Ministry of Higher Education and Scientific Research
Supervision and Scientific Evaluation Authority
Department of Quality Assurance andAcademic Accreditation
Accreditation Division

Academic Program Description Manual

2024

cademic Program Description Template

- University Name: Uruk Private University
- College / Faculty: College of Medical and Health Technologies – Department of Dental Prosthetic Techniques
- Academic Department: Department of Dental Prosthetic Techniques
- Academic or Professional Program Name: Technical Bachelor in Dental Prosthetics
- Final Degree Title: Bachelor in Dental Prosthetics
- Study System: Semester and Annual
- Date of Program Description Preparation: 10/10/2024
- Date of File Completion: 10/10/2024

Signature:
Deputy Dean Academic for Affairs:
Dr. Faiza Hazem Hassan
Date: 16/6/2025

Signature:
Name of Department Head: **Asst. Prof. Amer Husein Maki**
Date:

File Reviewed By:
Quality Assurance and University Performance Division
Director of the Quality Assurance and University Performance Division:
Dr. Hussein Arrak Majeed Azlubaidi
Date: 20-5-2025
Signature:

Approval of the Dean

1. Program Vision

The vision of the Department of Dental Prosthetic Techniques is to attain a distinguished position in the academic and scientific community, meeting the needs of the specialized medical technical field of dental prosthetics in society and the labor market. The department aspires to achieve international accreditation in dental prosthetic education while maintaining excellence in prosthetic techniques for the teeth, face, and jaws

2. Program Mission

The department aims to expand the understanding of emerging and advanced areas in dental prosthetic technology, in addition to strengthening professional relationships within the dental technician team. There is a growing demand in Iraq (and abroad) for skilled professionals in this field.

3. Program Objectives

The primary goal of the Bachelor's Degree in Dental Prosthetic Techniques is to establish the practical skills and theoretical knowledge necessary for building a successful professional career for dental technicians, enabling them to fabricate dental prostheses with a high level of precision. This goal is achieved through the following:

1. Preparing and graduating skilled and competent technical medical personnel with high levels of professionalism to serve the community.
2. Equipping graduates with advanced laboratory skills that enable them to fabricate complete and partial dentures, crowns, bridges, and orthodontic appliances with high craftsmanship.
3. Performing dental prosthetic, orthodontic, and maxillofacial prosthetic work in healthcare institutions to meet community needs.
4. Contributing to the academic and scientific community by incorporating the latest global technological advancements in the field of dental prosthetic techniques.
5. Providing direct medical services to patients through the college's specialized dental clinics.
6. Building communication channels and enhancing academic cooperation with corresponding departments in peer colleges.

1. Program Description

Year / Level	Course Code	Course Name	Credit Hours	
First Year			Theortical	Practical
First Year	DMA20101	Basic Dental Materials	2	5
First Year	DET20101	Basic Dental Appliance Techniques	2	5
First Year	DAN20101	Basic Dental Anatomy	2	5
First Year	PRS20101	Occupational Safety	2	0
First Year	ENL20101	English Language	3	0
First Year	HRD20101	Human Rights and Democracy	2	0
First Year	COM20101	Computer Fundamentals 1	1	2
First Year	CPB20102	Intermediate Dental Materials	2	5
First Year	DEN20102	Advanced Dental Appliance Techniques	2	5
First Year	DAI20102	Advanced Dental Anatomy	2	5
First Year	GPH20102	General Physics	2	4
First Year	ARB20102	Arabic Language	2	0
First Year	COP20102	Computer Fundamentals 2	1	2
Second Year	DEM20201	Advanced Dental Materials	2	5
Second Year	COD20201	Advanced Crowns	2	5
Second Year	CRO20201	Basic Complete Dentures	2	5
Second Year	ORH20201	Oral Histology	2	3
Second Year	CHE20201	Basic Chemistry	2	4
Second Year	CRB20201	Crimes of the Ba'ath Party Regime	2	0
Second Year	PAD20202	Basic Partial Dentures	2	5
Second Year	CRO20202	Advanced Crowns	2	5
Second Year	ORA20202	Oral Physiology	2	4
Second Year	AHN20202	Head and Neck Anatomy	2	4
Second Year	CHE20202	Advanced Chemistry	2	4
Second Year	ARL20202	Arabic Language	2	0
Third Year	PAD20300	Partial Denture II	2	4
Third Year	CDE20300	Complete Denture II	2	4
Third Year	CRB20300	Crowns and Bridges II	2	3
Third Year	OTH20300	Orthodontics I	2	4

Third Year	**MAP20300**	**Maxillofacial Prosthetics I**	**2**	**3**
Third Year	**MES20300**	**Medical Sciences**	**1**	**2**
Third Year	**REM20300**	**Research Methods**	**2**	**0**
Third Year	**CAP20300**	**Computer Applications**	**1**	**2**
Third Year	**ENG20300**	**English Language**	**2**	**0**
Third Year	**STR20300**	**Summer Training**		
Forth Year	**PAD20400**	**Partial Denture III**	**2**	**4**
Forth Year	**COD20400**	**Complete Denture III**	**2**	**4**
Forth Year	**CRB20400**	**Crowns and Bridges III**	**2**	**4**
Forth Year	**OTH20400**	**Orthodontics II**	**2**	**3**
Forth Year	**MAP20400**	**Maxillofacial Prosthetics II**	**2**	**3**
Forth Year	**DEI20400**	**Dental Implants**	**2**	**3**
Forth Year	**PRO20400**	**Graduation Project**	**2**	**0**
Forth Year	**ENG20400**	**English Language**	**2**	**0**
Forth Year	**EPR20400**	**Professional Ethics**	**2**	**0**
Forth Year	**PRE20400**	**Professional Conduct**	**2**	**0**

4. Expected Learning Outcomes of the Program Knowledge

Providing students with comprehensive scientific knowledge in the field of dental prosthetics at a high-quality level that meets the demands of modern times.

1. The ability to apply the scientific knowledge acquired by students in the field of dental prosthetics and related sciences, ensuring cognitive integration and benefiting from contemporary advancements.
2. Preparing highly competent professionals specialized in dental prosthetics to actively contribute to establishing a knowledge-based society and achieving national development goals through an optimal academic environment that fosters knowledge acquisition, research skills, innovation, and development.
3. Achieving interaction with practical realities in both public and private institutions by applying the necessary techniques, skills, seminars, and modern technologies required for practicing the dental prosthetics profession.

Skills

1. Gaining, understanding, and enriching the student's knowledge of laboratory work methods.
2. Guiding the student toward scientific approaches in solving all scientific problems.
3. Understanding the goals and fundamentals of the dental prosthetics profession.
4. Teaching the student the art and methods of laboratory work.
5. Enabling students to acquire skills in using virtual classrooms.
6. Training students to develop the ability, competence, and skill to engage in interactive lectures.

Values

General and Transferable Skills (other skills related to employability and personal development).

The student should benefit from their learning and reflect it in their personal and professional development.

The student should be able to apply the knowledge acquired during the study period.

The student should utilize theoretical knowledge in practicing and mastering the profession of dental prosthetic technician, based on the fundamental concepts of teaching dental prosthetic techniques.

Skills in modern communication, documentation, and interaction technologies.

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5. Teaching and Learning Strategies

1. Field visits to laboratories.
2. Practical application in laboratories and specialized centers.
3. Utilizing graduation research projects.
4. Presenting and delivering educational content in virtual classrooms using multimedia tools (videos, images, recorded lectures, texts).

6. Assessment Methods

1. Preparing a seminar research project (graduation research).
2. Relying on a grading system as the basis for evaluation.
3. Using traditional testing methods.
4. Adopting discussions and dialogues between students and the instructor as an evaluation tool.
5. Creating test assignments in virtual classrooms.
6. Using electronic exams via Google Forms.

google forms

1. Admission Criteria

Applicants seeking admission to the departments of the College of Medical and Health Technologies at Uruk Private University must meet the following conditions:

1. Be a graduate of the scientific branch of secondary school *exclusively*, or
2. Be among the top ten graduates from technical institutes.

Scientific branch exclusively or among the top ten graduates from technical institutes.

1. Main Sources of Information About the Program

The teaching staff at the college, lecturers' presentations, the college library, the electronic library, curriculum textbooks, supplementary books, the official website, and the internet.

1. Program Development Plan
The development and establishment of specialized scientific laboratories to provide students with exposure to the latest modern technologies.

Program Skills Map

/Year Level	Course Code	Corse Name	Core or optional	Program Learning Outcomes								
				Knowledge				Skills				Values
				1A	2A	3A	4A	1B	2B	3B	4B	1J
	DMA20101	Basic Dental Materials	Core	/	/	/	/	/	/	/	/	
	DET20101	Basic Dental Appliance Techniques	Core	/	/	/	/	/	/	/	/	
	DAN20101	Basic Dental Anatomy	Core	/	/	/	/	/	/	/	/	
	PRS20101	Occupational Safety	Core	/	/	/	/	/	/	/	/	
	ENL20101	English Language	Core	/	/	/	/	/	/	/	/	
	HRD20101	Human Rights and Democracy	Core	/	/	/	/	/	/	/	/	
	COM20101	Computer Fundamentals 1	Core	/	/	/	/	/	/	/	/	
	CPB20102	Intermediate Dental Materials	Core	/	/	/	/	/	/	/	/	
	DEN20102	Advanced Dental Appliance Techniques	Core	/	/	/	/	/	/	/	/	
	DAI20102	Advanced Dental Anatomy	Core	/	/	/	/	/	/	/	/	
	GPH20102	General Physics	Core	/	/	/	/	/	/	/	/	
	ARB20102	Arabic Language	Core	/	/	/	/	/	/	/	/	
	COP20102	Computer Fundamentals 2	Core	/	/	/	/	/	/	/	/	
The second stage	DEM20201	Advanced Dental Materials	Core	/	/	/	/	/	/	/	/	
	COD20201	Advanced Crowns	Core	/	/	/	/	/	/	/	/	
	CRO20201	Basic Complete Dentures	Core	/	/	/	/	/	/	/	/	
	ORH20201	Oral Histology	Core	/	/	/	/	/	/	/	/	
	CHE20201	Basic Chemistry	Core	/	/	/	/	/	/	/	/	
	CRB20201	Crimes of the Ba'ath Party Regime	Core	/	/	/	/	/	/	/	/	
	PAD20202	Basic Partial Dentures	Core	/	/	/	/	/	/	/	/	
	CRO20202	Advanced Crowns	Core	/	/	/	/	/	/	/	/	
	ORA20202	Oral Physiology	Core	/	/	/	/	/	/	/	/	

	AHN20202	Head and Neck Anatomy	Core	/	/	/	/	/	/	/	/
	CHE20202	Advanced Chemistry	Core	/	/	/	/	/	/	/	/
	ARL20202	Arabic Language	Core	/	/	/	/	/	/	/	/
The Third Stage	PAD20300	Partial Denture II	Core	/	/	/	/	/	/	/	/
	CDE20300	Complete Denture II	Core	/	/	/	/	/	/	/	/
	CRB20300	Crowns and Bridges II	Core	/	/	/	/	/	/	/	/
	OTH20300	Orthodontics I	Core	/	/	/	/	/	/	/	/
	MAP20300	Maxillofacial Prosthetics I	Core	/	/	/	/	/	/	/	/
	MES20300	Medical Sciences	Core	/	/	/	/	/	/	/	/
	REM20300	Research Methods	Core	/	/	/	/	/	/	/	/
	CAP20300	Computer Science / Informatics	Core	/	/	/	/	/	/	/	/
	ENG20300	English Language	Core	/	/	/	/	/	/		/
	STR20300	Summer Training	Core								
The Fourth Stage	PAD20400	Partial Denture III	Core	/	/	/	/	/	/	/	/
	COD20400	Complete Denture III	Core	/	/	/	/	/	/	/	/
	CRB20400	Crowns and Bridges III	Core	/	/	/	/	/	/	/	/
	OTH20400	Orthodontics II	Core	/	/	/	/		/	/	/
	MAP20400	Maxillofacial Prosthetics II	Core	/	/	/	/	/	/	/	/
	DEI20400	Dental Implants	Core	/	/	/	/	/	/	/	/
	PRO20400	Research Project	Core	/	/	/	/	/	/	/	/
	ENG20400	English Language	Core	/	/	/	/	/	/	/	/
	EPR20400	Professional Conduct	Core	/	/	/	/	/	/	/	/
	PRE20400	Professional Ethics	Core								

