

**Ministry of Higher Education and Scientific Research  
Scientific Supervision and Scientific Evaluation Apparatus  
Directorate of Quality Assurance and Academic Accreditation  
Accreditation Department**



# **Academic Program and Course Description Guide**

**College of Dentistry – University of Mosul**

**2025 – 2026**

## **Introduction:**

The educational program is a well-planned set of courses that include procedures and experiences arranged in the form of an academic syllabus. Its main goal is to improve and build graduates' skills so they are ready for the job market. The program is reviewed and evaluated every year through internal or external audit procedures and programs like the External Examiner Program.

The academic program description is a short summary of the main features of the program and its courses. It shows what skills students are working to develop based on the program's goals. This description is very important because it is the main part of getting the program accredited, and it is written by the teaching staff together under the supervision of scientific committees in the scientific departments.

This guide, in its second version, includes a description of the academic program after updating the subjects and paragraphs of the previous guide in light of the updates and developments of the educational system in Iraq, which included the description of the academic program in its traditional form (annual, quarterly), as well as the adoption of the academic program description circulated according to the letter of the Department of Studies T 3/2906 on 3/5/2023 regarding the programs that adopt the Bologna Process as the basis for their work.

In this regard, we can only emphasize the importance of writing an academic programs and course description to ensure the proper functioning of the educational process.

## **Concepts and terminology:**

**Academic Program Description:** The academic program description provides a brief summary of its vision, mission and objectives, including an accurate description of the targeted learning outcomes according to specific learning strategies.

**Course Description:** Provides a brief summary of the most important characteristics of the course and the learning outcomes expected of the students to achieve, proving whether they have made the most of the available learning opportunities. It is derived from the program description.

**Program Vision:** An ambitious picture for the future of the academic program to be sophisticated, inspiring, stimulating, realistic and applicable.

**Program Mission:** Briefly outlines the objectives and activities necessary to achieve them and defines the program's development paths and directions.

**Program Objectives:** They are statements that describe what the academic program intends to achieve within a specific period of time and are measurable and observable.

**Curriculum Structure:** All courses / subjects included in the academic program according to the approved learning system (quarterly, annual, Bologna Process) whether it is a requirement (ministry, university, college and scientific department) with the number of credit hours.

**Learning Outcomes:** A compatible set of knowledge, skills and values acquired by students after the successful completion of the academic program and must determine the learning outcomes of each course in a way that achieves the objectives of the program.

**Teaching and learning strategies:** They are the strategies used by the faculty members to develop students' teaching and learning, and they are plans that are followed to reach the learning goals. They describe all classroom and extra-curricular activities to achieve the learning outcomes of the program.

## Academic Program Description Form

University Name: University of Mosul

Faculty/Institute: College of Dentistry

Scientific Department: N/A

Academic or Professional Program Name: Dentistry

Final Certificate Name: Bachelor's Degree in Dental Surgery (B.D.S.)

Academic System: Annual

Description Preparation Date: 01 December 2025 for the 2025-2026 academic year

File Completion Date: 18 December 2025

Signature

Head of Department Name:

Assist Prof Dr Niam Riyadh Saleem

Date: 18 December 2025

Signature

Scientific Associate Name:

Prof. Dr Ali Rajih Al-Khatib

Date: 18 December 2025

The file is checked by:

Department of Quality Assurance and University Performance

Director of the Quality Assurance and University Performance Department:

Assist Prof Dr Alyaa Ismael Naser

Signature:

Admin of Quality Assurance Unit: Assist Lect. Ali Khalil Marie

Date: 18 December 2025



**1. Program Vision**

Program vision is written here as stated in the university's catalogue and website.

**2. Program Mission**

Program mission is written here as stated in the university's catalogue and website.

**3. Program Objectives**

The College of Dentistry was established in the academic year 1982-1983 to be another basic building block to be added to the rest of the colleges at the University of Mosul. It aims to prepare medical staff specialized in oral and maxillofacial medicine and surgery with a distinguished scientific and professional level. The college contains educational medical clinics in which students are trained. Clinically in modern clinics in all specialties and fields of dentistry (oral and maxillofacial surgery, dental industry, pediatric dentistry, preventive dentistry, orthodontics, dental treatment and periodontal diseases) and with the latest technologies. This is in addition to their teaching in various scientific and applied laboratories, and the duration of study in the college is five years.

**4. Program Accreditation**

Does the program have program accreditation? And from which agency?

No

**5. Other external influences**

Is there a sponsor for the program?

No

6. Program Structure				
Program Structure	Number of Courses	Credit hours	Percentage	Reviews*
Institution Requirements: N/A				
College Requirements	First year – 9	37	5%	
	Second year - 10	44	10%	
	Third year - 10	44	15%	
	Fourth year - 9	44	30%	
	Fifth year - 9	53	40%	
Summer Training		Fourth year: 80 hrs, Fifth year: 80 hrs		
<p><b>Department Requirements</b></p> <p>Total theoretical hours for all years : 1755.</p> <p>Total practical/clinical hours for all years: 3180.</p> <p>Total credits for all years: 244.</p> <p>The research project for fifth year consists of theoretical course (1 credit) for one semester and research project during the second semester.</p>				

Program Description					
Year / Level	Course Code	Course Name	Hours		Credits
			theoretical	practical	
First year	1261 MP	Medical Physics	60	60	6
	1262 PROG	Computer	30	60	4
	1263 MC	Medical Chemistry	60	60	6
	1264 MBIO	Medical Biology	60	60	6
	1265 DENA	Dental Anatomy	60	60	6
	1266 HRD	Human Rights and Democracy	30	N/A	2
	1267 MT	Medical Terminology	15	N/A	1
	1268 HUMA	Human Anatomy	30	60	4
	1269 ARA	Arabic Language	30	NA	
		<b>Total</b>		<b>375</b>	<b>360</b>

<b>Program Description</b>					
<b>Year / Level</b>	<b>Course Code</b>	<b>Course Name</b>	<b>Hours</b>		<b>Credits</b>
			<b>theoretical</b>	<b>practical</b>	
<b>Second year</b>	<b>2261 HUMA</b>	General Anatomy	30	60	4
	<b>2262 PROS</b>	Prosthodontics	30	120	6
	<b>2263 GHIS</b>	General Histology	60	60	6
	<b>2264 MPHS</b>	General Physiology	60	60	6
	<b>2265 BICH</b>	Biochemistry	60	60	6
	<b>2266 OHISE</b>	Oral Histology and Embryology	60	60	6
	<b>2267 CBP</b>	Crimes of Al-Ba'ath Party	30	N/A	2
	<b>2268 DM</b>	Dental Materials	30	60	4
	<b>2269 PROG</b>	Computer	15	30	2
	<b>22610 ARA</b>	Arabic Language	30	NA	2
	<b>Total</b>		<b>405</b>	<b>510</b>	<b>44</b>

Program Description					
Year / Level	Course Code	Course Name	Hours		Credits
			theoretical	practical	
Third year	<b>3261 PROS</b>	Prosthodontics	30	60	4
	<b>3262 OSUR</b>	Oral Surgery	30	60	4
	<b>3263 MICB</b>	Microbiology	60	60	6
	<b>3264 GPATH</b>	General Pathology	60	60	6
	<b>3265 PHAR</b>	Pharmacology	60	60	6
	<b>3266 PCOD</b>	Preclinical Operative Dentistry	30	60	4
	<b>3267 PFP</b>	Preclinical Fixed Prosthodontics	30	60	4
	<b>3268 COMD</b>	Community Dentistry	30	60	4
	<b>3629 DETH</b>	Dental Ethics	30	N/A	2
	<b>32610 DRAD</b>	Dental Radiology	30	60	4
		<b>Total</b>		<b>390</b>	<b>540</b>

Program Description					
Year / Level	Course Code	Course Name	Hours		Credits
			theoretical	practical	
Fourth year	4261 GMED	General Medicine	30	NA	2
	4262 GSUG	General Surgery	30	NA	2
	4263 OPATH	Oral Pathology	60	60	6
	4264 PED	Pediatric Dentistry	30	60	4
	4265 PERI	Periodontology	30	90	5
	4266 ORTH	Orthodontics	30	120	6
	4267 OSUR	Oral Surgery	30	120	6
	4268 COND	Operative and Esthetic Dentistry and Endodontics	30	180	8
	4269 PROS	Prosthodontics	30	90	5
		<b>Total</b>		<b>300</b>	<b>720</b>

\* Courses highlighted in pink are subjected to be included in the ministerial comprehensive examination

Program Description					
Year / Level	Course Code	Course Name	Hours		Credits
			theoretical	practical	
Fifth year	<b>5261 PERI</b>	Periodontology	30	90	5
	<b>5262 PRVD</b>	Preventive Dentistry	30	90	5
	<b>5263 OSUR</b>	Oral Surgery	30	180	8
	<b>5264 PROS</b>	Prosthodontics	30	180	8
	<b>5265 CECF</b>	Clinical Endodontics and Clinical Fixed Prosthodontics	30	180	8
	<b>5266 ORTH</b>	Orthodontics	30	120	6
	<b>5267 PEDO</b>	Pedodontics	30	90	5
	<b>5268 OMED</b>	Oral Medicine	30	120	6
	<b>5269 RESP</b>	Research Project	15	N/A	2
		<b>Total</b>		<b>225</b>	<b>1050</b>

\* Courses highlighted in pink are subjected to be included in the ministerial comprehensive examination

<b>7. Expected learning outcomes of the program</b>	
<b>A. Knowledge</b>	
1. The student acquires comprehensive knowledge of the scientific terminology used in dentistry and the theoretical material.	1. Theoretical tests and practical tests.
2. Familiarize the students with different types of materials and devices used in dentistry.	2. Practical laboratories tests.
3. Enhancing the student's confidence to deal with all types of patients.	3. Practical mannequin skills tests.
4. Developing the student's ability to deal with different therapeutic cases.	4. Clinical tests on patients.
5. Strengthening the principle of participation students group discussions to discuss a medical condition and the method of its treatment.	5. Scientific reports and academic studies.
6. Providing the student with complete knowledge to enable him to prepare an integrated treatment plan for the patients.	6. Clinical tests on patients.
<b>B. Skills</b>	
1. Promoting professional ethics and patients' treatment approach between the graduates.	1. Clinical tests on patients.
2. Acquisition of various therapeutic skills for the students.	2. Clinical tests on patients.
3. Promoting the principle of continuous education to continue developing the dental profession.	3. Scientific reports and academic studies.

### C. Ethics

1. The skill of thinking according to the student's ability (let think about thinking ability).	1. The student to believe in what is tangible (the student's ability) and to understand when, what and how he should think and work to improve the ability to think reasonably.
2. Critical thinking skill.	2. Aims to pose a problem, analyze it logically, and reach the solution.
3. The balance between freedom and responsibility.	3. Enhances student's awareness of the necessity of balance between freedom and responsibility, to determine the best treatment for the patients.
4. Decision making ability	4. Enhances student's skill of making the right decision for the benefit of the patient based on logical thinking.

### 8. Teaching and Learning Strategies

- Giving lectures.
- Providing students with lectures on the college website.
- Educational videos.
- Utilization of projectors and digital cameras.
- Use of educational models.
- Training courses and workshops.
- Applied clinical education.
- Focused student group discussion.

### 9. Evaluation methods

- Theoretical tests.
- Oral exams.
- Laboratory practical tests.
- Practical mannequin tests.
- Practical tests on patients.
- Scientific reports and academic studies.
- Final year research project (Fifth year).

