over dental implant	Theoretica l + Practical	Written and practical

				exams, Attendanc e
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Course Assessment:

The grade distribution is out of 100: 40 marks for annual effort (25 theoretical + 15 practical) based on assigned tasks such as daily preparation, daily, oral, monthly, and written exams, and reports + 25 marks for practical final exam + 35 marks for theoretical final exam.

Learning and Teaching Resources:

**210.** Required Textbooks: Not specified

**211.** Main References: Not specified

**212.** Supporting Books and References (Scientific journals, reports):

- 1. Journal of Dentistry / University of Baghdad
- 2. Journal of Dentistry / Al-Mustansiriya University
- **213.** Electronic References, Internet Sites: Not specified

**Course Description** 

Course Name: Maxillofacial Prosthetics / Fourth Level

Course Code:

Study Duration: Annual,

2024-2025

Date of Description Preparation: 20/9/2024

Available Attendance Modes: Mandatory attendance

Total Study Hours (Total)/Total Units (Total): 150/7

Course Instructor:

Name: M.M. Noor Ahmed Jassim

Email: <u>nooralatool@yahoo.com</u>

Course Objectives:

- 214. To familiarize the student with the general concept of maxillofacial prosthetics.
- 215. To teach the student about the types of prosthetic and therapeutic devices specific to maxillofacial prosthetics.
- 216. To teach the student how to evaluate cases of congenital and acquired deformities and participate in the treatment plan for maxillofacial prosthetics.
- 217. To teach the student how to overcome errors and find solutions for them in the laboratory during the manufacturing of prosthetic and therapeutic devices specific to maxillofacial prosthetics.
- 218. To enable the student to use artificial materials specific to maxillofacial prosthetics.

Learning and Teaching Strategies:

- 219. Lectures and discussion lectures
- 220. Use of visual aids and short educational films
- 221. Practical applications

Course Structure:

Week	Hour	Learning	Unit/Topic	Learning	Assessmen
	s	Outcomes	Name	Method	t Method
First	5	Student identifies	Ocular prosthesis	Theoretica l + Practical	Written and practical exams, Attendanc e

Second	5	Student understand s the topic	Orbital prosthesis	Theoretica l + Practical	Written and practical exams, Attendanc e
Third	5	Student understand s the topic	Auricular prosthesis	Theoretica l + Practical	Written and practical exams, Attendanc e
Fourth	5	Student understand s the topic	Fabrication of auricular prosthesis	Theoretica l + Practical	Written and practical exams, Attendanc e
Fifth	5	Student understand s the topic	Nasal prosthesis	Theoretica l + Practical	Written and practical exams, Attendanc e
Sixth	5	Student understand s the topic	Fabrication of nasal prosthesis	Theoretica l + Practical	Written and practical exams, Attendanc e
Seventh	5	Student understand s the topic	Maxillectomy prosthesis	Theoretica l + Practical	Written and practical

					exams, Attendanc e
Eighth	5	Student understand s the topic	Mandibulectom y prosthesis	Theoretica l + Practical	Written and practical exams, Attendanc e
Ninth	5	Student understand s the topic	Surgical obturator	Theoretica l + Practical	Written and practical exams, Attendanc e
Tenth	5	Student understand s the topic	Speech aid prosthesis	Theoretica l + Practical	Written and practical exams, Attendanc e
Eleventh	5	Student understand s the topic	Palatal lift prosthesis	Theoretica l + Practical	Written and practical exams, Attendanc e
Twelfth	5	Student understand s the topic	Velopharyngeal obturator	Theoretica l + Practical	Written and practical exams, Attendanc e