Required Textbooks:

Main Curriculum Textbooks (Latest Edition)

1. USAF Dental Laboratory Technology: Basic Sciences, Removable Prosthodontics, and Orthodontics
2. Removable Prosthodontics Techniques (Dental Laboratory Technology Manuals, Revised Edition) – *John B. Sowter*
3. Dental Implant Prosthetics (2nd Edition) – *Carl E. Misch*
4. Basics of Dental Technology: A Step-by-Step Approach (Wiley-Blackwell, 2nd Edition) – *Tony Johnson et al.*
5. Textbook of Oral Anatomy, Histology, Physiology and Tooth Morphology (2nd Edition) – *K. Rajkumar, R. Ramya*
6. Dental Material Science – *Rama Krishna Alla* (Jaypee Brothers Medical Publishers)
7. Textbook of Oral Pathology (2nd Edition) – *Anil Govindrao Ghom*

Course Description Template

1. Course Title: Dental Materials /	
2. Course Code: DEM20201	
3. Semester / Year: **[Not specified]**	
4. Date of Course Description Preparation: 2024/12/04	
5. Available Attendance Formats: **[To be specified – e.g., in-person, virtual, hybrid]**	
6. Total Study Hours / Total Units: 7 hours / 4 units	
7. Course Coordinator(s): Name: **Souad Hassan Ali** Email: **souadhassan@gmail.com**	
8. Course Objectives:	
	18. Course Objectives: 1. To develop the skill to identify the various types of materials used in dental prosthetics. 2. To enable students to recognize the properties and specifications of dental materials. 3. To train students in selecting the appropriate dental materials for dental

	restorations.

1. Teaching and Learning Strategies

Strategy	**1:** Scientific Lecture **2:** Presentation of Illustrative Images **3:** Presentation of Videos Demonstrating Scientific Procedures

1. Course Structure

Hours	Week	Intended Learning Outcomes	Unit or Topic Name	Teaching Method	Assessment Method |
1	7 Hours	Basics of materials science	Dental materials	Lecture &Lab	Examination
2	7 Hours	Requirements and evaluation of dental materials	Dental materials	Lecture &Lab	Examination
3	7 Hours	The structure of the solid materials and interatomic bonds	Dental materials	Lecture &Lab	Examination
4	7 Hours	The mechanical properties of the solid materials (Part I)	Dental materials	Lecture &Lab	Examination
5	7 Hours	The mechanical properties of the solid materials (Part II)	Dental materials	Lecture &Lab	Examination
6	7 Hours	The mechanical properties of the solid materials (Rheological properties)	Dental materials	Lecture &Lab	Examination
7	7 Hours	The physical properties of the solid materials (adhesion and cohesion)	Dental materials	Lecture &Lab	Examination
8	7 Hours	The physical properties of the solid materials (thermal properties)	Dental materials	Lecture &Lab	Examination
9	7 Hours	The physical properties of the solid materials (electrical properties)	Dental materials	Lecture &Lab	Examination
10	7 Hours	The physical properties of the solid materials (surface physico-chemistry)	Dental materials	Lecture &Lab	Examination
11	7 Hours	The physical properties of the solid materials (surface texture)	Dental materials	Lecture &Lab	Examination

12	7 Hours	The physical properties of the solid materials (optical properties)	Dental materials	Lecture &Lab	Examination
13	7 Hours	The biological properties of the solid materials (Biocompatibility)	Dental materials	Lecture &Lab	Examination
14	7 Hours	The biological properties of the solid materials (Biofilm formation and bioadhesion)	Dental materials	Lecture &Lab	Examination
15	7 Hours	The chemical properties of the solid materials	Dental materials	Lecture &Lab	Examination
16	7 Hours	Polymers in dentistry (Basic structure of polymer)	Dental materials	Lecture &Lab	Examination
17	7 Hours	Polymers in dentistry (polymerization and crosslinking reactions)	Dental materials	Lecture &Lab	Examination
18	7 Hours	Resins, artificial teeth materials	Dental materials	Lecture &Lab	Examination
19	7 Hours	Acrylic resin material (denture base materials)	Dental materials	Lecture &Lab	Examination
20	7 Hours	Classification and properties of dental acrylic resin materials	Dental materials	Lecture &Lab	Examination
21	7 Hours	Denture liner materials	Dental materials	Lecture &Lab	Examination
22	7 Hours	Wax (composition and properties)	Dental materials	Lecture &Lab	Examination
23	7 Hours	Dental wax (Thermal, physical, and chemical properties)	Dental materials	Lecture &Lab	Examination
24	7 Hours	Dental wax (types and uses)	Dental materials	Lecture &Lab	Examination
25	7 Hours	Gypsum products (chemistry and composition)	Dental materials	Lecture &Lab	Examination
26	7 Hours	Gypsum products (types and uses)	Dental materials	Lecture &Lab	Examination
27	7 Hours	Gypsum products (setting reaction and properties)	Dental materials	Lecture &Lab	Examination
28	7 Hours	Dental abrasives (definition and concept)	Dental materials	Lecture &Lab	Examination

29	7 Hours	Dental abrasives types	Dental materials	Lecture &Lab	Examination
30	7 Hours	Dental abrasives (procedure and a application	Dental materials	Lecture &Lab	Examination

1. Course Evaluation The grade is distributed out of 100 based on the tasks assigned to the student, such as daily preparation, daily exams, oral and monthly exams, written exams, reports, etc.	
2. Learning and Teaching Resources	
Required Textbooks (Prescribed curriculum, if available): *"Dental Materials"* by Dr. Salam Dawood Al-Qaisi *Dental Material: Properties and Manipulation* by R. Craig	
Main References (Sources): *Applied Dental Materials* by J.F. McCabe	Main References (Sources): *Applied Dental Materials* by J.F. McCabe
Recommended Supporting Books and References (Scientific journals, reports, etc.): British Dental Journal	Recommended Supporting Books and References (Scientific journals, reports, etc.): *British Dental Journal*
Electronic References and Internet Sites: *Google Scholar*	Electronic References and Internet Sites: *Google Scholar*
1. Course Evaluation The grade is distributed out of 100 based on the tasks assigned to the student, such as daily preparation, daily exams, oral and monthly exams, written exams, reports, etc.	1. Course Evaluation The grade is distributed out of 100 based on the tasks assigned to the student, such as daily preparation, daily exams, oral and monthly exams, written exams, reports, etc.

Course Description Template

1. Course Title
Orthodontics (Basics) /
2. Course Code
ORT20301
3. Semester / Academic Year
First and Second Semesters – Third Year / 2024–2025
4. Date of Course Description Preparation
2024/12/20
5. Available Attendance Formats
[To be specified – e.g., in-person, online, or hybrid]
6. Total Study Hours / Total Units
6 Hours / 4 Units

7. Course Coordinator(s)

Name: Souad Hassan Ali
Email: souadhassan@gmail.com

8. Course Objectives

1. To familiarize the student with the materials used in the fabrication of orthodontic appliances and how to handle them.
2. To enable dental technology students to fabricate orthodontic appliances.

3. Teaching and Learning Strategies

1. Scientific lectures
2. Presentation of illustrative images
3. Presentation of videos demonstrating scientific procedures

1. Course Structure

Hours	Week	Intended Learning Outcomes	Unit or Topic Name	Teaching Method	Assessment Method |
1	6Hours	Six keys to normal occlusion	Orthodontics (Basics)	Lecture &Lab	Examination
2	6Hours	Adams clasp construction	Orthodontics (Basics)	Lecture &Lab	Examination
3	6Hours	Hawley labial arch, Robert retractor, and Fitted labial arch	Orthodontics (Basics)	Lecture &Lab	Examination
4	6Hours	Buccal canine retractor and modification	Orthodontics (Basics)	Lecture &Lab	Examination
5	6Hours	Finger spring and Modified finger spring	Orthodontics (Basics)	Lecture &Lab	Examination
6	6Hours	Z- Spring and Recurved Z-spring	Orthodontics (Basics)	Lecture &Lab	Examination
7	6Hours	Myofunctional appliance construction	Orthodontics (Basics)	Lecture &Lab	Examination
8	6Hours	Anchorage and fixed orthodontic appliance	Orthodontics (Basics)	Lecture &Lab	Examination
9	6Hours	Introduction and mall occlusion	Orthodontics (Basics)	Lecture &Lab	Examination

10	6Hours	Orthodontic wires properties and removable orthodontic appliance	Orthodontics (Basics)	Lecture &Lab	Examination
11	6Hours	Soldering & welding	Orthodontics (Basics)	Lecture &Lab	Examination
12	6Hours	Open bite, Deep bite, and Space maintainers \in orthodontics	Orthodontics (Basics)	Lecture &Lab	Examination
13	6Hours	Crossbite in orthodontics	Orthodontics (Basics)	Lecture &Lab	Examination
14	6Hours	Bad habits and Habit breaker	Orthodontics (Basics)	Lecture &Lab	Examination
15	6Hours	Bite plane and Retainers	Orthodontics (Basics)	Lecture &Lab	Examination
16	6Hours	Six keys to normal occlusion	Orthodontics (Basics)	Lecture &Lab	Examination
17	6Hours	Adams clasp construction	Orthodontics (Basics)	Lecture &Lab	Examination
18	6Hours	Hawley labial arch, Robert retractor, and Fitted labial arch	Orthodontics (Basics)	Lecture &Lab	Examination
19	6Hours	Buccal canine retractor and modification	Orthodontics (Basics)	Lecture &Lab	Examination
20	6Hours	Finger spring and Modified finger spring	Orthodontics (Basics)	Lecture &Lab	Examination
21	6Hours	Z- Spring and Recurved Z-spring	Orthodontics (Basics)	Lecture &Lab	Examination
22	6Hours	Myofunctional appliance construction	Orthodontics (Basics)	Lecture &Lab	Examination
23	6Hours	Anchorage and fixed orthodontic appliance	Orthodontics (Basics)	Lecture &Lab	Examination
24	6Hours	Introduction and mall occlusion	Orthodontics (Basics)	Lecture &Lab	Examination
25	6Hours	Orthodontic wires properties and removable orthodontic appliance	Orthodontics (Basics)	Lecture &Lab	Examination
26	6Hours	Soldering & welding	Orthodontics (Basics)	Lecture &Lab	Examination
27	6Hours	Open bite, Deep bite, and Space maintainers \in orthodontics	Orthodontics (Basics)	Lecture &Lab	Examination

28	6Hours	Crossbite in orthodontics	Orthodontics (Basics)	Lecture &Lab	Examination
29	6Hours	Bad habits and Habit breaker	Orthodontics (Basics)	Lecture &Lab	Examination
30	6Hours	Bite plane and Retainers	Orthodontics (Basics)	Lecture &Lab	Examination

1. Course Evaluation

Grade Distribution

The grade is distributed out of 100 based on the tasks assigned to the student, such as daily preparation, daily exams, oral exams, monthly and written exams, reports, etc.