11. Teaching staff					
Academic Rank	Specialization		Number of the teaching staff		
	General	Special	Skills	Staff	Temp
Professor	Biological Science	Microbiology		1	0
Professor	Dentistry	Oral and dental pharmacology		2	0
Professor	Dentistry	General pharmacology		1	0
Professor	Dentistry	Conservative dentistry		3	0
Professor	Veterinary medicine	Human anatomy		1	0
Professor	Veterinary medicine	Veterinary pharmacology		1	0
Professor	Dentistry	Orthodontics		1	0
Professor	Dentistry	Oral and maxillofacial surgery		2	0
Professor	Dentistry	Operative dentistry		1	0
Professor	Dentistry	Prosthodontics		2	0
Professor	Dentistry	Preventive dentistry		1	0
Professor	Physics	Solid state electronics		1	0
Professor	Statistics	Applicable statistics		1	0
Professor	Arabic language	Modern literature		1	0
Assistant professor	Statistics	Applicable statistics		1	0
Assistant professor	Science	Oral microbiology		2	0
Assistant professor	Science	Intelligence technology		1	0
Assistant professor	Dentistry	Conservative dentistry		7	0
Assistant professor	Science	Physics		1	0

11. Teaching staff					
Academic Rank	Specialization		Number of the teaching staff		
	General	Special	Skills	Staff	Temp
Assistant professor	Dentistry	Oral pharmacology		1	0
Assistant professor	Dentistry	Orthodontics		11	0
Assistant professor	Dentistry	Oral and maxillofacial surgery		3	0
Assistant professor	Dentistry	Maxillofacial surgery		2	0
Assistant professor	Dentistry	Oral cancer		1	0
Assistant professor	Dentistry	Prosthodontics		8	0
Assistant professor	Dentistry	Preventive dentistry		1	0
Assistant professor	Dentistry	Oral medicine		1	0
Assistant professor	Dentistry	Philosophy in Dental Sciences		4	0
Assistant professor	Science	Biochemistry		3	0
Assistant professor	Science	Industrial chemistry		1	0
Assistant professor	Science	Animal Physiology		1	0
Assistant professor	Statistics	Applicable Statistics		1	0
Assistant professor	Science	Philosophy in biological science		1	0
Assistant professor	Literature	Arabic language		1	0

11. Teaching staff					
Academic Rank	Specialization		Number of the teaching staff		
	General	Special	Skills	Staff	Temp
Assistant professor	Dentistry	Operative dentistry		3	0
Assistant professor	Dentistry	Conservative dentistry		10	0
Assistant professor	Dentistry	Conservative dentistry (endodontics)		1	0
Assistant professor	Computer science	Intelligence technology		1	0
Assistant professor	Dentistry	Oral microbiology		2	0
Assistant professor	Dentistry	Histology and anatomy		1	0
Assistant professor	Dentistry	Dental and Oral pharmacology		1	0
Lecturer	Dentistry	Oral microbiology		2	0
Lecturer	Dentistry	Philosophy in dental science		1	0
Lecturer	Pharmacology	Oral pharmacology		3	0
Lecturer	Pharmacology	Pharmacology		1	0
Lecturer	Dentistry	Dental radiology		2	0
Lecturer	Science	Microbiology (bacteria)		1	0
Lecturer	Science	Microbiology		1	0
Lecturer	Dentistry	Oral Microbiology		1	0
Lecturer	Dentistry	Anatomy and histology		1	0
Lecturer	Dentistry	Endodontics		2	0
Lecturer	Science	Medical physiology		1	0
Lecturer	Science	Chemistry		1	0
Lecturer	Science	Biochemistry		2	0
Lecturer	Dentistry	Periodontology		1	0
Lecturer	Dentistry	Oral histology		2	0

<b>11. Teaching staff</b>					
<b>Academic Rank</b>	<b>Specialization</b>		<b>Number of the teaching staff</b>		
	<b>General</b>	<b>Special</b>	<b>Skills</b>	<b>Staff</b>	<b>Temp</b>
Lecturer	Science	Histology / physiology		2	0
Lecturer	Science	Biotechnology		1	0
Lecturer	Dentistry	Orthodontics		13	0
Lecturer	Dentistry	Oral and maxillofacial surgery		10	0
Lecturer	Dentistry	Prosthodontics		16	0
Lecturer	Dentistry	Preventive dentistry		3	0
Lecturer	Dentistry	Oral medicine		3	0
Lecturer	Dentistry	Conservative dentistry		7	0
Lecturer	Dentistry	Endodontics		1	0
Lecturer	Science	Biology		2	0
Lecturer	Science	Physics		1	0
Lecturer	Science	Solid Physics		1	0
Lecturer	Biology	Animal science		2	0
Lecturer	Veterinary medicine	Veterinary physiology		1	0
Lecturer	Science	Medical physics		1	0
Lecturer	Science	Biochemistry		1	0
Lecturer	Dentistry	Operative dentistry		2	0
Lecturer	Dentistry	Oral and maxillofacial tissue engineering		1	0
Lecturer	Business and administration	Strategic administration		1	0
Assistant lecturer	Biology	Oral microbiology		1	0
Assistant lecturer	Literature	Translation		1	0
Assistant lecturer	Economy and administration	Legal accountancy		1	0

<b>11. Teaching staff</b>					
<b>Academic Rank</b>	<b>Specialization</b>		<b>Number of the teaching staff</b>		
	<b>General</b>	<b>Special</b>	<b>Skills</b>	<b>Staff</b>	<b>Temp</b>
Assistant lecturer	Dentistry	General pathology		1	0
Assistant lecturer	Science	General histology		1	0
Assistant lecturer	Biology	Histology		1	0
Assistant lecturer	Veterinary medicine	Anatomy and histology		1	0
Assistant lecturer	Dentistry	Orthodontics		6	0
Assistant lecturer	Dentistry	Oral and maxillofacial surgery		7	0
Assistant lecturer	Dentistry	Prosthodontics		14	0
Assistant lecturer	Dentistry	Preventive dentistry		4	0
Assistant lecturer	Dentistry	Conservative dentistry		10	0
Assistant lecturer	Dentistry	Operative dentistry		7	0
Assistant lecturer	Veterinary medicine	Veterinary medicine surgery		3	0
Assistant lecturer	Veterinary medicine surgery	Physiology		1	0
Assistant lecturer	Dentistry	Paediatric dentistry		3	0
Assistant lecturer	Science	Chemistry science		1	0

<b>11. Teaching staff</b>					
<b>Academic Rank</b>	<b>Specialization</b>		<b>Number of the teaching staff</b>		
	<b>General</b>	<b>Special</b>	<b>Skills</b>	<b>Staff</b>	<b>Temp</b>
Assistant lecturer	Engineering	Medical devices engineering		2	0
Assistant lecturer	Engineering	Electrical and computer engineering		1	0
Assistant lecturer	Technical engineering	Medical devices electronic engineering		2	0
Assistant lecturer	Engineering	Computer engineering		2	0

<b>12. Professional Development</b>
<b>Mentoring new faculty members</b>
<p>The enrolment of our teaching staff in the teaching skills development courses held by the University of Mosul through teaching methodologies courses and teaching suitability tests.</p> <p>The enrolment of our teaching staff in English and Arabic language development courses for teaching and promotion purposes organized by the University of Mosul.</p> <p>The enrolment of our teaching staff in computer skills and medical statistics courses to develop their skills in using modern technologies in teaching.</p>
<b>Professional development of faculty members</b>
<p>Continuously working to measure the performance level of the teaching staff and comparing it with their counterpart in similar educational institutions. Also, to evaluate the teaching staff performance continuously by logging it into integrated database that allows for proper feedback system, which ultimately contributes to the enhancement of the educational level, that is aiming at advancing the level of quality of services provided to patients.</p>

Organizing continuing education programs for the teaching staff and practicing dentists from other health institutions to develop their scientific, professional and research capabilities. Hence, ensuring the continuous renewal of their information and intellectual capabilities through periodic specialized discussion groups.

### **13. Acceptance Criterion**

Admission criteria include students who have a certain cumulative average according to the central admission system. Students who have the physical, mental, and social ability to manage any medical condition or practice required for study are also selected. Most dental schools require personal interviews with candidates to evaluate qualities such as the desire to help people, self-confidence, and ability to take on challenges, ability to work with people and ability to work independently.

### **14. The most important sources of information about the program**

1. The college and university websites.
2. The university guide booklet.
3. College books and scientific sources.

### **15. Program Development Plan**

The College of Dentistry / University of Mosul is following the unified curriculum of dental colleges in Iraq that has been approved by the board of dental colleges in Iraq since 2022-2023. This has been continuously reviewed by a specialised committee according to administrative order No 206 on 15/03/2022 from College of Dentistry / University of Baghdad.

The college is working hard to update the curriculum every academic year by about 1-5%.

Striving through twinning with corresponding dental colleges in prestigious universities locally, regionally and internationally to enhance the academic and scientific performance of the teaching staff and students in the college. Also, through the participation in the academic and scientific forums and meeting locally, regionally and internationally.

The continuous discussion to achieve the best benefit of the e-learning and to increase its impact on the education system to adopt it as adjunct to the traditional teaching methods. As well as, the continuous endeavour of the college to develop its teaching staff in order to advance the educational process to continue the advancement with the latest teaching methods.

Program Skills Outline															
				Required program Learning outcomes											
Year / Level	Course Code	Course Name	Basic or optional	Knowledge				Skills				Ethics			
				A1	A2	A3	A4	B1	B2	B3	B4	C1	C2	C3	C4
First year	1261 MP	Medical Physics	Basic	√	√			√	√	√	√	√	√	√	√
	1262 PROG	Computer	Basic	√	√			√	√	√	√	√	√	√	√
	1263 MC	Medical Chemistry	Basic	√	√			√	√	√	√	√	√	√	√
	1264 MBIO	Medical Biology	Basic	√	√			√	√	√	√	√	√	√	√
	1265 DENA	Dental Anatomy	Basic	√	√			√	√			√	√		
	1266 HRD	Human Rights and Democracy	Basic	√	√			√	√	√		√	√	√	√
	1267 MT	English Language and Dental Terminology	Basic	√	√	√	√	√	√			√	√	√	√
	1268 HUMA	Human Anatomy	Basic	√	√	√	√	√	√			√	√	√	√
	1269 ARA	Arabic Language	Basic	√	√	√	√								

√ Please tick the boxes corresponding to the individual program learning outcomes under evaluation.

Program Skills Outline															
				Required program Learning outcomes											
Year / Level	Course Code	Course Name	Basic or optional	Knowledge				Skills				Ethics			
				A1	A2	A3	A4	B1	B2	B3	B4	C1	C2	C3	C4
Second year	2261 HUMA	General Anatomy	Basic	√	√	√		√	√		√	√	√		
	2262 PROS	Prosthodontics	Basic	√	√			√	√		√	√	√	√	√
	2263 GHIS	General Histology	Basic	√	√	√		√	√		√	√	√	√	
	2264 MPHS	General Physiology	Basic	√	√	√	√	√	√	√	√	√	√	√	√
	2265 BICH	Biochemistry	Basic	√	√	√		√	√			√			
	2266 OHISE	Oral Histology and Embryology	Basic	√	√			√	√			√	√		
	2267 CBP	Crimes of Al-Ba'ath Party	Basic	√	√							√	√	√	√
	2268 DM	Dental Materials	Basic	√	√	√	√	√	√	√	√	√	√		
	2269 PROG	Computer	Basic	√	√			√	√	√	√	√			
	22610 ARA	Arabic Language	Basic	√	√	√	√								

√ Please tick the boxes corresponding to the individual program learning outcomes under evaluation.