Thirteenth	5	Student understand s the topic	Radiation prostheses	Theoretica l + Practical	Written and practical exams, Attendanc e
Fourteenth	5	Student understand s the topic	Oral stents	Theoretica l + Practical	Written and practical exams, Attendanc e
Fifteenth	5	Student understand s the topic	Trismus appliance	Theoretica l + Practical	Written and practical exams, Attendanc e
Sixteenth	5	Student understand s the topic	Implant- supported maxillofacial prosthesis	Theoretica l + Practical	Written and practical exams, Attendanc e
Seventeent h	5	Student understand s the topic	Extraoral implants	Theoretica l + Practical	Written and practical exams, Attendanc e
Eighteenth	5	Student understand s the topic	Ear prosthesis retained by	Theoretica l + Practical	Written and practical

			osseointegrated implants		exams, Attendanc e
Nineteenth	5	Student understand s the topic	Ear prosthesis retained by spectacles	Theoretica l + Practical	Written and practical exams, Attendanc e
Twentieth	5	Student understand s the topic	Ear prosthesis retained by adhesive	Theoretica l + Practical	Written and practical exams, Attendanc e
Twenty- First	5	Student understand s the topic	Eye prosthesis retained by osseointegrated implants	Theoretica l + Practical	Written and practical exams, Attendanc e
Twenty- Second	5	Student understand s the topic	Eye prosthesis retained by spectacles	Theoretica l + Practical	Written and practical exams, Attendanc e
Twenty- Third	5	Student understand s the topic	Eye prosthesis retained by adhesive	Theoretica l + Practical	Written and practical exams, Attendanc e

Twenty- Fourth	5	Student understand s the topic	Nose prosthesis retained by osseointegrated implants	Theoretica l + Practical	Written and practical exams, Attendanc e
Twenty- Fifth	5	Student understand s the topic	Nose prosthesis retained by spectacles	Theoretica l + Practical	Written and practical exams, Attendanc e
Twenty- Sixth	5	Student understand s the topic	Nose opening device	Theoretica l + Practical	Written and practical exams, Attendanc e
Twenty- Seventh	5	Student understand s the topic	Orthognathic surgery	Theoretica l + Practical	Written and practical exams, Attendanc e
Twenty- Eighth	5	Student understand s the topic	Prosthetic part of cranioplasty	Theoretica l + Practical	Written and practical exams, Attendanc e
Twenty- Ninth	5	Student understand s the topic	Retention of facial prosthesis	Theoretica l + Practical	Written and practical

						exams, Attendanc e
Т	ſhirtieth	5	Student understand s the topic	Psychological management of the maxillofacial prosthetic patient	Theoretica l + Practical	Written and practical exams, Attendanc e

### Course Assessment:

The grade distribution is out of 100: 40 marks for annual effort (25 theoretical + 15 practical) based on assigned tasks such as daily preparation, daily, oral, monthly, and written exams, and reports + 25 marks for practical final exam + 35 marks for theoretical final exam.

Learning and Teaching Resources:

- 222. Required Textbooks:
- 1. Maxillofacial Prosthetics A Multidisciplinary Approach, by John Beumer
- 2. Textbook of Prosthodontics, by Nallaswamy, et al.
- 223. Main References: Not specified
- 224. Supporting Books and References (Scientific journals, reports):
- **1.** Journal of Baghdad University
- 2. Journal of Al-Mustansiriya University
- 225. Electronic References, Internet Sites:
- **1.** Ashur University website
- 2. College of Health and Medical Technologies Baghdad website

Course Description

Course Name: Professional Conduct / Fourth Level

Course Code: Professional ethic

Semester/Year: 2024-2025

Date of Description Preparation: 11/9/2024

Available Attendance Modes: Mandatory attendance

Total Study Hours (Total)/Total Units (Total): 60/2

Course Instructor(s) (if more than one name is mentioned):

Name: M.M. Rana Muwaffaq Khodeir

Email: dr.ranamj@gmail.com

Course Objectives:

- 226. To familiarize the student with the importance of professional conduct in the field of dental technologies.
- 227. To enable dental technology students to interact with patients.