3. Learning and Teaching Resources

Required Textbooks (Prescribed curriculum, if available):

1. Walters Orthodontic Notes, 3rd Edition, revised by W.J.B. Houston, 1975

Main References (Sources):

2. *An Atlas of Removable Orthodontic Appliances* by G.C. Dichson and A.E. Wheatly, 2nd Edition

Recommended Supporting Books and References (Scientific journals, reports, etc.):

British Dental Journal

Electronic References and Internet Sites:

Google Scholar

Course Description Template

1. Course Title: Dental Material
2. Course Code DMA20101
3. Semester / Academic Year First and Second Semester / 2024–2025
4. Date of Description Preparation 2024/12/04
5. Available Attendance Modes [Not specified – please provide this information if needed]
6. Total Study Hours / Total Units 7 hours / 4 units

7. Course Coordinator Name (If more than one, list all)
Name: Souad Hassan Ali
Email: souadhassan@gmail.com

8. Course Objectives

To acquire the skills necessary to identify the various types of materials used in dentistry.

1. To develop the ability to recognize the specifications and properties of dental materials.
2. To select appropriate dental materials for prosthodontic applications.

2. Teaching and Learning Strategies

1. Scientific lectures
2. Presentation of illustrative images
3. Presentation of videos demonstrating scientific

1. Scientific lectures

10.Course Structure

Week	Hours	Intended Learning Outcomes	Unit or Topic Name	Teaching Method	Assessment Method |
1	7 Hours	Basics of materials science	Dental materials	Lecture &Lab	Examination
2	7 Hours	Requirements and evaluation of dental materials	Dental materials	Lecture &Lab	Examination
3	7 Hours	The structure of the solid materials and interatomic bonds	Dental materials	Lecture &Lab	Examination
4	7 Hours	The mechanical properties of the solid materials (Part I)	Dental materials	Lecture &Lab	Examination
5	7 Hours	The mechanical properties of the solid materials (Part II)	Dental materials	Lecture &Lab	Examination
6	7 Hours	The mechanical properties of the solid materials (Rheological properties)	Dental materials	Lecture &Lab	Examination

7	7 Hours	The physical properties of the solid materials (adhesion and cohesion)	Dental materials	Lecture &Lab	Examination
8	7 Hours	The physical properties of the solid materials (thermal properties)	Dental materials	Lecture &Lab	Examination
9	7 Hours	The physical properties of the solid materials (electrical properties)	Dental materials	Lecture &Lab	Examination
10	7 Hours	The physical properties of the solid materials (surface physico-chemistry)	Dental materials	Lecture &Lab	Examination
11	7 Hours	The physical properties of the solid materials (surface texture)	Dental materials	Lecture &Lab	Examination
12	7 Hours	The physical properties of the solid materials (optical properties)	Dental materials	Lecture &Lab	Examination
13	7 Hours	The biological properties of the solid materials (Biocompatibility)	Dental materials	Lecture &Lab	Examination
14	7 Hours	The biological properties of the solid materials (Biofilm formation and bioadhesion)	Dental materials	Lecture &Lab	Examination
15	7 Hours	The chemical properties of the solid materials	Dental materials	Lecture &Lab	Examination
16	7 Hours	Polymers in dentistry (Basic structure of polymer)	Dental materials	Lecture &Lab	Examination
17	7 Hours	Polymers in dentistry (polymerization and crosslinking reactions)	Dental materials	Lecture &Lab	Examination
18	7 Hours	Resins, artificial teeth materials	Dental materials	Lecture &Lab	Examination
19	7 Hours	Acrylic resin material (denture base materials)	Dental materials	Lecture &Lab	Examination
20	7 Hours	Classification and properties of dental acrylic resin materials	Dental materials	Lecture &Lab	Examination
21	7 Hours	Denture liner materials	Dental materials	Lecture &Lab	Examination
22	7 Hours	Wax (composition and properties)	Dental materials	Lecture &Lab	Examination

23	7 Hours	Dental wax (Thermal, physical, and chemical properties)	Dental materials	Lecture &Lab	Examination
24	7 Hours	Dental wax (types and uses)	Dental materials	Lecture &Lab	Examination
25	7 Hours	Gypsum products (chemistry and composition)	Dental materials	Lecture &Lab	Examination
26	7 Hours	Gypsum products (types and uses)	Dental materials	Lecture &Lab	Examination
27	7 Hours	Gypsum products (setting reaction and properties)	Dental materials	Lecture &Lab	Examination
28	7 Hours	Dental abrasives (definition and concept)	Dental materials	Lecture &Lab	Examination
29	7 Hours	Dental abrasives types	Dental materials	Lecture &Lab	Examination
30	7 Hours	Dental abrasives (procedure and application)	Dental materials	Lecture &Lab	Examination

1.Course Evalution
The grade is distributed out of 100 based on the tasks assigned to the student, such as daily preparation, daily exams, oral exams, monthly and written exams, reports, etc.

4. Learning and Teaching Resources	
Required Textbooks (Prescribed Curriculum, if available)	• *Dental Materials* by Dr. Salam Dawood Al-Qaisi
Main References (Sources)	• *Dental Materials: Properties and Manipulation* by R. Craig
Recommended Supporting Books and References (Scientific Journals, Reports, etc.)	• *Applied Dental Materials* by J.F. McCabe
Electronic References and Internet Sites	• *British Dental Journal*

Course Description Template

urse Title:
ntal Materials (Advanced)
urse Code:
M20201

mester / Academic Year:
st Semester / 2024−2025
Date of Description Preparation:
24/12/18
5. Available Attendance Modes:
6. Total Contact Hours / Total Credit Units:
ours / 4 credit units
10. Course Coordinator Name (If more than one, list all) Name: *Souad Hassan Ali* Email: *souadhassan@gmail.com*
11. Course Objectives

Main course objectives	1 To introduce the student to the basic dental materials used in dental technology. 2 To understand the principles of dental material science, the terminology used in this field, and how to properly handle these materials
10. Teaching and Learning Strategies	
Strategy	1. Scientific lectures 2. Presentation of illustrative images 3. Presentation of videos demonstrating scientific procedures

10.Course Structure

Hours	Week	Intended Learning Outcomes	Unit or Topic Name	Teaching Method	Assessment Method |
1	7 Hours	Impression materials, definition, requirements	Dental materials	Lecture &Lab	Examination
2	7 Hours	Classification of impression material, non-elastic impression material	Dental materials	Lecture &Lab	Examination
3	7 Hours	Hydrocolloids impression materials	Dental materials	Lecture &Lab	Examination

4	7 Hours	Elastomeric impression material	Dental materials	Lecture &Lab	Examination
5	7 Hours	Investment materials, definition and requirements	Dental materials	Lecture &Lab	Examination
6	7 Hours	Classification of investment materials	Dental materials	Lecture &Lab	Examination
7	7 Hours	Dental casting alloy	Dental materials	Lecture &Lab	Examination
8	7 Hours	High noble and noble alloy, Classification	Dental materials	Lecture &Lab	Examination
9	7 Hours	Base metal alloys, types	Dental materials	Lecture &Lab	Examination
10	7 Hours	Titanium alloys	Dental materials	Lecture &Lab	Examination
11	7 Hours	Wrought alloy, uses, manipulation	Dental materials	Lecture &Lab	Examination
12	7 Hours	Wrought Nickel-Titanium Alloy	Dental materials	Lecture &Lab	Examination
13	7 Hours	Wrought stainless steel Alloy	Dental materials	Lecture &Lab	Examination
14	7 Hours	Wrought beta titanium alloy	Dental materials	Lecture &Lab	Examination
15	7 Hours	Soldering and welding and brazing	Dental materials	Lecture &Lab	Examination

3. Course Evalution

Distribution of the 100 Marks Based on the Tasks Assigned to the Student, such as:
Daily preparation, Daily exams, Oral exams. Monthly and written exams.

Daily preparation

Required Textbooks (Prescribed Curriculum, if available)	Dental Materials" by Dr. Salam Dawood Al-Qaisi2- Dental material properties and manibulation(R.Craig)
Main References (Sources)	Applied dental materials (J.F.McCabe)
Recommended Supporting Books and References (Scientific Journals, Reports, etc.)	The British Dental Journal
Electronic References and Internet Sites	Google scholar

Course Description template

1. Course Title Partial Denture (Basic)
2. Course Code PAD20202
3. Semester / Academic Year Second Semester / 2024–2025
4. Date of Description Preparation 18-03-2025
5. Available Attendance Modes In-person
6. Total Study Hours / Total Units
7 hours / 4 units
7. Course Coordinator Name (If more than one, list all) Name: *Asst. Prof. Amer Hussein Maki* Email: *amermaki2000@yahoo.com*
8. Course Objectives

Main course objective	introduce the student to the basic steps involved in the fabrication of the acrylic partial denture.

13. Teaching and Learning Strategies

Strategy	

13. Course Structure

Hours	Week	Intended Learning Outcomes	Unit or Topic Name	Teaching Method	Assessment Method |
1 2 3 4 5 6 7 8 9 10 11 12 13			Removable partial denture (terms and components) Kennedy classification Acrylic removable partial denture Surveying procedure Articulator Clasp assembly Selection of teeth Setting of teeth Waxing Flasking Curing , finishing Selective grinding Repair of RPD Flexible RPD	Theoritical & Practical	**Examinationns and Laboratory**

14 15					

1. Course Assessment
Course Assessment The total grade (100 marks) is distributed based on the tasks assigned to the student, such as: Daily preparation, Daily quizzes, Oral exams, Monthly and written exams, Reports, etc. **Midterm Grade: 40 marks** 25 marks for theoretical work, 15 marks for practical work **Final Exam: 60 marks** 35 marks for theoretical work, 25 marks for practical work

4. Learning and Teaching Resources	
Required Textbooks (Prescribed Curriculum, if available)	
Main References (Sources)	"Books for the different partial curricula
Recommended Supporting Books and References (Scientific Journals, Reports, etc.)	
Electronic References and Internet Sites	Educational Videos

Course Description Template

Course Title •
Partial Set
Course Code
PAD20400
2025 -2024S emester / Academic Year
Fourth Stage (Year 4)
2025 -3 -194. Date of Course Description Preparation
5. Available Attendance Modes

In person
6. Total Contact Hours / Total Credit Units
Toal number hours 8 (practical 4) (Theoretical 2) Hours 6
Course Coordinator(s)
Name: Asst. Lecturer Amer Hussein Maki **Email:** amermaki2000@yahoo.com
8. Course Objectives

Course Objectives	The objectives of this course are to: Familiarize students with the materials used in the manufacturing of partial sets and how to handle them.....

8. Teaching and Learning Strategies

Strategy	

Course Structure •

Hours	Week	Intended Learning Outcomes	Unit or Topic Name	Teaching Method	Assessment Method |
First Second Third Fourth Fifth Sixth Seventh			partially edentulous arch major connector minor connector rest seat direct retainer indirect retainer denture base stress breaker	Theoritical & Practical	**Examination and Laboratory**

Eighth Ninth Tenth Eleventh Twelfth Thirteenth			impression material wax pattern spruing investing burn out , casting setting teeth relining		

9. Course Assessment
The distribution of the 100 marks based on the tasks assigned to the student, such as daily preparation, daily exams, oral exams, monthly exams, written exams, reports, etc. First Term: 20 marks (12 theoretical, 8 practical) Second Term: 20 marks (12 theoretical, 8 practical) Final Exam: 60 marks (25 practical, 35 theoretical), including reports and quizzes

14. Learning and Teaching Resources11	
Required Textbooks (Prescribed Curriculum, if available)	
Main References (Sources)	
Recommended Supporting Books and References (Scientific Journals, Reports, etc.)	
Electronic References and Internet Sites	

Course Description

Course Title
Computer Fundamental
Course Code
COM20202

Semester/Year
Second Semester / Second Stage / 2024–2025
Date of Course Description Preparation
21/3/2025
Attendance Mode
Total Study Hours / Total Credit Units
Total Study Hours / Total Credit Units
30 Practical / 15 Theoretical
Course Coordinator(s)
Name: Asst. Lecturer Na'ma Hussein Hameed **Email:** aa23329@gmail.com

Course Objective	
Course Objective	• Using computers to perform basic tasks • Identifying and discussing hardware components in a computer system • Introduction to computer networks and their basic components • Understanding common computer system issues and how to solve them • Introduction to artificial intelligence, its applications, and uses

Teaching and Learning Strategies	
Strategy	• Theoretical instruction of the curriculum through presenting the material to students with active student participation. • Practical instruction using the computer. • Engaging students in applying the material practically on the computer. • Conducting implicit (informal) assessments during the lecture. • Administering a test in the lecture following the explanation to reinforce the material and evaluate its effectiveness among students.