Program Skills Outline															
				Required program Learning outcomes											
Year / Level	Course Code	Course Name	Basic or optional	Knowledge				Skills				Ethics			
				A1	A2	A3	A4	B1	B2	B3	B4	C1	C2	C3	C4
Third year	3261 PROS	Prosthodontics	Basic	√	√	√	√	√	√	√	√	√	√		
	3262 OSUR	Oral Surgery	Basic	√	√	√	√	√	√		√	√	√		√
	3263 MICB	Microbiology	Basic	√	√	√		√	√	√		√	√	√	
	3264 GPATH	General Pathology	Basic	√	√			√	√			√	√		√
	3265 PHAR	Pharmacology	Basic	√	√	√	√	√	√			√			
	3266 PCOD	Preclinical Operative Dentistry	Basic	√	√	√		√	√	√	√	√	√		
	3267 PFP	Preclinical Fixed Prosthodontics	Basic	√	√	√		√	√	√		√	√	√	√
	3268 COMD	Community Dentistry	Basic	√	√			√	√	√	√	√	√	√	√
	3269 DETH	Dental Ethics	Basic	√				√	√		√	√	√	√	√
	32610 ADDR	Dental Radiology	Basic	√	√	√		√	√	√	√	√	√		

√ Please tick the boxes corresponding to the individual program learning outcomes under evaluation.

Program Skills Outline															
				Required program Learning outcomes											
Year / Level	Course Code	Course Name	Basic or optional	Knowledge				Skills				Ethics			
				A1	A2	A3	A4	B1	B2	B3	B4	C1	C2	C3	C4
Fourth year	4261 GMED	General Medicine	Basic	√	√	√		√	√	√		√	√	√	
	4262 GSUG	General Surgery	Basic	√	√	√		√	√	√		√	√	√	
	4263 OPATH	Oral Pathology	Basic	√	√	√		√		√		√			
	4264 PED	Pediatric Dentistry	Basic	√	√	√		√		√		√	√	√	
	4265 PERI	Periodontology	Basic	√	√	√		√	√			√	√		
	4266 ORTH	Orthodontics	Basic	√	√	√	√	√	√			√	√		
	4267 OSUR	Oral Surgery	Basic	√	√	√		√	√	√		√	√		
	4268 COND	Operative and Esthetic Dentistry and Endodontics	Basic	√	√	√		√	√			√	√	√	
	4269 PROS	Prosthodontics	Basic	√	√	√		√	√			√	√		

√ Please tick the boxes corresponding to the individual program learning outcomes under evaluation.

Program Skills Outline															
				Required program Learning outcomes											
Year / Level	Course Code	Course Name	Basic or optional	Knowledge				Skills				Ethics			
				A1	A2	A3	A4	B1	B2	B3	B4	C1	C2	C3	C4
Fifth year	5261 PERI	Periodontology	Basic	√	√	√	√	√	√	√		√	√		
	5262 PRVD	Preventive Dentistry	Basic	√	√	√		√	√	√		√	√		
	5263 OSUR	Oral Surgery	Basic	√	√			√	√	√	√	√	√		
	5264 PROS	Prosthodontics	Basic	√	√	√		√	√	√		√	√	√	√
	5265 CECP	Clinical Endodontics and Clinical Fixed Prosthodontics	Basic	√	√	√		√	√	√		√	√		
	5266 ORTH	Orthodontics	Basic	√	√	√	√	√	√	√	√	√	√	√	√
	5267 PEDO	Pedodontics	Basic	√				√	√			√			
	5268 OMED	Oral Medicine	Basic	√	√	√		√	√	√		√	√	√	
	5269 RESP	Research Project	Basic	√	√	√		√	√	√		√	√		

√ Please tick the boxes corresponding to the individual program learning outcomes under evaluation.

## Course Description – First year

### Course Description Form

<b>1. Course Name:</b>	
Medical Physics	
<b>2. Course Code:</b>	
1261 MP	
<b>3. Semester / Year:</b>	
First year / 2025-2026	
<b>4. Description Preparation Date:</b>	
02/12/2025	
<b>5. Available Attendance Forms:</b>	
Theoretical and practical	
<b>6. Number of Credit Hours (Total) / Number of Units (Total)</b>	
Theoretical: 60 hours, practical: 60 hours. Total units: 6	
<b>7. Course administrator's name (mention all, if more than one name)</b>	
Name:	Email
Assistant professor Atyaf Subhi Alrawas	<a href="mailto:atyafalrawas@uomosuledu.iq">atyafalrawas@uomosuledu.iq</a>
Lect Enas ghazi	<a href="mailto:Enasghazi@uomosul.edu.iq">Enasghazi@uomosul.edu.iq</a>
Lect fatin Mohammed	<a href="mailto:fatinmhmam@uomosul.edu.iq">fatinmhmam@uomosul.edu.iq</a>
Assist Lect Ayman Thafer	<a href="mailto:ayman@uomosul.edu.iq">ayman@uomosul.edu.iq</a>
Assist Lect Marwan Al-Sawaf	<a href="mailto:Marwanalasawaf@uomosul.edu.iq">Marwanalasawaf@uomosul.edu.iq</a>
<b>8. Course Objectives</b>	
<b>Course Objectives</b>	<ul style="list-style-type: none"><li>- Introduction to basic physics.</li><li>- Study of medical physics related to dentistry.</li><li>- Practical experiments for physical properties and phenomena.</li></ul>
<b>9. Teaching and Learning Strategies</b>	
<b>Strategy</b>	<ul style="list-style-type: none"><li>- Theory lectures and practical laboratories.</li><li>- Educational videos and utilization of smart boards.</li><li>- Use of educational models.</li><li>- Focused student group discussion.</li></ul>

## 10. Course Structure

### Theoretical part

Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2	Terms: Medical Physics, physical medicine, Physical therapy, Health Physics, Radiological Physics, clinical physics.	Terminology	Theory lectures	Theory exam
2	2	Modeling, Accuracy, Precision, False Positive, False Negative.	Terminology	Theory lectures	Theory exam
3	2	Static forces :( type of levers with medical examples).	Force on & in body	Theory lectures	Theory exam
4	2	Dynamic forces (Centrifuge)	Force on & in body	Theory lectures	Theory exam
5	2	Bones:(Function of bones, Composition of bone, bone remodeling, compact and trabecular bone)	Physics of the skeleton	Theory lectures	Theory exam
6	2	Stress-strain curve: (compressive and tensile stress, young modulus). Bone joints: (Synovial fluid, coefficient of a joint).	Physics of the skeleton	Theory lectures	Theory exam
7	2	Physical basis of heat and temperature, Temperature scales, Converting Temperatures, Temperature in Dentistry, Thermal expansion, (Linear, Area, Volume Thermal Expansion).	Heat and cold in medicine	Theory lectures	Theory exam
8	2	Thermometry, Heat therapy, Thermography, Cold in medicine and cryosurgery. Thermal conductivity.	Heat and cold in medicine	Theory lectures	Theory exam
9	2	First law of thermodynamic. Energy change in the body (Met, Basal metabolic rate (BMR)).	Energy, work and power of the body	Theory lectures	Theory exam
10	2	Work and power. Efficiency heat losses from the body. Anaerobic phase and aerobic phase.	Energy, work and power of the body	Theory lectures	Theory exam

## 10. Course Structure

### Theoretical part

Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
		Hypothalamus (body's thermostat). Heat lost by (radiation, convection, evaporation of sweat and respiration).			
11	2	Definition, absolute pressure, gauge pressure, negative pressure, unit of pressure. Measurement of pressure in the body (Manometer).	Pressure	Theory lectures	Theory exam
12	2	Pressure inside the skull. Eye pressure. Pressure in the skeleton. Pressure in the urinary bladder. Boyle's law: (pressure while diving). HOT (hyperbaric oxygen therapy).	Pressure	Theory lectures	Theory exam
13	2	Electrical potential of nerves (resting potential, action potential in myelinated and unmyelinated nerves) Electromyogram (EMG).	Electricity within the body	Theory lectures	Theory exam
14	2	Electrical potential in the heart (electrocardiogram Electroencephalogram (EEG)).	Electricity within the body	Theory lectures	Theory exam
15	2	Properties of sound.	Sound in medicine	Theory lectures	Theory exam
16	2	Stethoscope (including heart sound), mechanism of hearing.	Sound in medicine	Theory lectures	Theory exam
17	2	(A-scan, B-scan, M-scan and Doppler effect).	Ultrasound	Theory lectures	Theory exam
18	2	Physiological effect of ultrasound in therapy.	Ultrasound	Theory lectures	Theory exam
19	2	Light nature, Planck Equation, (Reflection, Refraction and Absorption of Light, Properties of light).	Light in medicine	Theory lectures	Theory exam

## 10. Course Structure

### Theoretical part

Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
20	2	Diffuse reflection, Specular reflection, Phototherapy, Application of ultraviolet and infrared light in medicine, Tanning and Skin Cancer.	Light in medicine	Theory lectures	Theory exam
21	2	What is laser? Application of laser in medicine. Atomic Transitions, Population inversion, Laser Typical Characteristics.	Laser in medicine	Theory lectures	Theory exam
22	2	General Applications of Laser, Laser Dental. Applications, Reshape gum tissue, Laser aided teeth whitening, Laser Drill.	Laser in medicine	Theory lectures	Theory exam
23	2	Focusing element of the eye (cornea, lens).	Physics of eye and vision	Theory lectures	Theory exam
24	2	Element of the eye (pupil, aqueous humor, vitreous humor, sclera). Visual acuity, Snellen chart, optical density.	Physics of eye and vision	Theory lectures	Theory exam
25	2	Properties of X-ray, production of X-ray. Absorption of X-ray, contrast media-ray image (penumbra, grid, and intensifying screens).	Physics of diagnostic X-ray	Theory lectures	Theory exam
26	2	Radiation to patients from X-ray (filters).	Physics of diagnostic X-ray	Theory lectures	Theory exam
27	2	Radioactivity decay, half-life, units. Basic instrumentation and its medical application (GM-tube, Photomultiplier tube, scintillation detector, solid state detector).	Physics of nuclear medicine	Theory lectures	Theory exam
28	2	Therapy with radioactivity. Radiation doses in nuclear medicine.	Physics of nuclear medicine	Theory lectures	Theory exam

## 10. Course Structure

### Theoretical part

Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
29	2	The dose units (Rad and Gray). Principles of radiation therapy.	Physics of radiation therapy	Theory lectures	Theory exam
30	2	Brach therapy, quality factor (QF).	Physics of radiation therapy	Theory lectures	Theory exam

### Practical part

Week	Hr	Laboratory subject	Learning method	Evaluation method
1	2	Guidelines of Medical Physics Lab and Rules must be obeyed by the students	Practical work	Practical exam
2	2	Graphing Techniques	Practical work	Practical exam
3	2	Ohm's law: - verify ohm's law - to find the value of different values of resistance	Practical work	Practical exam
4	2	Ohm's law: - verify ohm's law - to find the value of different values of resistance	Practical work	Practical exam
5	2	Semiconductors (junction diode): To determine the characteristics of the semiconductors Comparison between omic and non-omic resistance	Practical work	Practical exam
6	2	Semiconductors (junction diode): To determine the characteristics of the semiconductors Comparison between omic and non-omic resistance	Practical work	Practical exam
7	2	Cathode ray oscilloscope to measure D.C voltage	Practical work	Practical exam
8	2	Cathode ray oscilloscope to measure A.C voltage	Practical work	Practical exam
9	2	The focal length of convex lens: -Rough value of focal length of different convex lenses, -A graphical method of measuring of focal length, Comparison between these methods and the given value.	Practical work	Practical exam
10	2	The focal length of convex lens: -Rough value of focal length of different convex lenses, -A graphical	Practical work	Practical exam