Learning and Teaching Strategies:

- 228. Lectures
- 229. Use of visual aids inside the hall
- 230. Interactive lecture
- 231. Use of data show

Course Structure:

Week	Hour s	Required Learning Outcomes	Unit/Topic Name	Learning Method	Assessmen t Method
First	2	Student identifies the topic	Personality and its importance in	Theoretica 1	Attendance + Written exams

			dealing with patients.		
Second	2	Student understand s the topic	External appearance and its importance for those working in the medical field.	Theoretica 1	Attendance + Written exams
Third	2	Student understand s the topic	Personal hygiene.	Theoretica 1	Attendance + Written exams
Fourth	2	Student understand s the topic	Clinic hygiene.	Theoretica 1	Attendance + Written exams
Fifth	2	Student understand s the topic	Dealing with the patient inside the clinic.	Theoretica 1	Attendance + Written exams
Sixth	2	Student understand s the topic	Patient comfort.	Theoretica 1	Attendance + Written exams

Seventh	2	Student understand s the topic	Dealing with children.	Theoretica 1	Attendance + Written exams
Eighth	2	Student understand s the topic	Children's behavior in the clinic.	Theoretica 1	Attendance + Written exams
Ninth	2	Student understand s the topic	Dealing with patients with special needs.	Theoretica 1	Attendance + Written exams
Tenth	2	Student understand s the topic	Dealing with elderly patients.	Theoretica 1	Attendance + Written exams
Eleventh	2	Student understand s the topic	Professional secrets.	Theoretica 1	Attendance + Written exams
Twelfth	2	Student understand s the topic	Professional confidentiality	Theoretica 1	Attendance + Written exams
Thirteenth	2	Student understand s the topic	Dental ethics.	Theoretica 1	Attendance + Written exams

Fourteenth	2	Student understand s the topic	Rights and duties.	Theoretica 1	Attendance + Written exams
Fifteenth	2	Student understand s the topic	Dealing with colleagues.	Theoretica 1	Attendance + Written exams
Sixteenth	2	Student understand s the topic	Teamwork.	Theoretica 1	Attendance + Written exams
Seventeent h	2	Student understand s the topic	Professional errors.	Theoretica 1	Attendance + Written exams
Eighteenth	2	Student understand s the topic	Common errors.	Theoretica 1	Attendance + Written exams
Nineteenth	2	Student understand s the topic	Error management.	Theoretica 1	Attendance + Written exams
Twentieth	2	Student understand s the topic	Patient psychological preparation.	Theoretica 1	Attendance + Written exams

Twenty- First	2	Student understand s the topic	Types of personalities.	Theoretica 1	Attendance + Written exams
Twenty- Second	2	Student understand s the topic	Etiquette for caring for a sick child.	Theoretica 1	Attendance + Written exams
Twenty- Third	2	Student understand s the topic	Etiquette for caring for disfigured patients.	Theoretica 1	Attendance + Written exams
Twenty- Fourth	2	Student understand s the topic	Responding to patient complaints.	Theoretica 1	Attendance + Written exams
Twenty- Fifth	2	Student understand s the topic	Dealing with pain.	Theoretica 1	Attendance + Written exams
Twenty- Sixth	2	Student understand s the topic	How to treat a child during pain.	Theoretica 1	Attendance + Written exams

Twenty- Seventh	2	Student understand s the topic	Dealing with medical materials.	Theoretica 1	Attendance + Written exams
Twenty- Eighth	2	Student understand s the topic	How to deal with laboratory medical devices used.	Theoretica 1	Attendance + Written exams
Twenty- Ninth	2	Student understand s the topic	Medical law.	Theoretica 1	Attendance + Written exams
Thirtieth	2	Student understand s the topic	Professional responsibility.	Theoretica 1	Attendance + Written exams

Course Assessment:

The grade distribution is out of 100: 30 marks for annual effort (based on assigned tasks such as daily preparation, daily, oral, monthly, and written exams, and reports) + 70 marks for theoretical final exam.