Course Structure

Hours	Week	Intended Learning	Unit or Topic Name	Teaching Method	Assessment Method |

		Outcomes			
1	3	What is a network?	Security and Networks	Theory and Practical Lecture	Discussion and Examination
2	3	Types of networks, basic components	Security and Networks E-Commerce	Theory and Practical Lecture	Discussion and Examination
3	3	of a network	Computer Troubleshooting and Repair	Theory Lecture	
4	3	Fundamentals of network security,	Computer Troubleshooting and Repair	Theory and Practical Lecture	Discussion and Examination
5	3	understanding network threats	Introduction to Artificial Intelligence	Theory and Practical Lecture	Discussion and Examination
6	3	Concepts of electronic banking services	Introduction to Artificial Intelligence The Role of Artificial Intelligence in Modern Smartphones	Theory Lecture	Discussion and Examination
7	3	Identifying and solving common hardware and software	The Role of Artificial Intelligence in Modern Smartphones	Theory and Practical Lecture	Discussion and Examination
8	3	problems faced by computer users	Applications and Tools of Artificial Intelligence	Theory and Practical Lecture	
9	3	Basic tools and techniques for diagnosing and resolving	Applications and Tools of Artificial Intelligence Applications and Tools of Artificial Intelligence	Theory Lecture	Discussion and Examination
10	3	issues	Artificial Intelligence and Society	Theory and Practical Lecture	Discussion and Examination
11	3	Definition of artificial intelligence, history of AI, AI techniques and	Ethical Challenges in Artificial Intelligence The Future of Artificial Intelligence	Theory Lecture	Discussion and Examination
12	3	approaches			
	3	Key characteristics of AI, benefits of AI,			Discussion and Examination

13		challenges and ethical considerations			Discussion and Examination
14ر	3	AI-powered mobile technologies, virtual assistants			Discussion and Examination
15	3	(Siri, Google Assistant, Alexa)			Discussion and Examination
		Adaptive learning, instant translation services			Discussion and Examination
		Overview of AI applications in various industries, including education and healthcare			Discussion and Examination
		Use of AI in transportation, marketing, and advertising			
		Use of AI in business, robotics, and automation technologies			
		How AI affects society, AI and international relations, AI and the future of humanity			
		AI ethics, privacy and			

		surveillance, impact of AI on the job market Future trends in AI, recent research and emerging technologies			

Course Assessment
Course Assessment The total grade (100 marks) is distributed based on the tasks assigned to the student, such as: Daily preparation, Daily quizzes, Oral exams, Monthly and written exams, Reports, ...etc.

Learning and Teaching Resources	
Required Textbooks (Prescribed Curriculum, if available): *(To be specified by the instructor or department)*	Graham Brown, David Watson, "Cambridge IGCSE Information and Communication Technology ،" Third Edition.(2020) Alan Evans, Kendall Martin, Mary Anne Poatsy, "Technology In Action Complete ،" Sixteenth Edition.(2020) ر Ahmed Banafa, "Introduction to Artificial Intelligence (AIFirst Edition.(2024) Microsoft Office 2019 Step by Step| Curtis Frye & Joan Lambert. First Edition ال Khidr Ali Al-Khadr, *Computer Fundamentals*, 2016. Al-Khadr, K. A. (2016). *Computer Fundamentals*
Recommended Supporting Books and References	
(Including scientific journals, reports, etc.)	

Total Hours: 30 hours total / 2 hours per week / 2 credit units

9. Course Coordinator(s)

\|**Name:** Asst. Lecturer Nawras Salman Abdullateef
nawras. s. abdullateef@uruk.edu.iq :

10.Course Objectives	
Course Objectives	Introduce the student to the principles of the Arabic language. Familiarize the student with the rules of Arabic grammar and syntax. Develop cognitive and behavioral skills within the context of the Arabic language. Demonstrate the living human dimension of this language in comparison with contemporary world languages. Enable students to understand well what they read and write

9. Teaching and Learning Strategies	
Strategy	Strategy: Delivering lectures, using explanation and clarification methods combined with discussion and dialogue, conducting quick quizzes

Course •

Hours	Week	Intended Learning Outcomes	Unit or Topic Name	Teaching Method	Assessment Method |
1 2 3 4 6 7 8 9 10 11 12 13 14 15	One hour One hour One hour One hour One hour One hour One hour One hour One hour One hour One hour One hour One hour One hour		Quranic Expression: Grammatical and Rhetorical Poet Badr Shakir Al-Sayyab Original and Derivative Case Markers Nominal Sentence (Subject and Predicate "Inna" and its Sisters The Difference Between "Inna" and "Anna" "Kana" and its	Delivering a Lecture Delivering a Lecture Delivering a Lecture Delivering a Lecture Delivering a Lecture Delivering a Lecture Delivering a Lecture Delivering a Lecture Delivering a Lecture Delivering a Lecture Delivering a Lecture	Questions and Answers Questions and Answers Questions and Answers Questions and Answers Questions and Answers Questions and Answers Questions and Answers Questions and Answers Questions and Answers Questions and Answers Questions and Answers Questions and

			Sisters The Five Verbs Linguistic Mistakes Synonyms and Antonyms Dual Form and its Case Marking Sound Masculine Plural Sound Feminine Plural	Delivering a Lecture Delivering a Lecture Delivering a Lecture Delivering a Lecture	Answers Questions an Answers Questions and Answers Questions an Answers Questions and Answers

10. Course Assessment

The distribution of the 100 marks based on the tasks assigned to the student, such as daily preparation, daily exams, oral exams, monthly exams, written exams, reports, etc

10. Learning and Teaching Resources

Required Textbooks (Prescribed Curriculum, if available)	
Main References (Sources)	Ibn Aqil's Commentary on Ibn Malik's Alfiyyah The Book of Important Spelling Rules in Arabic by Dr. ·es Abd al-Salam

Course Description Template

Course Name: Professional Behavior	
Course Code: PRE20400	
Academic Term / Year: Annual System / Fourth Year / 2024–2025	
Date of Course Description Preparation: March 21, 2025	
Available Attendance Format: In-person Lectures	
Total Study Hours / Total Units: 2 Theoretical Hours / 2 Units	
Course Coordinator (if more than one, list all): Name: Asst. Lecturer Lena Iyad Asaad E*mail: lenaayad@uruk.edu.iq*	
Course Objective	
Course Objective	1. To introduce the student to the importance of professional behavior in the field of Dental Technology. 2. To enable Dental Technology students to effectively interact with patients.
Teaching and Learning Strategies:	
Strategy	1. Teaching the theoretical curriculum by presenting the material to students

	while encouraging active student participation. 2. Conducting **implicit (formative)** assessments during the lecture. 3. Implementing a **follow-up test** in the lecture after the material is explained to reinforce and solidify the content, and to assess the effectiveness of the material for the students.

Course Structure

Hours	Week	Intended Learning Outcomes	Unit or Topic Name	Teaching Method	Assessment Method |
الاول	First		Personality and Its Importance in Dealing with the Patient		Discussion and Examination
2	second		External Appearance and Its Importance for Those Working in the Medical Field		Discussion and Examination
3	Third		Personal Hygiene		Discussion and Examination
4	Fourth		Selection of Those Who Work in the Medical Field		Discussion and Examination
5	Fifth		Professional Behavior		Discussion and Examination
6	Sixth		Habits and Values		
7	Seventh		Types of Values		Discussion and Examination
8	Eighth		The Importance of Personal Values in the Workplace		
9	Ninth		Human Habits in the Medical Profession		Discussion and Examination
10	Tenth		General Traits of Those Working in the Medical Field		Discussion and Examination
11	Eleventh				
12	Twelfth		Values That Should Be Instilled in Medical Workers		
13	Thirteenth		Health Education		Discussion and Examination
14	Fourteenth		Duties of the Health Education Team		Discussion and Examination
15					
16			Methods and Approaches of Health Education		Discussion and Examination

17	Fifteenth		Methods of Promoting Health Education		
18			Professional Compatibility		Discussion and Examination
19	Sixteenth		Interaction Among Members of the Medical Team		
20	Seventeenth		Dealing with the Patient and How to Gain Their Trust		Discussion and Examination
21	Eighteenth		Mental Health		
22			Psychological Preparation of the Patient		Discussion and Examination
23	Nineteenth		Types of Personalities		
24	Twenty		Etiquette in Caring for a Sick Child		
25	Twenty-one		Etiquette in Caring for Disfigured Patients		
26	Twenty-Two		Responding to Patient Complaints		
27			Dealing with Pain		
28	Twenty-three		How to Treat a Child During Pain?		
	Twenty fourth		Handling Medical Materials\		
			How to Handle		
			Laboratory Medical Devices		
			Law in Medical Matters\		
			Legal and Disciplinary Provisions Related to Professional Ethics		

Course Assessment

"Grade distribution out of 100 based on the tasks assigned to the student, such as daily preparation, daily quizzes, oral and monthly exams, written exams, reports, etc

Teaching and Learning Strategies:	
Required Textbooks (Prescribed Curriculum, if available)	
Main References (Sources)	Professional Ethics Book
Required Textbooks (Prescribed Curriculum, if available)	
Main References (Sources)	

Course Description Template

urse Title
Dental equipment technologies (Advanced)
Course Code
DEN20102
Semester / Academic Year:
First Stage, Second Semester / 2024–2025
Date of Course Description Preparation:
2024/12/20
Available Attendance Formats:
Total Study Hours / Total Units:
7 hours / 4 units
Course Coordinator(s):
Name: Shahrazad Fouad Karkosh Email: shahrazad.almunjm@mtu.edu.iq
Course Goals:

Course Goals:	
To introduce the student to dental equipment and technologies, their components, functionality, and maintenance. .1 **To enable the student to use, maintain, and service dental equipment.** .2 .	