<b>Practical part</b>				
<b>Week</b>	<b>Hr</b>	<b>Laboratory subject</b>	<b>Learning method</b>	<b>Evaluation method</b>
		method of measuring of focal length, Comparison between these methods and the given value.		
11	2	Hook's law: -To verify Hook's law and determine the force constant of the spring. -To determine the work done by stretching the spring	Practical work	Practical exam
12	2	Hook's law: -To verify Hook's law and determine the force constant of the spring. -To determine the work done by stretching the spring	Practical work	Practical exam
13	2	Focal length of concave mirror: -Locating the radius of curvature Determining the focal length	Practical work	Practical exam
14	2	Focal length of concave mirror: -Locating the radius of curvature Determining the focal length	Practical work	Practical exam
15	2	General review and exam	Practical work	Practical exam
16	2	Laser applications: -To measure the width of a single slit by using a laser To measure the wavelength of laser by using a certain single slit	Practical work	Practical exam
17	2	Laser applications: -To measure the width of a single slit by using a laser To measure the wavelength of laser by using a certain single slit	Practical work	Practical exam
18	2	Boyle's law: -To verify Boyle's law -To measure the pressure of the atmosphere	Practical work	Practical exam
19	2	Boyle's law: -To verify Boyle's law -To measure the pressure of the atmosphere	Practical work	Practical exam
20	2	Inverse Square law: - To verify the inverse square law - Radiation shielding by different thicknesses of a certain material	Practical work	Practical exam
21	2	Inverse Square law: - To verify the inverse square law - Radiation shielding by different thicknesses of a certain material	Practical work	Practical exam
22	2	Viscosity of a liquid - To determine the viscosity of a medium using a small sphere falls with a constant terminal velocity. - To verify Stokes' law	Practical work	Practical exam
23	2	Viscosity of a liquid - To determine the viscosity of a medium using a small sphere falls with a constant terminal velocity. - To verify Stokes' law	Practical work	Practical exam

<b>Practical part</b>				
<b>Week</b>	<b>Hr</b>	<b>Laboratory subject</b>	<b>Learning method</b>	<b>Evaluation method</b>
24	2	Velocity of the sound - To measure the velocity of the sound by using a resonance tube, closed at one end, at room temperature. - Calculated the	Practical work	Practical exam
25	2	theoretical and practical values of the velocity of sound and comparing between them	Practical work	Practical exam
26	2	Velocity of the sound - To measure the velocity of the sound by using a resonance tube, closed at one end, at room temperature. - Calculated the theoretical and practical values of the velocity of sound and comparing between them	Practical work	Practical exam
27	2	The focal length of a converging lens - To determine the focal length of a converging lens by lens displacement method using conjugate foci. - To calculate curvature value of this converging lens	Practical work	Practical exam
28	2	The focal length of a converging lens - To determine the focal length of a converging lens by lens displacement method using conjugate foci. - To calculate curvature value of this converging lens	Practical work	Practical exam
29	2	Simple Pendulum -To determine the periodic time and its variation with the length of the pendulum -To calculate the acceleration of free fall	Practical work	Practical exam
30	2	Simple Pendulum -To determine the periodic time and its variation with the length of the pendulum -To calculate the acceleration of free fall	Practical work	Practical exam

#### 11.Course evaluation

Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc

#### 12.Learning and Teaching Resources

Required textbooks (curricular books, if any)	Medical Physics (John Cameron) Physics of the human body(Irving Herman)
Main references (sources)	Some other general references
Recommended books and references (scientific journals, reports...)	

Electronic References, Websites	
Percentage of course update	5 %

Name and signature of the course administrator	Name and signature of Head of the Department
<b>Professor Dr. Atyaf Subhi Alrawas</b>	<b>Prof. Dr. Ghada Abd- Alrahman Taqa</b>

## Course Description Form

<b>1. Course Name:</b>	
Computer	
<b>2. Course Code:</b>	
1262 PROG	
<b>3. Semester / Year:</b>	
First year / 2025-2026	
<b>4. Description Preparation Date:</b>	
1/12/2025	
<b>5. Available Attendance Forms: On campus / Electronic Platform</b>	
Theoretical and practical	
<b>6. Number of Credit Hours () / Number of Units ():</b>	
Theoretical: 30 hours, practical: 60 hours Total units: 4	
<b>7. Course administrator's name (mention all, if more than one name)</b>	
Name: Prof Dr. Faris Ghanem Altaee <a href="mailto:drfarisaltaee@uomosul.edu.iq">drfarisaltaee@uomosul.edu.iq</a>	
Name: Assist Prof Dr. Reem Ali Aljaraah <a href="mailto:aljaraah@uomosul.edu.iq">aljaraah@uomosul.edu.iq</a>	
Name: Assist Prof Shahla Kharofa <a href="mailto:shahlakharofa@uomosul.edu.iq">shahlakharofa@uomosul.edu.iq</a>	
Name: Lecturer Ali Tariq Al-khayyat <a href="mailto:ali.khalil987@uomosul.edu.iq">ali.khalil987@uomosul.edu.iq</a>	
Name: Assist Lect Ahmed Khalid <a href="mailto:ahmedkhalid@uomosul.edu.iq">ahmedkhalid@uomosul.edu.iq</a>	
Name: Assist Lect Ahmed alwazan <a href="mailto:ahmed.alwazan@uomosul.edu.iq">ahmed.alwazan@uomosul.edu.iq</a>	
<b>8. Course Objectives</b>	
<b>Course Objectives</b>	<ul style="list-style-type: none"> <li>● Introduction to computer sciences</li> <li>● Study of computer software related to dentistry</li> <li>● Practical hand-on using Microsoft Office suite</li> </ul>
<b>9. Teaching and Learning Strategies</b>	
<b>Strategy</b>	<ul style="list-style-type: none"> <li>● Theory lectures and practical laboratories</li> <li>● Educational videos and utilization of smart boards</li> <li>● Use of educational models</li> <li>● Focused student group discussion</li> </ul>

<b>10. Course Structure</b>					
<b>Theory part</b>					
<b>Week</b>	<b>Hours</b>	<b>Required Learning Outcomes</b>	<b>Unit or subject name</b>	<b>Learning method</b>	<b>Evaluation method</b>
1	2	Introduction to Computer: Concept of Hardware and Software with their components, Concept of Computing, Data and Information, Application of Information Electronics and Communication Technology (IECT), Connecting input/output devices, and peripherals to CPU	Introduction to Computer	Theory lectures	Theory exam
2	2	Computer Components: Computer Portions, Hardware Parts, I/O Units, Memory Types	Computer Components	Theory lectures	Theory exam
3	2	Computer Components: Basic CPU Components, Computer Ports, Personal Computer, Personal Computer (Features and Types)	Computer Components	Theory lectures	Theory exam
4	2	Operating System and Graphical User Interface GUI: Operating System, Basic of Common Operating System, Operating System and Graphical User Interface GUI: The User Interface, Using Mouse Techniques, Use of Common Icons	Operating System and GUI	Theory lectures	Theory exam
5	2	Operating System and Graphical User Interface GUI: Status Bar, Using Menu and Menu-selection, Concept of Folders and Directories, Opening and Closing of	Operating System and GUI	Theory lectures	Theory exam

<b>10. Course Structure</b>					
<b>Theory part</b>					
<b>Week</b>	<b>Hours</b>	<b>Required Learning Outcomes</b>	<b>Unit or subject name</b>	<b>Learning method</b>	<b>Evaluation method</b>
		different Windows, Creating Short cuts			
6	2	Word Processing: Word Processing Basics, Opening and Closing of documents, Text Creation and Manipulation, Formatting of Text	Word Processing	Theory lectures	Theory exam
7	2	Word Processing: Table handling, Spell check, language setting and thesaurus, Printing of word document	Word Processing	Theory lectures	Theory exam
8	2	Spread Sheet: Basics of Spreadsheet, Manipulation of cells	Spread Sheet	Theory lectures	Theory exam
9	2	Spread Sheet: Formulas and Functions, Editing of Spread Sheet, printing of Spread Sheet	Spread Sheet	Theory lectures	Theory exam
10	2	Presentation Software: Basics of presentation software, Creating Presentation	Presentati on Software	Theory lectures	Theory exam
11	2	Presentation Software: Presentation and Presentation of Slides, Slide Show, Taking printouts of presentation / handouts	Presentati on Software	Theory lectures	Theory exam
12	2	Introduction to Internet and Web Browsers: Computer networks Basic, LAN, WAN, Concept of Internet and its Applications, connecting to internet, World Wide Web, Web Browsing software 's, Search Engines, Understanding URL, Domain name, IP Address	Introducti on to Internet and Web Browsers	Theory lectures	Theory exam

<b>10. Course Structure</b>					
<b>Theory part</b>					
<b>Week</b>	<b>Hours</b>	<b>Required Learning Outcomes</b>	<b>Unit or subject name</b>	<b>Learning method</b>	<b>Evaluation method</b>
13	2	Communications and Emails: Basics of electronic mail, Getting an email account, Sending and receiving emails	Communications and Emails	Theory lectures	Theory exam
14	2	Communications and Emails: Accessing sent emails, Using Emails, Document collaboration	Communications and Email	Theory lectures	Theory exam
15	2	Computer Troubleshooting: Identifying and solving common hardware and software problems that computer users encounter , Basic troubleshooting techniques and tools for diagnosing and resolving issues	Computer Troubleshooting	Theory lectures	Theory exam

<b>Practical/clinical part</b>				
<b>Week</b>	<b>Hours</b>	<b>Laboratory Subject name</b>	<b>Learning method</b>	<b>Evaluation method</b>
1	2	Introduction to Computer: Concept of Hardware and Software with their components, Concept of Computing, Data and Information	Practical work	Practical exam
2	2	Introduction to Computer: Application of Information Electronics and Communication Technology (IECT), Connecting input/output devices, and peripherals to CPU	Practical work	Practical exam
3	2	Computer Components: Computer Portions, Hardware Parts	Practical work	Practical exam
4	2	Computer Components: I/O Units, Memory Types	Practical work	Practical exam

<b>Practical/clinical part</b>				
<b>Week</b>	<b>Hours</b>	<b>Laboratory Subject name</b>	<b>Learning method</b>	<b>Evaluation method</b>
5	2	Computer Components: Basic CPU Components, Computer Ports	Practical work	Practical exam
6	2	Computer Components: Personal Computer, Personal Computer (Features and Types)	Practical work	Practical exam
7	2	Operating System and Graphical User Interface GUI: Operating System, Basic of Common Operating System	Practical work	Practical exam
8	2	Operating System and Graphical User Interface GUI: The User Interface, Using Mouse Techniques, Use of Common Icons	Practical work	Practical exam
9	2	Operating System and Graphical User Interface GUI: Status Bar, Using Menu and Menu-selection	Practical work	Practical exam
10	2	Operating System and Graphical User Interface GUI: Concept of Folders and Directories, Opening and Closing of different Windows, Creating Short cuts	Practical work	Practical exam
11	2	Word Processing: Word Processing Basics, Opening and Closing of documents	Practical work	Practical exam
12	2	Word Processing: Text Creation and Manipulation, Formatting of Text	Practical work	Practical exam
13	2	Word Processing: Table handling, Spell check	Practical work	Practical exam
14	2	Word Processing: language setting and thesaurus, Printing of word document	Practical work	Practical exam
15	2	Spread Sheet: Basics of Spreadsheet	Practical work	Practical exam
16	2	Spread Sheet: Manipulation of cells	Practical work	Practical exam
17	2	Spread Sheet: Formulas and Functions	Practical work	Practical exam