Learning and Teaching Resources:

**232.** Required Textbooks (Curriculum if available): Not specified

**233.** Main References (Sources):

 Professional Ethics in Health Care: A Guide for Dental Professionals by Robert J. Michalski.

- 234. Supporting Books and References (Scientific journals, reports): Not specified
- 235. Electronic References, Internet Sites: Not specified

**Course Description** 

Course Name: Partial Denture / Fourth Level

Course Code:

Study Duration: Annual,

2024-2025

Date of Description Preparation: 20/9/2024

Available Attendance Modes: Mandatory attendance

Total Study Hours (Total)/Total Units (Total): 180 / 8

Course Instructor:

Name: Prof. Mohammed Mudhafar Mohammed Ali

Email: dr.moh.moudh@au.edu.iq

Course Objectives:

- **236.** To teach students the general concept of partial dentures.
- **237.** To teach students about the components of acrylic partial dentures.
- **238.** To guide students on how to work in the acrylic partial denture manufacturing laboratory.
- **239.** To teach students how to overcome errors and find solutions for them in the laboratory during the manufacturing of partial dentures.

# Learning and Teaching Strategies:

- **240.** Lectures and discussion lectures
- **241.** Use of visual aids and short educational films
- **242.** Practical applications

# Course Structure:

Week	Hour s	Learning Outcomes	Unit/Topic Name	Learning Method	Assessmen t Method
First	6	Student identifies	Partially edentulous arch.	Theoretica l + Practical	Written and practical exams, Attendance
Second	6	Student understand s the topic	Major connector: lower.	Theoretica l + Practical	Written and practical
					exams, Attendance
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Third	6	Student understand s the topic	Major connector: upper.	Theoretica l + Practical	Written and practical exams, Attendance
Fourth	6	Student understand s the topic	Minor connector.	Theoretica l + Practical	Written and practical exams, Attendance
Fifth	6	Student understand s the topic	Direct retainer.	Theoretica l + Practical	Written and practical exams, Attendance
Sixth	6	Student understand s the topic	Indirect retainer.	Theoretica l + Practical	Written and practical exams, Attendance
Seventh	6	Student understand s the topic	Rest and rest seat.	Theoretica l + Practical	Written and practical exams, Attendance
Eighth	6	Student understand s the topic	Impression materials for R.P.D.	Theoretica l + Practical	Written and practical exams, Attendance

Ninth	6	Student understand s the topic	Impression tray for R.P.D.	Theoretica l + Practical	Written and practical exams, Attendance
Tenth	6	Student understand s the topic	Master cast and surveying.	Theoretica 1 + Practical	Written and practical exams, Attendance
Eleventh	6	Student understand s the topic	Design for R.P.D.	Theoretica l + Practical	Written and practical exams, Attendance
Twelfth	6	Student understand s the topic	Wax pattern for R.P.D.	Theoretica l + Practical	Written and practical exams, Attendance
Thirteenth	6	Student understand s the topic	Spruing and investing for R.P.D.	Theoretica l + Practical	Written and practical exams, Attendance
Fourteenth	6	Student understand s the topic	Burnout and casting for R.P.D.	Theoretica l + Practical	Written and practical exams, Attendance

Fifteenth	6	Student understand s the topic	Components of a removable partial denture.	Theoretica l + Practical	Written and practical exams, Attendance
Sixteenth	6	Student understand s the topic	Framework of a removable partial denture.	Theoretica l + Practical	Written and practical exams, Attendance
Seventeent h	6	Student understand s the topic	Metal finish line.	Theoretica l + Practical	Written and practical exams, Attendance
Eighteenth	6	Student understand s the topic	Framework try-in.	Theoretica l + Practical	Written and practical exams, Attendance
Nineteenth	6	Student understand s the topic	Jaw relation for R.P.D.	Theoretica l + Practical	Written and practical exams, Attendance
Twentieth	6	Student understand s the topic	Tooth arrangement for R.P.D.	Theoretica l + Practical	Written and practical exams, Attendance