Teaching and Learning Strategies:	
Strategy	**Teaching and Learning Strategies:** **Scientific lectures** **Presentation of illustrative images** **Presentation of videos demonstrating procedural steps**

Course Structure

Hours	Week	Intended Learning Outcomes	Unit or Topic Name	Teaching Method	Assessment Method |
1	7 Hours	Agar-ager melting machine and Flask cooling unit	Dental equipment	Lecture &Lab	Examination
2	7Hours	Burn-out Furnace and casting ring	Dental equipment	Lecture &Lab	Examination
3	7Hours	Conventional Centrifuge casting machine.	Dental equipment	Lecture &Lab	Examination
4	7Hours	Electric and Induction Centrifuge casting machine.	Dental equipment	Lecture &Lab	Examination
5	7Hours	Ultrasonic cleaning machine, and Mechanical mixer (vacuum)	Dental equipment	Lecture &Lab	Examination
6	7Hours	Sand blast machine	Dental equipment	Lecture &Lab	Examination
7	7Hours	Dental Ceramic Furnace	Dental equipment	Lecture &Lab	Examination
8	7Hours	Soldering and welding	Dental equipment	Lecture &Lab	Examination
9	7Hours	Dental Biostar	Dental equipment	Lecture &Lab	Examination
10	7Hours	Dental-Arch Trimmer	Dental equipment	Lecture &Lab	Examination
11	7Hours	Dental Pindex machine	Dental equipment	Lecture &Lab	Examination
12	7Hours	Electronic spatula for wax modelling	Dental equipment	Lecture &Lab	Examination
13	7Hours	Induction wax modelling and Dipping wax unit	Dental equipment	Lecture &Lab	Examination
14	7Hours	General measurement instruments and Hopper duplicator	Dental equipment	Lecture &Lab	Examination
15	7Hours	CAD-CAM production methods	Dental equipment	Lecture &Lab	Examination

Course Assessment

Grade distribution out of 100 based on the tasks assigned to the student, such as daily preparation, daily quizzes, oral and monthly exams, written exams, reports, etc

4. Learning and Teaching Resources

Required Textbooks (Prescribed Curriculum,	Books on Dental Equipment and

if available)	Laboratories Author: Faez Fouad Dawood
Main References (Sources)	Dental instruments 7th Edition .Linda Bartolomucci Boyd CAD RDA BA. Basic guid to dentalinstruments.SCHELLER Carmen .2006. Dental instruments packet.Dr. Randll Taylor. university of California, SanDiego pre-DentalSociety. https:\\t.me\dentistrypdff
Recommended Supporting Books and References (Scientific Journals, Reports, etc.)	British Dental Journal
Electronic References and Internet Sites	Google scholar

Course Title
Dental equipment technologies (Basics)
Course Code
DET20101
Semester / Academic Year:
First Stage, Second Semester / 2024–2025
2024/12/20
Available Attendance Formats:
Total Study Hours / Total Units:
7 hours / 4 units
Course Coordinator(s):
Name: Shahrazad Fouad Karkosh Email: shahrazad.almunjm@mtu.edu.iq
Course Objectives:

Course Objectives	
To introduce the student to dental equipment and technologies, including their components, functions, and maintenance. To enable the student to use, maintain, and service dental equipment.	

Teaching and Learning Strategies	
Strategy:	☐ Scientific lectures ☐ Presentation of illustrative images ☐ Presentation of videos showing procedural steps

Course Assessment

.Hrs.	Week	Intended Learning Outcomes	Unit or Topic Name	Teaching Method	Assessment Method |
1	Hours 7	Introduction. Dental laboratories, The work in the lab, The principle of the ideal lab	Dental equipment	Lecture &Lab	Examination
2	Hours 7	Hand instruments uses in the Dental laboratories	Dental equipment (Basic)	Lecture &Lab	Examination
3	Hours 7	Dental Impression Trays	Dental equipment	Lecture &Lab	Examination
4	Hours 7	The burner uses in Prosthodontic Dentistry	Dental equipment	Lecture &Lab	Examination
5	Hours 7	Dental Pliers	Dental equipment	Lecture &Lab	Examination
6	Hours 7	Articulators, Face Bow and Die – lock tray	Dental equipment	Lecture &Lab	Examination
7	Hours 7	Dental Surveyors	Dental equipment	Lecture &Lab	Examination
8	Hours 7	Dental Packing & Duplication tools, and Dental Press	Dental equipment	Lecture &Lab	Examination
9	Hours 7	Dental Trimmer and Vibrator	Dental equipment	Lecture &Lab	Examination
10	Hours 7	Wax extraction unit	Dental equipment	Lecture &Lab	Examination
11	Hours 7	Polymerization devices (Water Bath devices, hydraulic flask and microwave oven)	Dental equipment	Lecture &Lab	Examination
12	Hours 7	Curing Light device and Injector flexible machine	Dental equipment	Lecture &Lab	Examination
13	Hours 7	Dental Brush, Burs and Disc	Dental equipment	Lecture &Lab	Examination
14	Hours 7	Laboratory Engines and Handpiece	Dental equipment	Lecture &Lab	Examination
15	Hours 7	Dental lathe polishing machine	Dental equipment	Lecture &Lab	Examination

Course Assessment
Grade distribution out of 100 based on the tasks assigned to the student, such as daily preparation, daily quizzes, oral and monthly exams, written exams, reports, etc

4. Learning and Teaching Resources	
Required Textbooks (Prescribed Curriculum, if available)	Books on Dental Equipment and Laboratories. Author: Faez Fouad Dawood.
Main References (Sources)	Dental instruments 7th Edition. Linda Bartolomucci Boyd CAD RDA BA. Basic guide to dental instruments. SCHELLER Carmen .2006. Dental instruments packet. Dr. Randll Taylor. university of California, San Diego pre- Dental Society. https:\\t.me\dentistry
Recommended Supporting Books and References (Scientific Journals, Reports, etc.)	British Dental Journal
Electronic References and Internet Site	Google scholar

Course Title: Crown (Basic)Crown (basic)

Course Code:
CRO20201
Semester / Academic Year:
First Semester, Second Stage / 2024–2025
Date of Course Description Preparation: 2024/12/20
2024/12/20
Available Attendance Formats:
Total Study Hours / Total Units:
7 hours / 4 units
Course Coordinator(s):
Name: Shahrazad Fouad Karkosh Email: shahrazad.almunjm@mtu.edu.iq
Course Objectives:

Course Objectives: • General Objective: To familiarize the student with the basic steps involved in the fabrication	

of fixed metal and ceramic crowns. • Specific Objective: To enable the Dental Technology student to fabricate fixed metal and ceramic crowns.	

Teaching and Learning Strategies:

Strategy	Scientific lecture Presentation of illustrative images Presentation of videos demonstrating scientific procedures

Course Structure

Hours	Week	Intended Learning Outcomes	Unit or Topic Name	Teaching Method	Assessment Method |
1	7Hours	Types of crowns	Crowns	Lecture &Lab	Examination
2	7Hours	Terms used in crown	Crowns	Lecture &Lab	Examination
3	7Hours	Finishing line, types, and indications	Crowns	Lecture &Lab	Examination
4	7Hours	Esthetic and biological considerations of tooth preparation	Crowns	Lecture &Lab	Examination
5	7Hours	Mechanical consideration of tooth preparation	Crowns	Lecture &Lab	Examination
6	7Hours	Disinfection of impression and cast and pouring technique	Crowns	Lecture &Lab	Examination
7	7Hours	Working cast and die: materials used for making working cast and die	Crowns	Lecture &Lab	Examination
8	7Hours	Working cast and die: types and techniques used for fabricating	Crowns	Lecture &Lab	Examination
9	7Hours	Cutting of the die and methods of exposing the finishing line	Crowns	Lecture &Lab	Examination
10	7Hours	Fundamental of occlusion	Crowns	Lecture &Lab	Examination

11	**7Hours**	**Mandibular movements: functional and parafunctional movements**	**Crowns**	Lecture &Lab	Examination
12	**7Hours**	**Articulators and face bow**	**Crowns**	Lecture &Lab	Examination
13	**7Hours**	**Bite registration and mounting**	**Crowns**	Lecture &Lab	Examination
14	**7Hours**	**Waxing procedure**	**Crowns**	Lecture &Lab	Examination
15	**7Hours**	**Waxing instruments, die spacer and luting agent**	**Crowns**	Lecture &Lab	Examination

Course Evaluation:

The grade is distributed out of 100 based on the tasks assigned to the student, such as daily preparation, quizzes, oral exams, monthly written exams, reports, etc.

4. Learning and Teaching Resources

quired Textbooks (Prescribed Curriculum, if ailable)	Contemporary fixed prosthodontics
ain References (Sources)	ADA Academic dental association Infodentis, the patients guide to dental health 2020
Recommended Supporting Books and References (Scientific Journals, Reports, etc.)	British Dental Journal
ectronic References and Internet Sites	Google scholar

Course Description Template

Course Title: Bridges (Advanced)
Course Code:
BRJ20302
Semester / Academic Year:
Third Stage, Second Semester / 2024–2025
Date of Course Description Preparation: 2024/12/20
2024/12/20

Available Attendance Formats:
Total Study Hours / Total Units
7 hours / 4 units
Course Coordinator(s):
Name: Shahrazad Fouad Karkosh Email: shahrazad.almunjm@mtu.edu.iq
Course Objectives:

General Objective: To familiarize the student with the materials used in the fabrication of crowns and bridges and how to work with them. **Specific Objective:** To enable the Dental Technology student to fabricate fixed crowns and bridges.	

Teaching and Learning Strategies:	
Strategy	Scientific lecture Presentation of illustrative images Presentation of videos demonstrating scientific procedures

55.Course Structure

Hours	Week	Intended Learning Outcomes	Unit or Topic Name	Teaching Method	Assessment Method |
1	7Hours	Laboratory failure of the bridge	Bridges (Advanced)	Lecture &Lab	Examination
2	7Hours	Soldering and welding	Bridges (Advanced)	Lecture &Lab	Examination
3	7Hours	Types of ceramic according to composition and temperature	Bridges (Advanced)	Lecture &Lab	Examination
4	7Hours	Step-by-step procedure of porcelain build-up (1)	Bridges (Advanced)	Lecture &Lab	Examination
5	7Hours	Step-by-step procedure of porcelain build-up (2)	Bridges (Advanced)	Lecture &Lab	Examination
6	7Hours	Step-by-step procedure of porcelain build-up (3)	Bridges (Advanced)	Lecture &Lab	Examination
7	7Hours	All ceramic restoration: types	Bridges (Advanced)	Lecture &Lab	Examination
8	7Hours	All ceramic restoration techniques	Bridges (Advanced)	Lecture &Lab	Examination

9	7Hours	Retainer for a removable partial denture: types and indications	Bridges (Advanced)	Lecture &Lab	Examination
10	7Hours	Retainer for a removable partial denture: technique	Bridges (Advanced)	Lecture &Lab	Examination
11	7Hours	Resin bonded bridge: types	Bridges (Advanced)	Lecture &Lab	Examination
12	7Hours	Resin bonded bridge: procedure of fabrication	Bridges (Advanced)	Lecture &Lab	Examination
13	7Hours	Implant-supported fixed prosthesis: types	Bridges (Advanced)	Lecture &Lab	Examination
14	7Hours	Implant-supported fixed prosthesis: procedure	Bridges (Advanced)	Lecture &Lab	Examination
15	7Hours	Clinical Failure in bridge	Bridges (Advanced)	Lecture &Lab	Examination

Course Evaluation:

The grade is distributed out of 100 based on the tasks assigned to the student, such as daily preparation, quizzes, oral exams, monthly written exams, reports, etc.

4. Learning and Teaching Resources

Required Textbooks (Prescribed Curriculum, if available)	Contemporary fixed prosthodontics
Main References (Sources)	ADA Academic dental association Infodemic, the patients guide to dental health 2020
Recommended Supporting Books and References (Scientific Journals, Reports, etc.)	**British Dental** Journal
Electronic References and Internet Sites	Google scholar

Course Description Template

Course Title
Bridges (Basics)
Course Code:
BRJ20301
Semester / Academic Year:
Third Stage, First Semester / 2024–2025
Date of Course Description Preparation:

2024/12/20

Available Attendance Formats

Total Study Hours / Total Units:

7 hours / 4 units

Course Coordinator(s):

Name: Shahrazad Fouad Karkosh
Email: shahrazad.almunjm@mtu.edu.iq

Course Objective

General Objective:

To familiarize the student with the materials used in the fabrication of crowns and bridges, and how to handle them.

Specific Objective:

To enable the Dental Technology students to fabricate fixed crowns and bridges.