<b>Practical/clinical part</b>				
<b>Week</b>	<b>Hours</b>	<b>Laboratory Subject name</b>	<b>Learning method</b>	<b>Evaluation method</b>
18	2	Spread Sheet: Editing of Spread Sheet, printing of Spread Sheet	Practical work	Practical exam
19	2	Presentation Software: Basics of presentation software	Practical work	Practical exam
20	2	Presentation Software: Creating Presentation	Practical work	Practical exam
21	2	Presentation Software: Presentation and Presentation of Slides	Practical work	Practical exam
22	2	Presentation Software: Slide Show, Taking printouts of presentation / handouts	Practical work	Practical exam
23	2	Introduction to Internet and Web Browsers: Computer networks Basic, LAN, WAN, Concept of Internet and its Applications	Practical work	Practical exam
24	2	Introduction to Internet and Web Browsers: connecting to internet, World Wide Web, Web Browsing software 's, Search Engines, Understanding URL, Domain name, IP Address	Practical work	Practical exam
25	2	Communications and Emails: Basics of electronic mail, Getting an email account	Practical work	Practical exam
26	2	Communication and Emails: Sending and receiving emails	Practical work	Practical exam
27	2	Communications and Emails: Accessing sent emails	Practical work	Practical exam
28	2	Communications and Emails: Using Emails, Document collaboration	Practical work	Practical exam
29	2	Computer Troubleshooting: Identifying and solving common hardware and software problems that computer users encounter	Practical work	Practical exam
30	2	Computer Troubleshooting: Basic troubleshooting techniques and tools for diagnosing and resolving issues	Practical work	Practical exam

## 11. Course Evaluation

Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc 5 marks for the first course, distributed among subjects, daily preparation, and attendance.

5 marks for the second course, distributed among subjects, daily preparation, and attendance.

10 marks for a mid-year practical exam. 20 marks mid-year theoretical exam.

60 marks for a final theoretical exam

## 12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Principles of computers – Volume 1 Volume2 and Volume 3
Main references (sources)	<ul style="list-style-type: none"><li>• Cambridge IGCSE Information and Communication Technology, 3<sup>rd</sup> Edition 2020</li><li>• Technology In Action Complete 16<sup>th</sup> Edition 2020</li></ul>
Recommended books and references (scientific journals, reports...)	Computer Basics, Al-Khidr Ali Al-Khidr
Electronic References, Websites	Internet Resources and Links Educational Videos Published on the College's Website
Percentage of course update	5%

Name and signature of the course administrator	Name and signature of Head of the Department
<b>Name: Professor Dr. Faris Ghanem Ahmed</b>	<b>Prof. Dr. Ghada Abd- Alrahman Taqa</b>

## Course Description Form

<b>1. Course Name:</b>	
Medical Chemistry	
<b>2. Course Code:</b>	
1263 MC	
<b>3. Semester / Year:</b>	
First and second semesters – 2025-2026	
<b>4. Description Preparation Date:</b>	
3-12-2025	
<b>5. Available Attendance Forms:</b>	
Theory and practical	
<b>6. Number of Credit Hours () / Number of Units ():</b>	
Number of hours: 60 hour theory + 60 hours practical Number of Units: 6 units	
<b>7. Course administrator's name (mention all, if more than one name)</b>	
Name: Ammar Abdulghani Qasim    Email: <a href="mailto:drammar@uomosul.edu.iq">drammar@uomosul.edu.iq</a> Nagham Salim Butrus, Mayada Mahmood Ali, Omar Taha Mehemed	
<b>8. Course Objectives</b>	
<b>Course Objectives</b>	Enabling the student to acquire theoretical knowledge of medical chemistry and the pivotal and fundamental role of chemistry in dentistry and its modern applications
<b>9. Teaching and Learning Strategies</b>	
<b>Strategy</b>	Access to the Fundamentals of organic and inorganic branches of the chemistry

<b>10. Course Structure</b>					
<b>Theory part</b>					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2	Pollution in Dentistry Part I	Pollution in Dentistry Part I	Theory lectures	Paper exam
2	2	Pollution in Dentistry Part II	Pollution in Dentistry Part II	Theory lectures	Paper exam
3	2	Reactions Preparation; Alkanes	Reactions Preparation; Alkanes	Theory lectures	Paper exam

<b>10. Course Structure</b>					
<b>Theory part</b>					
<b>Week</b>	<b>Hours</b>	<b>Required Learning Outcomes</b>	<b>Unit or subject name</b>	<b>Learning method</b>	<b>Evaluation method</b>
4	2	Reactions Preparation; Alkenes	Reactions Preparation; Alkenes	Theory lectures	Paper exam
5	2	Reactions Preparation; Alkynes	Reactions Preparation; Alkynes	Theory lectures	Paper exam
6	2	Reactions Preparation; Aromatic	Reactions Preparation; Aromatic	Theory lectures	Paper exam
7	2	Reactions Preparation;Alcohols	Reactions Preparation;Alcohols	Theory lectures	Paper exam
8	2	Reactions Preparation;Phenols	Reactions Preparation;Phenols	Theory lectures	Paper exam
9	2	Acid, Base and Salts	Acid, Base and Salts	Theory lectures	Paper exam
10	2	Boold PH	Boold PH	Theory lectures	Paper exam
11	2	Carboxylic Acids Part I	Carboxylic Acids Part I	Theory lectures	Paper exam
12	2	Carboxylic Acids Part II	Carboxylic Acids Part II	Theory lectures	Paper exam
13	2	Reaction and Reagents	Reaction and Reagents	Theory lectures	Paper exam
14	2	Solutions Part I	Solutions Part I	Theory lectures	Paper exam
15	2	Solutions Part II	Solutions Part II	Theory lectures	Paper exam
16	2	Solutions Part III	Solutions Part III	Theory lectures	Paper exam
17	2	Coordination ChemistryPart I	Coordination ChemistryPart I	Theory lectures	Paper exam
18	2	Coordination ChemistryPart II	Coordination Chemistry Part II	Theory lectures	Paper exam
19	2	The Chemistry of teeth	The Chemistry of teeth	Theory lectures	Paper exam
20	2	Dental Chemistry	Dental Chemistry	Theory lectures	Paper exam

<b>10. Course Structure</b>					
<b>Theory part</b>					
<b>Week</b>	<b>Hours</b>	<b>Required Learning Outcomes</b>	<b>Unit or subject name</b>	<b>Learning method</b>	<b>Evaluation method</b>
21	2	Polymers Part I	Polymers Part I	Theory lectures	Paper exam
22	2	Polymers Part II	Polymers Part II	Theory lectures	Paper exam
23	2	Carbohydrates Part I	Carbohydrates Part I	Theory lectures	Paper exam
24	2	Carbohydrates Part II	Carbohydrates Part II	Theory lectures	Paper exam
25	2	Amino Acids Part I	Amino Acids Part I	Theory lectures	Paper exam
26	2	Amino Acids Part II	Amino Acids Part II	Theory lectures	Paper exam
27	2	Protein Part I	Protein Part I	Theory lectures	Paper exam
28	2	Protein Part II	Protein Part II	Theory lectures	Paper exam
29	2	Lipids Part I	Lipids Part I	Theory lectures	Paper exam
30	2	Lipids Part II	Lipids Part II	Theory lectures	Paper exam

<b>Practical/clinical part</b>				
<b>Week</b>	<b>Hours</b>	<b>Laboratory Subject name</b>	<b>Learning method</b>	<b>Evaluation method</b>
1	2	Safety laboratory Part I	Lab Practical	Theory and Practical Exam
2	2	Safety laboratory Part II	Lab Practical	Theory and Practical Exam
3	2	Solubility	Lab Practical	Theory and Practical Exam
4	2	Reaction of Hydrocarbons Part I	Lab Practical	Theory and Practical Exam
5	2	Reaction of Hydrocarbons Part II	Lab Practical	Theory and Practical Exam
6	2	Reaction of Alcohols Part I	Lab Practical	Theory and Practical Exam

<b>Practical/clinical part</b>				
<b>Week</b>	<b>Hours</b>	<b>Laboratory Subject name</b>	<b>Learning method</b>	<b>Evaluation method</b>
7	2	Reaction of Alcohols Part II	Lab Practical	Theory and Practical Exam
8	2	Acid Base Ionization , PH	Lab Practical	Theory and Practical Exam
9	2	Titration	Lab Practical	Theory and Practical Exam
10	2	Reaction of Phenols	Lab Practical	Theory and Practical Exam
11	2	Aspirin Synthesis Part I	Lab Practical	Theory and Practical Exam
12	2	Aspirin Synthesis Part II	Lab Practical	Theory and Practical Exam
13	2	Reaction of Carboxylic Acids Part I	Lab Practical	Theory and Practical Exam
14	2	Reaction of Carboxylic Acids Part II	Lab Practical	Theory and Practical Exam
15	2	Reaction of Carboxylic Acids Part III	Lab Practical	Theory and Practical Exam
16	2	Eugol Extraction	Lab Practical	Theory and Practical Exam
17	2	Synthesis Cuper Complex	Lab Practical	Theory and Practical Exam
18	2	Carbohydrates	Lab Practical	Theory and Practical Exam
19	2	Carbohydrates Mono Saccharides	Lab Practical	Theory and Practical Exam
20	2	Carbohydrates Di Saccharides	Lab Practical	Theory and Practical Exam
21	2	Carbohydrates poly Saccharides	Lab Practical	Theory and Practical Exam
22	2	Amino Acids Part I	Lab Practical	Theory and Practical Exam
23	2	Amino Acids Part II	Lab Practical	Theory and Practical Exam
24	2	Amino Acids Part III	Lab Practical	Theory and Practical Exam

<b>Practical/clinical part</b>				
<b>Week</b>	<b>Hours</b>	<b>Laboratory Subject name</b>	<b>Learning method</b>	<b>Evaluation method</b>
25	2	Proteins Part I	Lab Practical	Theory and Practical Exam
26	2	Proteins Part II	Lab Practical	Theory and Practical Exam
27	2	Proteins Part III	Lab Practical	Theory and Practical Exam
28	2	Proteins Part IV	Lab Practical	Theory and Practical Exam
29	2	Lipids Part I	Lab Practical	Theory and Practical Exam
30	2	Lipids Part II	Lab Practical	Theory and Practical Exam

### **11. Course Evaluation**

Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc

### **12. Learning and Teaching Resources**

Required textbooks (curricular books, if any)	-----
Main references (sources)	Basic Chemistry for Students of Medicine and Biology
Recommended books and references (scientific journals, reports...)	Medical Chemistry
Electronic References, Websites	-----
Percentage of course update	5%

Name and signature of the course administrator	Name and signature of Head of the Department
<b>Assist Prof. Dr. Ammar Abdulghani</b>	<b>Prof. Dr. Ghada A. Taqa</b>