Twenty First	7-	6	Student understand s the topic	Wax-up try-in for R.P.D.	Theoretica l + Practical	Written and practical exams, Attendance
Twenty Second		6	Student understand s the topic	Processing of R.P.D.	Theoretica l + Practical	Written and practical exams, Attendance
Twenty Third	7-	6	Student understand s the topic	Delivery of R.P.D.	Theoretica l + Practical	Written and practical exams, Attendance
Twenty Fourth	7-	6	Student understand s the topic	Finishing & polishing.	Theoretica l + Practical	Written and practical exams, Attendance
Twenty Fifth	7-	6	Student understand s the topic	Soldering and welding.	Theoretica l + Practical	Written and practical exams, Attendance
Twenty Sixth	7-	6	Student understand s the topic	Principles of setting teeth.	Theoretica l + Practical	Written and practical exams, Attendance

Twenty- Seventh	6	Student understand s the topic	Sectional denture part 1.	Theoretica l + Practical	Written and practical exams, Attendance
Twenty- Eighth	6	Student understand s the topic	Sectional denture part 2.	Theoretica l + Practical	Written and practical exams, Attendance
Twenty- Ninth	6	Student understand s the topic	Relining.	Theoretica l + Practical	Written and practical exams, Attendance
Thirtieth	6	Student understand s the topic	Post insertion complications	Theoretica l + Practical	Written and practical exams, Attendance
Course Assessment: The grade distribution is out of 100: 40 marks for annual effort (25 theoretical + 15 practical) based on assigned tasks such as daily preparation, daily, oral, monthly, and written exams,					

and reports + 25 marks for practical final exam + 35 marks for theoretical final exam.

Learning and Teaching Resources:

- 243. Required Textbooks:
- 1. Removable Partial Prosthodontics, 13th Edition by McCRACKEN

244. Main References:

- 1. Removable Partial Prosthodontics by McCRACKEN
- 2. Essential of removable partial denture by K. Bhasker
- 245. Supporting Books and References (Scientific journals, reports):
- 1. Journal of Dentistry / University of Baghdad
- 2. Journal of Dentistry / Al-Mustansiriya University

- Electronic References, Internet Sites: Ashur University website 246.
- 1.
- 2. College of Health and Medical Technologies - Baghdad website

**Course Description** 

Course Name: Complete Denture / Fourth Level

Course Code:

Study Duration: Annual,

2024-2025

Date of Description Preparation: 20/9/2024

Available Attendance Modes: Mandatory attendance

Total Study Hours (Total)/Total Units (Total): 180 / 8

Course Instructor:

Name: Prof. Mohammed Mudhafar Mohammed Ali

Email: dr.moh.moudh@au.edu.iq

Course Objectives:

- **247.** To teach students the general concept of complete dentures.
- 248. To teach students about the components of complete acrylic dentures.
- **249.** To guide students on how to work in the complete acrylic denture manufacturing laboratory.

250. To teach students how to overcome errors and find solutions for them in the laboratory during the manufacturing of complete dentures.

Learning and Teaching Strategies:

**251.** Lectures and discussion lectures

- **252.** Use of visual aids and short educational films
- **253.** Practical applications

Course Structure:

Week		Hours	Learning Outcomes	Unit/Topic Name	Learning Method	Assessment Method
First		6	Student identifies	Anatomical landmarks of upper complete denture	Theoretical + Practical	Written and practical exams, Attendance
Second	1	6	Student understands the topic	Anatomical landmarks of lower complete denture	Theoretical + Practical	Written and practical exams, Attendance