Teaching and Learning Strategies

Strategy	Scientific lectures Presentation of illustrative images Presentation of videos showing procedural steps

Course Structure

Hours	Week	Intended Learning Outcomes	Unit or Topic Name	Teaching Method	Assessment Method
1	6Hours	Fixed partial dentures design, types & indications	(Basics)	Lecture &Lab	Examination
2	6Hours	Pontic design	(Basics)	Lecture &Lab	Examination
3	6Hours	Connectors for a fixed partial denture	(Basics)	Lecture &Lab	Examination
4	6Hours	A framework design for metal ceramic restoration	(Basics)	Lecture &Lab	Examination
5	6Hours	Methods of waxing framework (coping)	(Basics)	Lecture &Lab	Examination
6	6Hours	The procedure of waxing framework (coping)	(Basics)	Lecture &Lab	Examination
7	6Hours	Sprunig procedure, investing	(Basics)	Lecture &Lab	Examination

8	6Hours	Alloys and metal selection for metal ceramic restoration	(Basics)	Lecture &Lab	Examination
9	6Hours	Casting ring and liner, Burn out and casting	(Basics)	Lecture &Lab	Examination
10	6Hours	Types of ceramic, classifications, indications	(Basics)	Lecture &Lab	Examination
11	6Hours	Preparation of metal copy for metal ceramic restoration (anterior)	(Basics)	Lecture &Lab	Examination
12	6Hours	Preparation of metal copy for metal ceramic restoration (posterior)	Orthodontics (Basics)	Lecture &Lab	Examination
13	6Hours	Bonding of ceramic to metal	Orthodontics (Basics)	Lecture &Lab	Examination
14	6Hours	Provisional restoration: introduction, types	Orthodontics (Basics)	Lecture &Lab	Examination
15	6Hours	Provisional restoration: materials and techniques	Orthodontics (Basics)	Lecture &Lab	Examination

Course Evaluation:

The grade is distributed out of 100 based on the tasks assigned to the student, such as daily preparation, quizzes, oral exams, monthly written exams, reports, etc.

4. Learning and Teaching Resources

Required Textbooks (Prescribed Curriculum, if available)	Contemporary fixed prosthodontics
Main References (Sources)	ADA Academic dental association Infodentis, the patients guide to dental health 2020
Recommended Supporting Books and References (Scientific Journals, Reports, etc.)	British Dental Journal
Electronic References and Internet Sites	Google scholar

Course Description Template

Course Title
Crowns and Bridges (Basics)
Course Code
CRB20400
Semester / Academic Year:
Fourth Stage, First Semester / 2024–2025
Date of Course Description Preparation

2024/12/20
Available Attendance Formats:
Total Study Hours / Total Units:
6 hours / 4 units
Course Coordinator's Name (If more than one, list all):
Name: Shahrazad Fouad Karkosh Email: shahrazad.almunjm@mtu.edu.iq
Course Objectives

General Objective: To introduce the student to the materials used in the fabrication of crowns and bridges, and how to handle them. Specific Objective: To enable the student of the Dental Technology Department to fabricate fixed crowns and bridges.	

Teaching and Learning Strategies

ategy	Scientific lectures Presentation of illustrative images Presentation of videos showing procedural steps

Course Structure

Course Description Template

Oral histology

Course Structure
ORH20201
Semester/Year: Third Year / First Semester
Date of Course Description Preparation
2025
Available Attendance Formats:
In Person
(Total Study Hours / Total Units:
Weekly hours 5
Course Coordinator's Name (If more than one, list all):
Name: Shahrazad Fouad Karkosh Email: shahrazad.almunjm@mtu.edu.iq
Course Objectives

4. Learning and Teaching Resources	
Strategy	

Course Structure

Hours	Week	Intended Learning Outcomes	Unit or Topic Name	Teaching Method	Assessment Method |
15	5				

Course Assessment

Grade Distribution out of 100 Based on the tasks assigned to the student, such as: daily preparation, daily exams, oral exams, monthly exams, written exams, reports, etc.	
4. Learning and Teaching Resources	
Required Textbooks (Prescribed Curriculur if available)	
Main References (Sources)	
Recommended Supporting Books and References (Scientific Journals, Reports, etc.)	
Electronic References and Internet Sites	

Course Description Template

Course Title: Head and Neck Anatomy	
Course Code:	
AHN20202	
Semester / Year:	
Second Year, Second Semester	
Date of Course Description Preparation	
2025/3/24	
Available Attendance Mode:	
Total Credit Hours / Units:	
Name of Course Coordinator (if more than one, list all):	
Name: Jenna Zuhair Email: jennadentistj@gmail.com	
Course Objectives:	
Course Objectives	To provide detailed knowledge of the anatomy of the head and neck, including the mouth, face, and jaws, in a way that supports the field of

	prosthodontics

Teaching and Learning Strategies	
Strategy	

Coruse Structure

Hours	Week	Intended Learning Outcomes	Unit or Topic Name	Teaching Method	Assessment Method |
15	6				

Course Assessment

Grade distribution out of 100 based on the tasks assigned to the student, such as daily preparation, daily exams, oral exams, monthly written exams, reports, etc

4. Learning and Teaching Resources

quired Textbooks (Prescribed Curriculum, availab	
Main References (Sourc	
Recommended Supporting Books and References (Scientific Journals, Reports, etc.)	
Electronic References and Internet Si	

Course Description Template

urse Title
abic Language
urse Code
B20102
mester / Academic Year
cond Semester – Academic Year 2024/2025
te of Course Description Preparation
25 / 3 /20
Available Attendance Formats:

In the class
Total Study Hours / Total Units
Units 2 / Weekly 2 / Total Hours 30
Course Coordinator's Name (If more than one, list all):
Name: Asst. Lecturer Nawras Salman Abdul-Lateef Email: nawras.s.abdullateef@uruk.edu.iq
Course Objectives:

Course Objectives:	• Introduce students to the fundamentals of the Arabic language • Familiarize students with Arabic grammar and syntax • Develop cognitive and behavioral skills within the framework of the Arabic language • Highlight the vibrant humanistic dimension of the Arabic language among contemporary world languages • Enable students to understand well what they read and write

Teaching and Learning Strategies	
Strategy	Lecturing, using explanation and clarification methods, along with discussion and dialogue, and quick quizzes

Course Structure

Hours	Week	Intended Learning Outcomes	Unit or Topic Name	Teaching Method	Assessment Method |
1	One hour		Qur'anic Expression: Grammar and Rhetoric	Delivering a lecture	Questions and Answers
2	One hour		The Poet Badr Shakir al-Sayyab	Delivering a lecture	Questions and Answers
3	One hour		Primary and Secondary Case Endings	Delivering a lecture	Questions and Answers
4	One hour		The Nominal Sentence (Subject and Predicate)	Delivering a lecture	Questions and Answers
6	One hour		"Inna" and Its Sisters	Delivering a lecture	Questions and Answers
7	One hour		The Difference Between "Inna" and "Anna"	Delivering a lecture	Questions and Answers
8	One hour		"Kana" and Its Sisters	Delivering a lecture	Questions and Answers
9	One hour			Delivering a lecture	Questions and Answers
10	One hour			Delivering a	

11 12 13 14 15	One hour One hour One hour One hour One hour		□ The Five Verbs □ Linguistic Errors □ Synonyms and Antonyms □ The Dual Form and Its Grammatical Cases □ Sound Masculine Plural □ Sound Feminine Plural	lecture Delivering a lecture Delivering a lecture Delivering a lecture Delivering a lecture	Questions and Answers Questions and Answers Questions and Answers Questions and Answers Questions and Answers

Course Assessment •
Grade distribution (out of 100) is based on the tasks assigned to the student, such as daily preparation, daily exams, oral exams, monthly exams, written exams, reports, etc.
Teaching and Learning Resources •

Prescribed Textbooks (if available): **(Main curriculum textbooks, if any)**	
Main References (Sources):	*Sharh Ibn Aqil on Alfiya Ibn Malik* *The Most Important Rules of Arabic elling* by Dr. Fares Abdul-Salam

Human Rights Date Of course Description Prepar**ation**

Course Title
Human Rights and Democracy
Course Code
HRD20101
Semster/Year
First Semester2025−2024
Date of Course Description Preparation
2025/3/24
Available Attendance Formats:
Lecture Hall and Class attendance in person
Total Study Hours / Total Units: 7 hours / 4 units
Units 2 / hours 2

Course Coordinator(s):

Name: Assistant Lecturer Nawras Salman Abdul-Lateef
Email: nawras.s.abdullateef@uruk.edu.iq

Course Objectives

Course Learning Objectives:	**Course Learning Objectives:** • To introduce students to human rights and help them understand their importance, scope, components, and relevance in today's world • To shed light on the historical development of various human rights and link them to the modern context • To develop students' awareness and understanding of the fundamental principles of human rights • To enhance students' capacity to engage with contemporary human rights issues
Teaching and Learning Strategies	
Strategy:	**Delivering in-person lectures using modern technological tools** **Encouraging classroom collaboration, participation, and expression of ideas** **Promoting interactive learning through discussion and dialogue** **Utilizing case studies, desk research, and review of up-to-date online resources related to the course content**

Course Structure

Week	Hours	Intended Learning Outcomes	Unit or Topic Name	Teaching Method	Assessment Method |
1	2	Chapter One: The Conceptual Framework of Human Rights	Chapter One: The Conceptual Framework of Human Rights	Theoretical lecture, discussions, and case studies	Direct questions and oral exams
2	2	Chapter One: Causes of Human Rights Violations	Chapter One: Causes of Human Rights Violations	Theoretical lecture, discussions, case studies, and dialogue	Direct questions and oral exams
3	2	Chapter Two: Human Rights in the Civilization of Mesopotamia	Chapter Two: Human Rights in the Civilization of Mesopotamia	Theoretical lecture, discussions, case studies, and dialogue	Direct questions, oral exams, and discussions
4	2	Chapter Three: Rights in International and National Charters	Chapter Three: Rights in International and National Charters	Theoretical lecture, discussions, case studies, and dialogue	Direct questions and oral exams
5	2	Chapter Three: Human Rights in National Charters	Chapter Three: Human Rights in National Charters	Theoretical lecture, discussions, case studies, and dialogue	Direct questions and oral exams

6	2	Chapter Four: Mechanisms for the Protection of Human Rights	Chapter Four: Mechanisms for the Protection of Human Rights	Theoretical lecture, discussions, case studies, and dialogue	Direct questions and oral exams
7	2	Monthly Exam			
8	2	Chapter Four: The Principle of Separation of Powers	Chapter Four: The Principle of Separation of Powers	Theoretical lecture, discussions, case studies, and dialogue	Direct questions and oral exams
9	2	Chapter Five: Generations of Human Rights	Chapter Five: Generations of Human Rights	Theoretical lecture, discussions, case studies, and dialogue	Direct questions and oral exams
10	2	Chapter Six: The Internet and Human Rights	Chapter Six: The Internet and Human Rights	Theoretical lecture, discussions, case studies, and dialogue	Direct questions and oral exams
11	2	Chapter Six: Refugees and Human Rights	Chapter Six: Refugees and Human Rights	Theoretical lecture, discussions, case studies, and dialogue	Direct questions and oral exams
12	2	Chapter Seven: Fundamental Rights and	Chapter Seven: Fundamental Rights and Duties of Citizenship	Lecture and group discussions	Direct Questions

		Duties of Citizenship			
13	**2**	**Chapter Seven: Corruption and Methods of Combating It**	**Chapter Seven: Corruption and Methods of Combating It**	**Lecture and group discussions**	**Discussions and Questions**
14	**2**	**Chapter Seven: The Concept of Corruption**	**Chapter Seven: The Concept of Corruption**	**Lecture, discussions, case studies, and dialogue**	**Direct Observation**
15	**2**	**Chapter Seven: Elections**	**Chapter Seven: Elections**		

Course Assessment	
Grade distribution out of 100 based on the tasks assigned to the student, such as daily preparation, daily, oral, monthly, and written exams, reports, etc.: Daily preparation = 5 marks, Daily and oral exams = 5 marks, Monthly exams = 10 marks (average of two exams), The student's coursework score totals 30 marks,	
4. Learning and Teaching Resources	
Required Textbooks (Prescribed Curriculum, if available)	Book: Democracy and Human Rights (2023
Main References (Sources)	Book: Democracy and Human Rights (2023)
Recommended Supporting Books and References (Scientific Journals, Reports, etc.)	Research papers, journals, and information technology resources via the internet *(According to the nature of the assigned topics)*
Electronic References and Internet Sites	All relevant content related to risk management and insurance from internet sources