## Course Description Form

<b>1. Course Name:</b>	
Medical Biology	
<b>2. Course Code:</b>	
1264 MBIO	
<b>3. Semester / Year:</b>	
First year – first and second semester – 2025-2026	
<b>4. Description Preparation Date:</b>	
15/10/2025	
<b>5. Available Attendance Forms:</b>	
Theoretical and practical	
<b>6. Number of Credit Hours (Total) / Number of Units (Total)</b>	
Theoretical: 60 hours, practical: 60 hours. Total units: 6	
<b>7. Course administrator's name (mention all, if more than one name)</b>	
Lect Dr Khansaa Azeez	<a href="mailto:khansaaazeez98@uomosul.edu.iq">khansaaazeez98@uomosul.edu.iq</a>
Lect Dr Ban Nazar	<a href="mailto:bannazara@uomosul.edu.iq">bannazara@uomosul.edu.iq</a>
Lect Saba Moaed	<a href="mailto:sabamoaed@uomosul.edu.iq">sabamoaed@uomosul.edu.iq</a>
<b>8. Course Objectives</b>	
<b>Course Objectives</b>	<ul style="list-style-type: none"> <li>- To enable the student to acquire theoretical knowledge of medical parasitology and gain fundamental scientific understanding.</li> <li>- To understand the impact of parasitic infections on human health and to identify the symptoms and diseases resulting from these infections.</li> <li>- To learn how to manage and prevent parasitic infections.</li> </ul>
<b>9. Teaching and Learning Strategies</b>	
<b>Strategy</b>	<ul style="list-style-type: none"> <li>- Using interactive whiteboards as advanced teaching tools</li> <li>- Delivering theoretical lessons</li> <li>- Extracurricular activities</li> <li>- Group discussions</li> </ul>

	<ul style="list-style-type: none"> <li>- Developing curricula according to international competitive standards</li> <li>- Adopting modern teaching methods that enhance the teaching and learning process and develop critical thinking</li> </ul>
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<b>10. Course Structure</b>					
<b>Theory part</b>					
<b>Week</b>	<b>Hours</b>	<b>Required Learning Outcomes</b>	<b>Unit or subject name</b>	<b>Learning method</b>	<b>Evaluation method</b>
1	2	The student should understand the fundamentals of life sciences, especially parasitology, types of parasites, and types of hosts.	Introduction of Parasitology	- Delivering a theoretical lecture in the classroom. - Uploading the lecture to the online	Theoretical tests
2	2	Components of an animal cell	The Cell	- Uploading the lecture to the online classroom.	Theoretical tests
3	2	Components of an animal cell(1)	Cell structure(1)	- Downloading an electronic link to lectures related to the topic.	Theoretical tests
4	2	Components of an animal cell(2)	Cell structure(2)	- Delivering a theoretical lecture in the classroom.	Theoretical tests
5	2	Giardia parasite life cycle, symptoms, and pathogenesis	Giardia lambilia	- Uploading the lecture to the online classroom.	Theoretical tests
6	2	Components of an animal cell(3)	Cell structure(3)	- Downloading	Theoretical tests

10. Course Structure					
Theory part					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
				an electronic link to lectures related to the topic.	
7	2	Leishmania parasite: life cycle, symptoms, and pathogenesis	Leishmania spp.	- Delivering a theoretical lecture in the classroom.	Theoretical tests
8	2	Components of the cell membrane and types of transport between the cell membrane and its surroundings	Cell membrane	- Uploading the lecture to the online classroom.	Theoretical tests
9	2	Trypanosoma parasite: life cycle, symptoms, and pathogenesis	Trypanosoma spp.	- Downloading an electronic link to lectures related to the topic.	Theoretical tests
10	2	The cell cycle, meiosis, and mitosis	Cell cycle	- Delivering a theoretical lecture in the classroom.	Theoretical tests
11	2	Schistosoma parasite, the cause of schistosomiasis: life cycle, symptoms, and pathogenesis	Schistosoma spp.	- Uploading the lecture to the online classroom.	Theoretical tests
12	2	Stages of cell division	cell division	- Downloading an electronic link to lectures	Theoretical tests

<b>10. Course Structure</b>					
<b>Theory part</b>					
<b>Week</b>	<b>Hours</b>	<b>Required Learning Outcomes</b>	<b>Unit or subject name</b>	<b>Learning method</b>	<b>Evaluation method</b>
				related to the topic.	
13	2	Study of DNA genetic material and its structure	Genetics	- Delivering a theoretical lecture in the classroom.	Theoretical tests
14	2	Ascaris parasite: life cycle, symptoms, and pathogenesis	. Ascaris lumbricoids	- Uploading the lecture to the online classroom.	Theoretical tests
15	2	Epithelial tissue: types, location, and function	Epithelial tissues	- Downloading an electronic link to lectures related to the topic.	Theoretical tests
16	2	Connective tissue types, location, and function	Connective tissues	- Delivering a theoretical lecture in the classroom.	Theoretical tests
17	2	Epithelial glands: their types, location, and function	Glands	- Uploading the lecture to the online classroom.	Theoretical tests
18	2	Cartilage: its types, locations, functions of each type, and the structure of the cartilage cell.	Cartilage	- Downloading an electronic link to lectures related to the topic.	Theoretical tests
19	2	Bone tissue: types, locations, functions, and bone cell structure	bone	- Delivering a theoretical lecture in the classroom.	Theoretical tests

<b>10. Course Structure</b>					
<b>Theory part</b>					
<b>Week</b>	<b>Hours</b>	<b>Required Learning Outcomes</b>	<b>Unit or subject name</b>	<b>Learning method</b>	<b>Evaluation method</b>
20	2	Muscle tissue: types, locations, functions, and structure of the muscle cell.	Muscular tissues	- Uploading the lecture to the online classroom.	Theoretical tests
21	2	Nervous tissue: types, locations, functions, and structure of nerve cells	Nerves tissues	- Downloading an electronic link to lectures related to the topic.	Theoretical tests
22	2	Blood tissue, blood components and function	Blood tissue	- Delivering a theoretical lecture in the classroom.	Theoretical tests

<b>Practical/clinical part</b>					
<b>Week</b>	<b>Hours</b>	<b>Laboratory Subject name</b>	<b>Learning method</b>	<b>Evaluation method</b>	
1	2	Microscopes Types	Delivering a practical lecture in the lab - Downloading the lecture to the online classroom	Practical tests	
2	2	Entamoeba spp.	Delivering a practical lecture in the lab - Downloading the lecture to the online classroom	Practical tests	
3	2	Giardia lamblia, Trichomonas spp.	Delivering a practical lecture in the lab - Downloading the lecture to the online classroom	Practical tests	
4	2	Balantidium	Delivering a practical lecture in the lab - Downloading the lecture to the online classroom	Practical tests	
5	2	Plasmodium spp.	Delivering a practical lecture in the lab - Downloading the lecture to the online classroom	Practical tests	

<b>Practical/clinical part</b>				
<b>Week</b>	<b>Hours</b>	<b>Laboratory Subject name</b>	<b>Learning method</b>	<b>Evaluation method</b>
6	2	Fasciola hepatica	Delivering a practical lecture in the lab - Downloading the lecture to the online classroom	Practical tests
7	2	Schistosoma spp.	Delivering a practical lecture in the lab - Downloading the lecture to the online classroom	Practical tests
8	2	. Teania spp	Delivering a practical lecture in the lab - Downloading the lecture to the online classroom	Practical tests
9	2	Echinococcus granulosus	Delivering a practical lecture in the lab - Downloading the lecture to the online classroom	Practical tests
10	2	Epithelial tissues	Delivering a practical lecture in the lab - Downloading the lecture to the online classroom	Practical tests
11	2	Glands	Delivering a practical lecture in the lab - Downloading the lecture to the online classroom	Practical tests
12	2	Connective tissues	Delivering a practical lecture in the lab - Downloading the lecture to the online classroom	Practical tests
13	2	Blood	Delivering a practical lecture in the lab - Downloading the lecture to the online classroom	Practical tests
14	2	Cartilage	Delivering a practical lecture in the lab - Downloading the lecture to the online classroom	Practical tests
15	2	Bone	Delivering a practical lecture in the lab - Downloading the lecture to the online classroom	Practical tests
16	2	Muscular tissues	Delivering a practical lecture in the lab - Downloading the lecture to the online classroom	Practical tests

<b>Practical/clinical part</b>				
<b>Week</b>	<b>Hours</b>	<b>Laboratory Subject name</b>	<b>Learning method</b>	<b>Evaluation method</b>
17	2	Nerves tissues	Delivering a practical lecture in the lab - Downloading the lecture to the online classroom	Practical tests

### **11. Course Evaluation**

The grade out of 100 is distributed according to the tasks assigned to the student, such as daily preparation, daily, oral, monthly, and written exams, reports, etc.  
 5 marks for the first course, distributed among quizzes, daily preparation, and attendance.  
 5 marks for the second course, distributed among quizzes, daily preparation, and attendance.  
 10 marks for practical semester work. - 30 marks for theoretical semester work.  
 20 marks for the final practical exam. - 40 marks for the final theoretical exam.

### **12. Learning and Teaching Resources**

Required textbooks (curricular books, if any)	Panikers Textbook of Medical Parasitolog
Main references (sources)	-Introduction of parasitology - Practical Exercises in Parasitology -Foundation of Parasitology
Recommended books and references (scientific journals, reports...)	Medical Parasitology: A Body System Approach Advances in Parasitology -
Electronic References, Websites	Internet sources and links, in addition to educational videos published on the college website.
Percentage of course update	5%

Name and signature of the course administrator	Name and signature of Head of the Department
<b>Lect Dr Khansaa AzeezYonis</b>	<b>Prof Dr Gada AbdalRahman Taqa</b>

## Course Description Form

<b>1. Course Name:</b>	
Dental Anatomy	
<b>2. Course Code:</b>	
1265 DENA	
<b>3. Semester / Year:</b>	
First year – first and second semester – 2025-2026	
<b>4. Description Preparation Date:</b>	
1-12-2025	
<b>5. Available Attendance Forms:</b>	
Theoretical and practical	
<b>6. Number of Credit Hours (Total) / Number of Units (Total)</b>	
Theoretical: 60 hours, practical: 60 hours. Total units: 6	
<b>7. Course administrator's name (mention all, if more than one name)</b>	
Name: Assistant Prof Nadia Mudhafar Email: <a href="mailto:nadia.mudhafar@uomosul.edu.iq">nadia.mudhafar@uomosul.edu.iq</a>	
<b>8. Course Objectives</b>	
<b>Course Objectives</b>	<ul style="list-style-type: none"> <li>- Gain a comprehensive understanding of the anatomical landmarks and classification of permanent teeth, including incisors, canines, premolars, and molars.</li> <li>- Identify and effectively utilize various numbering systems for teeth within dental practice.</li> <li>- Acquire skills in carving various dental aspects (labial, mesial, incisal, buccal, and occlusal) for different types of teeth, with an emphasis on precision and detail.</li> <li>- Demonstrate competency in practical carving exercises, ending in practical exams and assessments for different tooth types.</li> <li>- Explain the processes of tooth development and the significance of pulp cavities in dental anatomy.</li> <li>- Comprehend the physiological forms of teeth and their roles within the periodontium, focusing on occlusion.</li> </ul>

## 9. Teaching and Learning Strategies

<b>Strategy</b>	<ul style="list-style-type: none"> <li>- Interactive Lectures: Utilize engaging lectures to introduce dental anatomy concepts and carving techniques, supported by visual aids and models.</li> <li>- Conduct practical demonstrations for carving exercises, allowing students to observe and replicate techniques in real-time.</li> <li>- Encourage collaborative learning in carving exercises, allowing students to share techniques and provide constructive feedback to one another.</li> <li>- Regular Practical Assessments: Implement frequent assessments and exams to evaluate students' carving skills, ensuring mastery of techniques and providing opportunities for improvement.</li> <li>- Incorporate videos and interactive presentations that illustrate tooth anatomy and carving processes, enhancing visual understanding and learning.</li> <li>- Final Evaluations: Conduct comprehensive oral and practical examinations to assess overall competency in tooth carving and anatomical understanding.</li> </ul>
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## 10. Course Structure