Third	6	Student understands the topic	Primary impression	Theoretical + Practical	Written and practical exams, Attendance
Fourth	6	Student understands the topic	Secondary impression	Theoretical + Practical	Written and practical exams, Attendance
Fifth	6	Student understands the topic	Mandibular movements	Theoretical + Practical	Written and practical exams, Attendance
Sixth	6	Student understands the topic	Jaw relation for complete denture	Theoretical + Practical	Written and practical exams, Attendance
Seventh	6	Student understands the topic	Clinical remounting	Theoretical + Practical	Written and practical exams, Attendance
Eighth	6	Student understands the topic	Laboratory remounting	Theoretical + Practical	Written and practical exams, Attendance
Ninth	6	Student understands the topic	Arrangement of artificial teeth	Theoretical + Practical	Written and practical exams, Attendance
Tenth	6	Student understands the topic	Esthetics for complete denture	Theoretical + Practical	Written and practical

					exams, Attendance
Eleventh	6	Student understands the topic	Phonetics for complete denture	Theoretical + Practical	Written and practical exams, Attendance
Twelfth	6	Student understands the topic	Try-in for complete denture	Theoretical + Practical	Written and practical exams, Attendance
Thirteenth	6	Student understands the topic	Processing of complete denture	Theoretical + Practical	Written and practical exams, Attendance
Fourteenth	6	Student understands the topic	Delivery of complete denture	Theoretical + Practical	Written and practical exams, Attendance
Fifteenth	6	Student understands the topic	Finishing and polishing	Theoretical + Practical	Written and practical exams, Attendance
Sixteenth	6	Student understands the topic	Relining of complete denture	Theoretical + Practical	Written and practical exams, Attendance
Seventeenth	6	Student understands the topic	Rebasing of complete denture	Theoretical + Practical	Written and practical exams, Attendance

Eighteenth	6	Student understands the topic	Repair of complete denture	Theoretical + Practical	Written and practical exams, Attendance
Nineteenth	6	Student understands the topic	Single complete denture	Theoretical + Practical	Written and practical exams, Attendance
Twentieth	6	Student understands the topic	Single complete denture opposing natural or restored teeth	Theoretical + Practical	Written and practical exams, Attendance
Twenty- First	6	Student understands the topic	Single complete denture opposing natural or restored teeth	Theoretical + Practical	Written and practical exams, Attendance
Twenty- Second	6	Student understands the topic	Single complete denture opposing natural or restored teeth	Theoretical + Practical	Written and practical exams, Attendance
Twenty- Third	6	Student understands the topic	Duplication of complete denture	Theoretical + Practical	Written and practical exams, Attendance

Twenty- Fourth	6	Student understands the topic	Immediate complete denture	Theoretical + Practical	Written and practical exams, Attendance
Twenty- Fifth	6	Student understands the topic	Immediate complete denture	Theoretical + Practical	Written and practical exams, Attendance
Twenty- Sixth	6	Student understands the topic	Overdenture	Theoretical + Practical	Written and practical exams, Attendance
Twenty- Seventh	6	Student understands the topic	Overdenture	Theoretical + Practical	Written and practical exams, Attendance
Twenty- Eighth	6	Student understands the topic	Dental Implant	Theoretical + Practical	Written and practical exams, Attendance
Twenty- Ninth	6	Student understands the topic	Post insertion problems	Theoretical + Practical	Written and practical exams, Attendance
Thirtieth	6	Student understands the topic	Post insertion problems	Theoretical + Practical	Written and practical exams, Attendance

Course Assessment:

The grade distribution is out of 100: 40 marks for annual effort (25 theoretical + 15 practical) based on assigned tasks such as daily preparation, daily, oral, monthly, and written exams, and reports + 25 marks for practical final exam + 35 marks for theoretical final exam.

Learn	ing and Teaching Resources:
254.	Required Textbooks:
1.	Complete Denture Prosthodontics by Sharry J.
2.	Boucher's Prosthodontic Treatment for Edentulous Patients
255.	Main References: Not specified
256.	Supporting Books and References (Scientific journals, reports):
1.	Journal of Dentistry / University of Baghdad
2.	Journal of Dentistry / Al-Mustansiriya University
257.	Electronic References, Internet Sites:
1.	Ashur University website
2.	College of Health and Medical Technologies - Baghdad website