Course Description Template

Course Title
Research Methods
Course Code
REM20302
Semester/Year
2024–2025
Date of Course Description Preparation
17–3–2025
Available Attendance Formats:
In Person
Total Study Hours / Total Units:
Weekly 11/2
Course Coordinator(s):
Course Coordinator(s): **Name:** Fatima Salah Ghanim **Email:** fatisga64@gmail.com
Course Objectives

Course Learning Objective:	**To teach students the fundamentals of scientific research**

Teaching and Learning Strategies	
Strategy:	Active learning based on the effective participation of students in the educational process through interactive activities

Course Structure

Hours	Week	Intended Learning Outcomes	Unit or Topic Name	Teaching Method	Assessment Method |
1 2 3	1.5 1.5 1.5	The student learns the fundamentals	Principles of research Scientific methods	Interactive in-person attendance	Daily and midterm exams, along

4 5 6 7 8 9 10 11 12 13 14 15	1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5	of research, its components, and how to write scientific papers and theses.	Design the research plan The research process Classification of research Fundamental research Applied research Clinical trial Research problem formation Research proposal writing Pilot study Introduction Literature review Material and methods Results ,discussion and conclusion	using presentation slides for theoretical lectures.	with daily evaluation of student activity and participation.
Course Assessment					
30 mid-exam , 70 final					
4. Learning and Teaching Resources					
Required Textbooks (Prescribed Curriculum, if available)					
Main References (Sources)					
Recommended Supporting Books and References (Scientific Journals, Reports, etc.)					
Electronic References and Internet Sites					

Course Title
Arabic Langiage
Course Code
ARL20202
Semester / Academic Year:
Second Semester – Academic Year 2024/2025
Date of Course Description Preparation
(2025−2024) Academic Year /25
Available Attendance Formats:
Lecture Hall (in Person)
Total Study Hours / Total Units: •
Weekly 2 Total hours 30
Course Coordinator's Name (If more than one, list all): •
Name: **Asst. Lecturer Nawras Salman Abdul-Lateef** Email: **nawras.s.abdullateef@uruk.edu.iq**
Course Objectives

Course Objectives	Proper pronunciation and correct writing free from spelling and stylistic errors Familiarization with Arabic literary heritage

Teaching and Learning Strategies

Strategy	Teaching and Learning Methods: • Lectures • Discussions • Asking questions Assessment Methods: • Dialogue and discussions • Quick quizzes

Course Assessment

Week	Hours	Intended	Unit or Topic Name	Teaching	Assessment Method

		Learning Outcomes		Method	
1	2	Qur'anic Text	Qur'anic Texts	Theoretical lectures, scussions, and case studies	Written and oral exams and discussions
2	2	unctuation Marks	Punctuation Marks	Theoretical lectures, scussions, and case studies	Written and oral exams and discussions
3	2	Numbers and Counted Nouns (Number and Enumerated)	• Writing Numbers	Theoretical lectures, scussions, and case studies	Written and oral exams and discussions
4	2	Dictation (Spelling)	Writing the Hamzah (ء), and Ḍād (ظ), Ẓā' (ظ)	Theoretical lectures, scussions, and case studies	Written and oral exams and discussions
5	2	Types of Alif and Ta'	Writing the Extended Alif (ا) the Short Alif (ا), the Tied Tā' (ة) and the Hā' (ه)	Theoretical lectures, scussions, and case studies	Written and oral exams and discussions
6	2	Syntax (Parsing / I'rab)	Words Inflected by Diacritical Marks (Harakāt)	Theoretical lectures, scussions, and case studies	Written and oral exams and discussions
7		Subject and Predicate (Mubtada' and Khabar)			
8	2	Monthly Exam	**Kana" and its Sisters** **The Six Particles:** *Inna (إنّ), Anna (أنّ), Ka'anna (كأنّ), Layta (ليت), La'alla (لعلّ), Lakinna (لكنّ)*	Theoretical lectures, scussions, and case studies	

9	2	Defective Verbs (Nāqiṣ Verbs)	**Syntax and Grammatical Structure (Construction and Inflection)** **Syntax and Grammatical Structure (Construction and Inflection)**	Theoretical lectures, cussions, and case studies	Written and oral exams and discussions
10	2	Particles esembling erbs (e.g., nna and its Sisters)	**Kana" and its Sisters** **The Six Particles:** *), أنّ), Anna (إنّInna ( ), Layta كأنّKa'anna ( ), La'alla (لعلّ), Lakinna (لكنّ*	Theoretical lectures, cussions, and case studies	Written and oral exams and discussions
11	2	onstruction of the Past ense Verb and the mperative Verb	Syntax and Grammatical Structure (Construction and Inflection) Syntax and Grammatical Structure (Construction and Inflection)	Theoretical lectures, iscussions, and case studies	Written and oral exams and discussions
12	2	onstruction the Present ense Verb	Amr ibn Kulthum – As a Model	Theoretical lectures, iscussions, and case studies	
13	2	Pre-Islamic Text	**Abu al-Ala' al-Ma'arri – As a Model**	Theoretical lectures, iscussions, and case studies	**Written and oral exams and discussions Written and oral exams and discussions**
14	2	Abbasid Text	**Al-Yabab – As a Model**	Theoretical lectures, iscussions, and case studies	**Written and oral exams and discussions Written and oral exams and discussions**

15	2	**Review of Previous Chapters and Second Monthly Exam**			
ntinuous Assessment					
Grade distribution out of 100 based on the tasks assigned to the student, such as daily preparation, oral exams, monthly or written exams, reports, etc.					
4. Learning and Teaching Resources					
Required Textbooks (Prescribed Curriculum, if available)	Course Title: Arabic Language – Basic Skills				
Main References (Sources)	**Instructor:** Dr. Ahmed Hussein Jarallah				
Recommended Supporting Books and References (Scientific Journals, Reports, etc.)					
Electronic References and Internet Sites	References and Learning Resources				

Course Description Template

Course Title
Oral Bacteria
Course Code
ORA20302
Semester/Year
2024−2025
Date of Course Description Preparation •
17−3−2025
Available Attendance Formats: •
In Person
Total Study Hours / Total Units: •
Weekly 11/2
Course Coordinator(s):
Name: Fatima Salah Ghanim

Email: fatisga64@gmail.com

Course Objectives

Course Learning Objective:	To familiarize students with the nature and components of bacteria that cause oral diseases, and to train them in the preparation and examination of microscopic slides

Teaching and Learning Strategies

Strategy:	Active learning that involves students effectively in the educational process through interactive activities

Course Structure

Hours	Week	Intended Learning Outcomes	Unit or Topic Name	Teaching Method	Assessment Method |
First Second Third Fourth Fifth Sixth Seventh Eighth Ninth Tenth Eleventh Twelfth Thirteenth Fourteenth Fifteenth	One and a half hours One and a half hours One and a half hours One and a half hours One and a half hours One and a half hours One	1.Understanding the types of beneficial and harmful oral bacteria 2. Recognizing the effects of bacteria on teeth and gums, such as decay and inflammation 3. Learning preventive methods such as tooth brushing and flossing 4.Understanding	Oral bacteriology The cellular structure of bacteria Dent Bacterial classification Bacterial growth phases and curve Grams stain steps and procedures Basic requirements of Bacteria Oral microbiology and oral environments Dental plaque, definition, clinical feature, developments	Interactive in-person attendance using presentation slides for theoretical lectures	Daily and midterm exams with daily evaluation of student participation and activity

	and a half hours One and a half hours One and a half hours One and a half hours One and a half hours One and a half hours One and a half hours One and a half hours One and a half hours One and a half hours	the importance of oral hygiene in reducing bacterial growth 5.Identifying the impact of diet on bacterial growth in the mouth	Oral streptococci, types ,morphology ,characteristics ,selective media Mutans streptococci, types, morphology, characteristics, selective media The role of Bacteria in dental caries(cariogenic bacteria) The role of streptococcus in the development of dental caries The role of bacteria in periodontal disease Gingivitis Periodontal pockets and periodontal abscess		
Course Assessment					
40 mid-exam and daily quiz ,60 final					
4. Learning and Teaching Resources •					
Required Textbooks (Prescribed Curriculum,					

if available)	
Main References (Sources)	Oral microbiology and Immunology
Recommended Supporting Books and References (Scientific Journals, Reports, etc.)	
Electronic References and Internet Sites	PubMed

Course Description Template

Course Title	
Oral Diseases	
Ourse Code	
ORP20301	
Semester/Year	
2024–2025	
Date of Course Description Preparation	
17–3–2025	
Available Attendance Formats:	
In Person	
Total Study Hours / Total Units:	
11/2 weekly	
Course Coordinator(s):	
Name: Fatima Salah Ghanim **Email:** fatisga64@gmail.com	
Course Objectives	
Course Learning Objectives	To introduce students to oral and dental diseases To train students in the preparation and examination of histological slides using a microscope
Teaching and Learning Strategies	
Teaching and Learning Strategies	
Strategy:	Active learning that engages students in the educational process through interactive activities and participation

Course Structure

Hours	Week	Intended Learning Outcomes	Unit or Topic Name	Teaching Method	Assessment Method |
الأول الثاني الثالث الرابع الخامس السادس السابع الثامن التاسع العاشر احد عشر اثنا عشر ثلاثة عشر أربعة عش خمسة عش	1.5 hours 1.5 hours 1.5 hours 1.5 hours 1.5 hours 1.5 hours 1.5 hours 1.5 hours 1.5 hours 1.5 hours 1.5 hours 1.5 hours 1.5 hours 1.5 hours 1.5 hours	Study of diseases affecting th mouth and t tissues surrounding t teeth, such a the gums an bones. The learnin outcomes o this course a to teach students how identify and understand these disease as well as ho to manage them.	Oral pathology Microscopy and slide preparation Biopsy, definition, types, technique Dental caries, definition, classification, clinical feature, radiological feature Pulp disease, acute pulpitis Pulp disease, dental granuloma Periapical pathology & changes Cyst of the Jaw .White lesions Ulceration oral lesions Developmental disturbance of oral mucosa Developmental disturbance of the tongue Developmental disturbance of teeth Bone disease Salivary gland disease	Interactive in-person attendance using presentation slides for theoretical lectures.	Daily and midterm exams, along with daily evaluation of student participation and activity

11. Course Assessment

40 mid-exam , 60 final

11. Learning and Teaching Resources

Required Textbooks (Prescribed Curriculum, if available)	

Main References (Sources)	Oral Pathology: Clinical Pathologic Correlations" - (7th Edition) by Brad W. Neville, Douglas D. Damm, Carl M. Allen, and Jerry E. Bouquot Color Atlas of Oral Pathology" by S. S. " • J. Pindborg
Recommended Supporting Books and References (Scientific Journals, Reports, etc.)	
Electronic References and Internet Sites	UPtodate

Course Description Template

Course Title
Dental Anatomy / First Year
Course Code
DAN20101
Semester/Year
2025 − 2024
Date of Course Description Preparation
2025 −4 −13
Available Attendance Formats:
In person
Total Study Hours / Total Units:
Units 10 (Practical 6) (Theoretical) Hours 8
Course Coordinator(s):
Name: Assistant Lecturer Hanan Qasim **Email:** Hanan313hn@gmail.com

Course Objectives	
Course Learning Objectives: **To familiarize students with scientific dental terminology** **To provide knowledge related to the anatomical aspects of teeth** **To train students in tooth drawing and carving for use in their technical field**	....