Theory part					
Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2	Introduction	Dental Anatomy	Power point presentations with educational videos via smart board	Quiz, mid and final exams
2	2	Introduction	Dental Anatomy	Power point presentations with educational videos via smart board	Quiz, mid and final exams

**10. Course Structure****Theory part**

<b>Week</b>	<b>Hr</b>	<b>Required Learning Outcomes</b>	<b>Unit or subject name</b>	<b>Learning method</b>	<b>Evaluation method</b>
3	2	Numbering Systems	Dental Anatomy	Power point presentations with educational videos via smart board	Quiz, mid and final exams
4	2	Numbering Systems	Dental Anatomy	Power point presentations with educational videos via smart board	Quiz, mid and final exams
5	2	Anatomical Landmarks	Dental Anatomy	Power point presentations with educational videos via smart board	Quiz, mid and final exams
6	2	Anatomical Landmarks	Dental Anatomy	Power point presentations with educational videos via smart board	Quiz, mid and final exams
7	2	Permanent Maxillary Central Incisor	Dental Anatomy	Power point presentations with educational videos via smart board	Quiz, mid and final exams
8	2	Permanent Maxillary Central Incisor	Dental Anatomy	Power point presentations with educational videos via smart board	Quiz, mid and final exams
9	2	Permanent Maxillary Lateral Incisor	Dental Anatomy	Power point presentations with educational videos via smart board	Quiz, mid and final exams
10	2	Permanent Maxillary Lateral Incisor	Dental Anatomy	Power point presentations with educational videos via smart board	Quiz, mid and final exams

**10. Course Structure****Theory part**

<b>Week</b>	<b>Hr</b>	<b>Required Learning Outcomes</b>	<b>Unit or subject name</b>	<b>Learning method</b>	<b>Evaluation method</b>
11	2	Permanent Mandibular Incisors	Dental Anatomy	Power point presentations with educational videos via smart board	Quiz, mid and final exams
12	2	Permanent Mandibular Incisors	Dental Anatomy	Power point presentations with educational videos via smart board	Quiz, mid and final exams
13	2	Permanent Mandibular Incisors	Dental Anatomy	Power point presentations with educational videos via smart board	Quiz, Seminars, mid and final exams
14	2	Permanent Canines	Dental Anatomy	Power point presentations with educational videos via smart board	Quiz, mid and final exams
15	2	Permanent Canines	Dental Anatomy	Power point presentations with educational videos via smart board	Quiz, mid and final exams
16	2	Permanent Maxillary Premolars	Dental Anatomy	Power point presentations with educational videos via smart board	Quiz, mid and final exams
17	2	Permanent Maxillary Premolars	Dental Anatomy	Power point presentations with educational videos via smart board	Quiz, mid and final exams
18	2	Permanent Mandibular First Premolars	Dental Anatomy	Power point presentations with educational videos via smart board	Quiz, mid and final exams

## 10. Course Structure

### Theory part

Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
19	2	Permanent Mandibular First Premolars	Dental Anatomy	Power point presentations with educational videos via smart board	Quiz, mid and final exams
20	2	Permanent Mandibular Second Premolar	Dental Anatomy	Power point presentations with educational videos via smart board	Quiz, mid and final exams
21	2	Permanent Maxillary First Molar Permanent maxillary second and third molars	Dental Anatomy	Power point presentations with educational videos via smart board	Quiz, mid and final exams
22	2	Permanent Maxillary First Molar Permanent maxillary second and third molars	Dental Anatomy	Power point presentations with educational videos via smart board	Quiz, mid and final exams
23	2	Permanent Mandibular First Molar	Dental Anatomy	Power point presentations with educational videos via smart board	Quiz, mid and final exams
24	2	Permanent Mandibular Second and third Molars	Dental Anatomy	Power point presentations with educational videos via smart board	Quiz, mid and final exams
25	2	Tooth Development	Dental Anatomy	Power point presentations with educational videos via smart board	Quiz, mid and final exams

10. Course Structure					
Theory part					
Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
26	2	Tooth Development	Dental Anatomy	Power point presentations with educational videos via smart board	Quiz, mid and final exams
27	2	Pulp Cavities	Dental Anatomy	Power point presentations with educational videos via smart board	Quiz, mid and final exams
28	2	Pulp Cavities	Dental Anatomy	Power point presentations with educational videos via smart board	Quiz, mid and final exams
29	2	Occlusion and physiologic form of teeth and periodontium	Dental Anatomy	Power point presentations with educational videos via smart board	Quiz, mid and final exams
30	2	Occlusion and physiologic form of teeth and periodontium	Dental Anatomy	Power point presentations with educational videos via smart board	Quiz, mid and final examsz

Practical part				
Week	Hr	Laboratory subject	Learning method	Evaluation method
1	2	Introduction to Dental Anatomy & Carving Instruments	Demo on (wax or plaster) block and smart monitor	Practical exam
2	2	Numbering systems.	Demo on (wax or plaster) block and smart monitor	Practical exam
3	2	Practical demonstration of Carving a Cube (1cm*1cm*1cm)	Demo on (wax or plaster) block and smart monitor	Practical exam

<b>Practical part</b>				
<b>Week</b>	<b>Hr</b>	<b>Laboratory subject</b>	<b>Learning method</b>	<b>Evaluation method</b>
4	2	<ul style="list-style-type: none"> <li>▪ Introduction to Anatomical landmarks on Teeth models.</li> </ul> Carving of a cube.	Demo on (wax or plaster) block and smart monitor	Practical exam
5	2	Description & Carving of the Labial Aspect of P. Max. Right Central Incisor.	Demo on (wax or plaster) block and smart monitor	Practical exam
6	2	Description & Carving of the Mesial aspect of P. Max. Right Central Incisor.	Demo on (wax or plaster) block and smart monitor	Practical exam
7	2	Description, Carving & Finishing of the Incisal Aspect of Permanent Max. Right Central Incisor.	Demo on (wax or plaster) block and smart monitor	Practical exam
8	2	Practical Training for Carving of P. Max. Right Central Incisor	Demo on (wax or plaster) block and smart monitor	Practical exam
9	2	Practical Exam. Of Carving of P. Max. Right Central Incisor	Demo on (wax or plaster) block and smart monitor	Practical exam
10	2	Description & Carving of the Labial & Mesial Aspects of P. Max. Right Canine.	Demo on (wax or plaster) block and smart monitor	Practical exam
11	2	Description, Carving & Finishing of the Incisal Aspect of P Max. Right Canine.	Demo on (wax or plaster) block and smart monitor	Practical exam
12	2	Practical Training for Carving of P. Max. Right Canine.	Demo on (wax or plaster) block and smart monitor	Practical exam
13	2	Practical Exam. of Carving of P. Max. Right Canine.	Demo on (wax or plaster) block and smart monitor	Practical exam
14	2	Mid-Year Practical Examination of Tooth Carving.	Demo on (wax or plaster) block and smart monitor	Practical exam
15	2	Description & Carving of the Buccal & Mesial Aspects of P.Max. Right 1st Premolar.	Demo on (wax or plaster) block and smart monitor	Practical exam
16	2	Description, Carving & Finishing of the Occlusal Aspect of P.Max. Right 1st Premolar.	Demo on (wax or plaster) block and smart monitor	Practical exam
17	2	Practical Training for Carving of P. Max. Right 1st Premola	Demo on (wax or plaster) block and smart monitor	Practical exam

<b>Practical part</b>				
<b>Week</b>	<b>Hr</b>	<b>Laboratory subject</b>	<b>Learning method</b>	<b>Evaluation method</b>
18	2	Practical Exam. Of Carving of P. Max. Right 1st Premolar	Demo on (wax or plaster) block and smart monitor	Practical exam
19	2	Description & Carving of the Buccal & Mesial Aspects of P.Mand. Right 1st Premolar.	Demo on (wax or plaster) block and smart monitor	Practical exam
20	2	Description, Carving & Finishing of the Occlusal Aspect of P.Mand. Right 1st Premolar.	Demo on (wax or plaster) block and smart monitor	Practical exam
21	2	Practical Training for Carving of P. Mand. Right 1st Premolar	Demo on (wax or plaster) block and smart monitor	Practical exam
22	2	Practical Exam. Of Carving of P. Mand. Right 1st Premolar	Demo on (wax or plaster) block and smart monitor	Practical exam
23	2	Description & Carving of the Buccal & Mesial Aspects of P. Max.Right 1st Molar	Demo on (wax or plaster) block and smart monitor	Practical exam
24	2	Description, Carving & Finishing of the Occlusal Aspect of P. Max. Right 1st Molar.	Demo on (wax or plaster) block and smart monitor	Practical exam
25	2	Practical Training of Carving of P. Max. Right 1st molar.	Demo on (wax or plaster) block and smart monitor	Practical exam
26	2	Practical Exam. of Carving of P. Max. Right 1st molar.	Demo on (wax or plaster) block and smart monitor	Practical exam
27	2	Description & Carving of the Buccal & Mesial Aspects of P. Mand. Right 1st Molar	Demo on (wax or plaster) block and smart monitor	Practical exam
28	2	Description, Carving & Finishing of the Occlusal aspect of P.Mand 1st Molar / Practical Training of Carving P. Mand 1st molar.	Demo on (wax or plaster) block and smart monitor	Practical exam
29	2	Practical Examination of Carving of P. Mand. Right 1st molar	Demo on (wax or plaster) block and smart monitor	Practical exam
30	2	Final Oral & Practical Examination of Tooth Carving	Demo on (wax or plaster) block and smart monitor	Practical exam

### 11. Course Evaluation

Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc

20 marks practical requirements.

10 marks midyear practical exam. - 10 marks midyear theoretical exam.