Teaching and Learning Strategies"

Strategy	

Course Structure

Hours	Week	Intended Learning Outcomes	Unit or Topic Name	Teaching Method	Assessment Method |
1-2 3-4 5-6 7-8 8-10 11-12 13-14 15-17 18-20 21-22 23-24 25-26 27-28 29-30	2 2		anatomy of tooth structure efinition and terms hysiology of teeth function pper anterior teeth ateral and canine premolar teeth molar teeth lower ant teeth ateral and canine premolars lower molar occlusion revision		

Course Assessment
Grade distribution out of 100 based on the tasks assigned to the student, such as daily preparation, daily exams, oral exams, monthly written exams, reports, etc.: **40 marks** (15 practical, 25 theoretical) — **60 marks** (25 practical, 35 theoretical)

4. Learning and Teaching Resources •	
quired Textbooks (Prescribed Curriculum, if available)	
Main References (Sources)	
Recommended Supporting Books and References (Scientific Journals, Reports, etc.)	
Electronic References and Internet Sites	Educational Videos

Course Description Template

Course Title:
Stage four/ Complete Denture
Course Code:
COD20400
Level: Fourth Year
2025 – 2024
Date of Course Description Preparation
2025 −4−13
Available Attendance Formats:
Inperson
Total Study Hours / Total Units
Total Weekly Hours: 6 hours (2 theory, 4 practical)
Course Coordinator(s):
Name: Assistant Lecturer Hanan Qasim **Email:** hanan313h@gmail.com
Course Objectives

Course Learning Objectives:	..... •
To introduce students to the materials used	..... •

in complete denture fabrication and how to work with them	..... •

Teaching and Learning Strategies

Strategy:	enable students in the Dental Technology Department to ɔricate a complete denture through practical and theoretical training.

Course Structure

Hours	Week	Intended Learning Outcomes	Unit or Topic Name	Teaching Method	Assessment Method |
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	2		Anatomical land Mark of upper denture Anatomical land Mark lower denture Impression material Special tray, record base Maxilla mandibular relation Mounting Occlusion Mandibular movement Selection of teeth Arrangement of Teeth CL I Arrangement of teeth CL II Arrangement of Teeth CL III Waxing and carving Post dam Flsking and packing Finishing and polishing Retention and stability Relining and rebasing Repair	Theoretical	Examination & Practical

18 19 20 21 22 23 24- 25 26 - 27 28- 29 30			Material for Complete denture Single complete Against natural teeth Duplication of Complete denture Immediate denture Over denture Dental implant		

Course Assessment
Grade distribution out of 100 based on the tasks assigned to the student, such as daily preparation, daily exams, oral exams, monthly written exams, reports, etc.: 40 marks (15 practical, 25 theoretical) — 60 marks (25 practical, 35 theoretical)
Grade distribution out of 100 based on the tasks assigned to the student, such as daily preparation, daily exams, oral exams, monthly written exams, reports, etc.: **40 marks** (15 practical, 25 theoretical) — **60 marks** (25 practical, 35 theoretical)

4. Learning and Teaching Resources	
Required Textbooks (Prescribed Curriculum, if available)	
Main References (Sources)	
Recommended Supporting Books and References (Scientific Journals, Reports, etc.)	
Electronic References and Internet Sites	

Course Description Template

Course Title
First Stage /General Physic
Course Code
GPH20102
Semester/Year
2025 − 2024
Date of Course Description Preparation
2025 −4 −13
Available Attendance Formats:
In Person
Study Hours / Total Units:
8 8 hours (2 hours theory, 4 hours practical) **Total Units:** 4
Course Coordinator(s)
Name: Assistant Lecturer Ibrahim Abdulkarim **Email:** [Not provided

urse Objectives	
Course Learning Objectives: To introduce students to the general subject of physics To enable students to perform analytical scientific physical tests	

Teaching and Learning Strategies	
Strategy	

Course Structe

Hours	Week	Intended Learning Outcomes	Unit or Topic Name	Teaching Method	Assessment Method |
1 2 3 4 5 6	2 2		Review of general physics Atomes structure Ohms law Capacitor Electromotive force		

7 8 9 10 11 12 13 14 15			Mechanics of elastic Stress- stain curve Heat and latent heat Heat ans 1st law of thermodynamics Heat transfer by condition sound Work. power , energy Velocity , newtons law Gases pressure Force and momentum		

Course Assessment
Grade distribution out of 100 based on the tasks assigned to the student, such as daily preparation, daily exams, oral exams, monthly written exams, reports, etc.: 40 marks (15 practical, 25 theoretical) — 60 marks (25 practical, 35 theoretical)

4. Learning and Teaching Resources	
Required Textbooks (Prescribed Curriculum, if available)	
Main References (Sources)	
Recommended Supporting Books and References (Scientific Journals, Reports, etc.)	
Electronic References and Internet Sites	Educational Videos

Course Description Template

Course Title
Third Year/ Complete Denture
Course Code
COD20201
Semester/Year
2025 – 2024
Date of Course Description Preparation •
2025 –4 –13

Available Attendance Formats: •

In Person

Total Study Hours / Total Units:

Total Weekly Hours: 6 (2 hours theory, 4 hours practical)
Total Units: 8

Course Coordinator(s):

Name: Assistant Lecturer Hanan Qasim
Email: Hanan313hn@gmail.com

Course Objectives

Course Learning Objective: To introduce students to the materials used in the fabrication of complete dentures.	..... • ..... • ..... •

Teaching and Learning Strategies

Strategy	To enable the student to fabricate a complete denture through hands-on training and understanding

Course Structure

Hours	Week	Intended Learning Outcomes	Unit or Topic Name	Teaching Method	Assessment Method |
1 2 3 4 5 6 7 8 9	2		Retention, stability and support Eccentric occlusion and Lingulized occlusion Arrangement of maxillary and mandibular teeth in Cl. II &CNeutral zone Selective grinding Repair of	Theoretical	Practical

10 11 12 13 14 15			complete denture Relining of complete denture Rebasing of complete denture Duplication of complete denture Immediate complete denture: part 1 Immediate complete Denture: part 2 Overdenture Single complete denture opposing natural or artificial teeth Digital system for complete denture proce		

Course Assessment
Grade distribution out of 100 based on the tasks assigned to the student, such as daily preparation, daily exams, oral exams, monthly written exams, reports, etc.: 40 marks (15 practical, 25 theoretical) — 60 marks (25 practical, 35 theoretical)

4. Learning and Teaching Resources	
Required Textbooks (Prescribed Curriculum, if available)	
Main References (Sources)	
Recommended Supporting Books and References (Scientific Journals, Reports, etc.)	
Electronic References and Internet Sites	

Course Description Template

Course Title
Level: Second Year/ Oral Physiology
Course Code

ORA20202
Semester/Year
2025– 2024
Date of Course Description Preparation
2025 –4 –13
Available Attendance Formats:
In person
Total Study Hours / Total Units: 5 hours per week (2 hours theory, 4 hours practical)
5 hours per week (2 hours theory, 3 hours practical) Unite 7
Name of Course Coordinator (if more than one, list all):
Name: Assistant Lecturer Hanan Qasim **Email:** Hanan313hn@gmail.com
Course Objectives

Course Learning Objectives: To introduce students to the general principles of oral physiology	● ..... ● ..... ● .....

aching and Learning Strategies

Strategy	**:** introduce students to oral physiology as it relates to the ld of dental technology, particularly in maxillofacial prosthetics.

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Hours	Week	Intended Learning Outcomes	Unit or Topic Name	Teaching Method	Assessment Method |
1 2 3 4	2		Introduction and how the body functions control Physiology of circulatory system: the function of each Physiology of blood		

5			circulation: types of blood circulation		
6			Blood: definition and composition		
7			Blood: functions		
8			Blood: The formed elements of blood and normal values		
9			Blood groups: ABO system and RH system		
10			Physiology of oral cavity and digestive process: Saliva and salivary glands		
11			Saliva: composition and functions of saliva in mastication and speech		
12			Physiology of tongue and taste sensation		
13			Physiology of the teeth: the role of teeth arrangement in mastication		
14			Physiology of muscles of mastication		
15			Physiology of the pharynx and velopharyngeal		

			competence Physiology of the soft palate Defects of soft palates		

Course Assessment •
Grade distribution out of 100 based on the tasks assigned to the student, such as daily preparation, daily exams, oral exams, monthly written exams, reports, etc.: 40 marks (15 practical, 25 theoretical) — 60 marks (25 practical, 35 theoretical)

4. Learning and Teaching Resources	
Required Textbooks (Prescribed Curriculum, if available)	
Main References (Sources)	
Recommended Supporting Books and References (Scientific Journals, Reports, etc.)	
Electronic References and Internet Sites	

Course Description Template

Course title
Second Stage /Basic Chemistry
Course Code
CHE20201
Semester / Year •
2025– 2024
Date of Course Description Preparation •
2025 –4 –13
Available Attendance Formats:
In person
Total Study Hours / Total Units
(2 hours theory, 4 hours practical) **Total Units:** 4
Course Coordinator(s):
Name: Asst. Prof. Hussein Arak Majid Alzubaidi

Email: zubaidi@aul.edu

Course Objectives

Course Objectives To introduce students to the fundamental chemical structures of most dental materials. Would you like to expand this with additional learning outcomes or keep it brief and focused**?**	..... • ..... • ..... •

Teaching and Learning Strategies

Strategy	To enable students in the Dental Technology Department to understand the molecular and structural composition of dental materials.

Course Structure

Hours	Week	Intended Learning Outcomes	Unit or Topic Name	Teaching Method	Assessment Method |
1	2		Introduction of general chemistry matter		
2					
3			Atom , atomic number mass number		
			Periodic table Chemical bonds		
4			Method of analysis solution		
5			Molarity normality and dilution		
6			Chemical reactions		
7					
8			Solubility and ionization		
			Neutration analysis acid and base theory		
9					
			PH, buffer and end point		
10			Beers law		

11 12 13 14 15			Lipids Proteins Enzymes and vitamins		

Course Assessment
Grade distribution out of 100 based on the tasks assigned to the student, such as daily preparation, daily exams, oral exams, monthly written exams, reports, etc.: 40 marks (15 practical, 25 theoretical) — 60 marks (25 practical, 35 theoretical)

4. Learning and Teaching Resources	
Required Textbooks (Prescribed Curriculum, if available)	An Introduction to General, Organic, And Biological Chemistry
Main References (Sources)	Chemistry: The Central Science
Recommended Supporting Books and References (Scientific Journals, Reports, etc.)	
Electronic References and Internet Sites	

Course Description Template

Course Title
Second Stage/ Advanced Chemistry
Course Code
CHE20202

Semster/Year
2025– 2024
Date of Course Description Preparation
2025 –4 –13
Available Attendance Formats:
In Person
Total Study Hours / Total Units:
(2 hours theory, 4 hours practical) **Total Units:** 4
Course Coordinator(s): •
Name: Asst. Prof. Abbas Hadi **Email:** [Not provided]
Course Objectives:

Course Objectives: To introduce students to the fundamental chemical structures of most dental materials	
Course Learning Objectives:	
Strategy	

Course Structure

Hours	Week	Intended Learning Outcomes	Unit or Topic Name	Teaching Method	Assessment Method |
1	2		Introduction of organic chemistry		
2			Alkanes, Alkenes alkynes		
3			Alcohols, classification properites and their reactions		
4			Aldehydes and ketones Carboxylic acid		
5			Amines,aromatic hydrocabones and aromatic compound		
6			Introduction to biochemistry		
7			Aminoacid and protines		
8			Introduction to polymer		

9 10 11 12 13 14 15			chemistry Polymers , classification Reactions of polymer Natural polymers The mechanics of elastic solid Stress- stain curve Green chemistry		

Course Assessment
Grade distribution out of 100 based on the tasks assigned to the student, such as daily preparation, daily exams, oral exams, monthly written exams, reports, etc.: 40 marks (15 practical, 25 theoretical) — 60 marks (25 practical, 35 theoretical)

Teaching and Learning Resources	
Primary References (Sources)	An Introduction to General, Organic, And Biological Chemistry
Recommended Books and References (Scientific journals, reports, etc.)	
Electronic References, Websites	SCIENTIFIC AMERICAN – Chemistry Journal
Primary References (Sources)	