25 marks final practical exam - 35 marks final theoretical exam

### 12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	<ul style="list-style-type: none"><li>Wheeler's Dental Anatomy, Physiology and Occlusion - Edition 11 - By Stanley J. Nelson.</li><li>Wheeler's Atlas of Tooth Form by Major M. Ash Jr</li></ul>
Main references (sources)	
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	
Percentage of course update	5%

Name and signature the Course Administrator	Name and signature the Head of the Department
<b>Assistant Prof Nadia Mudhafar</b>	<b>Assistant Prof Alaa Idris Dawood</b>

## Course Description Form

<b>1. Course Name:</b>	
Human Rights and Democracy	
<b>2. Course Code:</b>	
1266 HRD	
<b>3. Semester / Year:</b>	
First year – first and second semester – 2025-2026	
<b>4. Description Preparation Date:</b>	
15/10/2025	
<b>5. Available Attendance Forms:</b>	
Theoretical and practical	
<b>6. Number of Credit Hours (Total) / Number of Units (Total)</b>	
Theoretical: 30 hours. Total units: 2	
<b>7. Course administrator's name (mention all, if more than one name)</b>	
Name: Assistant Professor Dr Ali Adnan Alfeel Email: <a href="mailto:alialfeel1969@uomosul.edu.iq">alialfeel1969@uomosul.edu.iq</a>	
<b>8. Course Objectives</b>	
<b>Course Objectives</b>	<ul style="list-style-type: none"> <li>- Introduction to principles of Human rights.</li> <li>- Study of modern democracy.</li> <li>- Introduction to Human rights.</li> </ul>
<b>9. Teaching and Learning Strategies</b>	
<b>Strategy</b>	<ul style="list-style-type: none"> <li>- Theory lectures.</li> <li>- Educational videos and utilization of smart boards.</li> <li>- Focused student group discussion</li> </ul>

<b>10. Course Structure</b>					
<b>Theory part</b>					
Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	1	Introduction Chapter One: Human Rights	Human Rights	Theory lectures	Theory exam

## 10. Course Structure

### Theory part

Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
		Human rights in ancient civilizations, human rights in Greek and Egyptian civilizations, human rights in ancient civilizations			
2	1	Chapter Two: Human rights in divine laws and religions Human rights in the Christian and Jewish religions, human rights in Islam	Human Rights	Theory lectures	Theory exam
3	1	Chapter Three: Sources of human rights International sources. The Universal Declaration of Human Rights	Sources of human rights	Theory lectures	Theory exam
4	1	The two international covenants on human rights	Sources of human rights	Theory lectures	Theory exam
5	1	National sources The first demand: The French Declaration of the Rights of Man and the Citizen (August 26, 1789)	Sources of human rights	Theory lectures	Theory exam
6	1	The French constitutions and declarations that followed the Declaration of Rights of 1789	Sources of human rights	Theory lectures	Theory exam
7	1	The Constitution of the Republic of Iraq of 2005	Sources of human rights	Theory lectures	Theory exam
8	1	Chapter Four: Human Rights Guarantees Human rights guarantees at the internal level, constitutional guarantees	Sources of human rights	Theory lectures	Theory exam

## 10. Course Structure

### Theory part

Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
9	1	Judicial guarantees	Sources of human rights	Theory lectures	Theory exam
10	1	Human rights guarantees in Islam, Approval of the principle of dual responsibility in Islamic society, the religious character of Islamic law.	Sources of human rights	Theory lectures	Theory exam
11	1	Some Islamic systems are for the benefit of the individual, the group, and the ruling authorities	Sources of human rights	Theory lectures	Theory exam
12	1	Human rights guarantees at the international level The Charter of the United Nations United Nations General Assembly	Sources of human rights	Theory lectures	Theory exam
13	1	The Economic and Social Council Human Rights Council	Sources of human rights	Theory lectures	Theory exam
14	1	The role of regional organizations in protecting human rights, the European Convention on Human Rights		Theory lectures	Theory exam
15	1	The American Convention on Human Rights The African Charter on Human and Peoples' Rights The Arab Charter on Human Rights Chapter Five: The future of human rights Technological progress and its impact on rights and freedoms, human rights and public freedoms	Sources of human rights	Theory lectures	Theory exam

## 10. Course Structure

### Theory part

Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
16	1	Political parties and human rights The role of media and education Globalization and human rights Privacy and human rights Hegemony and human rights	The future of human rights	Theory lectures	Theory exam
17	1	Chapter One: The concept of democracy, its development, definition and dimensions	Democracy	Theory lectures	Theory exam
18	1	The roots of the concept of democracy and its development	Democracy	Theory lectures	Theory exam
19	1	Definition of democracy	Democracy	Theory lectures	Theory exam
20	1	Democracy between universality and specificity.	Forms of Democracy	Theory lectures	Theory exam
21	1	Chapter Two: Forms of Democracy, Direct Democracy, Content of Direct Democracy Applications of Direct Democracy, Appreciation of the System of Direct Democracy	Forms of Democracy	Theory lectures	Theory exam
22	1	The semi-direct democracy, the concept of semi-direct democracy, aspects of semi-direct democracy	Forms of Democracy	Theory lectures	Theory exam
23	1	Appreciating the system of semi-direct democracy, representative democracy	Forms of Democracy	Theory lectures	Theory exam
24	1	The concept of the representative system and its legal nature The pillars of the representative system	The representative system	Theory lectures	Theory exam
25	1	The problem of the representative parliamentary system	The representative system	Theory lectures	Theory exam

## 10. Course Structure

### Theory part

Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
26	1	The Parliament The one-house parliament system and the two-chamber system. The internal organization of the House of Representatives	The Parliament	Theory lectures	Theory exam
27	1	Chapter Three: The mechanism of the representative system Elections The concept of election and its legal adaptation The concept of election The legal adaptation of the election, the electorate, the concept of the electorate. The composition of the electorate	Elections	Theory lectures	Theory exam
28	1	Candidates for election, organizing the election process, defining electoral districts, electoral districts, candidates.	Elections	Theory lectures	Theory exam
29	1	The electoral campaign, voting Organizing elections, individual election and election on the American list (ASEAN)	Elections	Theory lectures	Theory exam
30	1	The majority system and the proportional representation system The system of representation of interests The voting system of choice and compulsory voting The system of secret voting and public voting	Elections	Theory lectures	Theory exam

<b>11. Course Evaluation</b>	
Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc	
<b>12. Learning and Teaching Resources</b>	
Required textbooks (curricular books, if any)	Human rights and democracy
Main references (sources)	Democracy and human rights, Mohammed Younis Al-Saiegh 2021, Ib Al-Atheer publisher
Recommended books and references (scientific journals, reports...)	Human rights, Hameed Hanoon
Electronic References, Websites	
Percentage of course update	5%

Name and signature of the course administrator	Name and signature of Head of the Department
<b>Assistant Professor Dr Ali Adnan Alfeel</b>	<b>Prof Dr Ghada Abdulrahman Taqa</b>

## Course Description Form

<b>1. Course Name:</b>	
Medical Terminology	
<b>2. Course Code:</b>	
1267 MT	
<b>3. Semester / Year:</b>	
First year / first and second semester – 2025-2026	
<b>4. Description Preparation Date:</b>	
2025/12/2	
<b>5. Available Attendance Forms:</b>	
Theoretical and practical	
<b>6. Number of Credit Hours (Total) / Number of Units (Total)</b>	
Theoretical: 15 hours. Total units: 1	
<b>7. Course administrator's name (mention all, if more than one name)</b>	
Name: Assistant Lecturer Areej Mohammed Al-Jawadi Email: areej_m2018@uomosul.edu.iq	
<b>8. Course Objectives</b>	
<b>Course Objectives</b>	<ul style="list-style-type: none"> <li>- Study English grammar.</li> <li>- Study of medical and dental terminology.</li> <li>- Enhancement of verbal and written language.</li> </ul>
<b>9. Teaching and Learning Strategies</b>	
<b>Strategy</b>	<ul style="list-style-type: none"> <li>- Theory lectures.</li> <li>- Educational videos and utilization of smart boards.</li> <li>- Focused student group discussion.</li> </ul>

<b>10. Course Structure</b>					
<b>Theory part</b>					
Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	1	Prefixes & suffixes	Prefixes	Theory lectures	Theory exam

**10. Course Structure****Theory part**

<b>Week</b>	<b>Hr</b>	<b>Required Learning Outcomes</b>	<b>Unit or subject name</b>	<b>Learning method</b>	<b>Evaluation method</b>
2	1	Integumentary system	Integumentary system	Theory lectures	Theory exam
3	1	Muscular system	Muscular system	Theory lectures	Theory exam
4	1	Respiratory system	Respiratory system	Theory lectures	Theory exam
5	1	Digestive system	Digestive system	Theory lectures	Theory exam
6	1	Nervous system	Nervous system	Theory lectures	Theory exam
7	1	Cardiovascular system	Cardiovascular system	Theory lectures	Theory exam
8	1	Blood and Lymph	Immune system	Theory lectures	Theory exam
9	1	Immune system Endocrine system	Five sense	Theory lectures	Theory exam
10	1	Five sense	genitourinary system	Theory lectures	Theory exam
11	1	genitourinary system	Dental terminology	Theory lectures	Theory exam
12	1	Dental terminology part 1	Dental terminology	Theory lectures	Theory exam
13	1	Dental terminology part 2	Dental terminology	Theory lectures	Theory exam
14	1	Dental terminology part 3	Small Talks	Theory lectures	Theory exam
15	1	Small Talks	Common Mistakes	Theory lectures	Theory exam
16	1	Common Mistakes	Passive voice	Theory lectures	Theory exam

## 10. Course Structure

### Theory part

Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
17	1	Passive voice	Direct and indirect speech	Theory lectures	Theory exam
18	1	Direct and indirect speech	Synonyms	Theory lectures	Theory exam
19	1	Synonyms in English	Adjectives	Theory lectures	Theory exam
20	1	Adjectives	quotation	Theory lectures	Theory exam
21	1	Integrating a quotation into an essay	Prepositions	Theory lectures	Theory exam
22	1	Prepositions in English	Grammar	Theory lectures	Theory exam
23	1	Grammar with Examples	Idioms	Theory lectures	Theory exam
24	1	Idioms and Phrases		Theory lectures	Theory exam
25	1	Writing assignment	Writing assignment	Theory lectures	Theory exam
26	1	Pronunciation rules	Pronunciation	Theory lectures	Theory exam
27	1	Tenses		Theory lectures	Theory exam
28	1	Synonyms and Antonyms	Synonyms	Theory lectures	Theory exam
29	1	Paraphrasing	Paraphrasing	Theory lectures	Theory exam
30	1	Essay writing skills	writing skills	Theory lectures	Theory exam

## 11. Course Evaluation

Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc  
40% mark for 1<sup>st</sup> , 2<sup>nd</sup> semesters and mid year exams  
60% mark for final year exam

<b>12. Learning and Teaching Resources</b>	
Required textbooks (curricular books, if any)	Charline M. Dofka . (2012) .Dental Terminology . Third Ediditon. USA.
Main references (sources)	Dr. Kaftan , F. (2013). Medical Terminology part 1. College of Medicin, Sulaimani University : IRAQ. Dr. Kaftan , F. (2013). Medical Terminology part 2. Coll of Medicin, Sulaimani University : IRAQ.
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	
Percentage of course update	5%

Name and signature of the course administrator	Name and signature of Head of the Department
<b>Assist Lect Areej Mohammed Al-Jawadi</b>	<b>Prof Dr Ghada Abdulrahman Taqa</b>

## Course Description Form

<b>1. Course Name:</b>	
Human Anatomy	
<b>2. Course Code:</b>	
1268 HUMA	
<b>3. Semester / Year:</b>	
First year / first and second semester – 2025-2026	
<b>4. Description Preparation Date:</b>	
4/12/2025	
<b>5. Available Attendance Forms:</b>	
Theoretical and practical	
<b>6. Number of Credit Hours (Total) / Number of Units (Total)</b>	
Theoretical: 30 hours, practical: 60 hours. Total units: 4	
<b>7. Course administrator's name (mention all, if more than one name)</b>	
Name: Lecturer Yusra Hamid <a href="mailto:Yusra_Hamid@uomosul.edu.iq">Yusra_Hamid@uomosul.edu.iq</a> Assist Lect Basma Salim <a href="mailto:basma.salim@uomosul.edu.iq">basma.salim@uomosul.edu.iq</a>	
<b>8. Course Objectives</b>	
<b>Course Objectives</b>	<ul style="list-style-type: none"> <li>- Introduction to human anatomy.</li> <li>- Head and neck anatomy, chest anatomy.</li> <li>- Practical study and hands-on anatomy.</li> </ul>
<b>9. Teaching and Learning Strategies</b>	
<b>Strategy</b>	<ul style="list-style-type: none"> <li>- Theory lectures and practical laboratories.</li> <li>- Educational videos and utilization of smart boards.</li> <li>- Use of educational models.</li> <li>- Focused student group discussion.</li> </ul>

<b>10. Course Structure</b>					
<b>Theory part</b>					
Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	1	Introduction to Human Anatomy	Introduction to Human Anatomy Descriptive Anatomic Terms	Theory lectures	Theory exam

## 10. Course Structure

### Theory part

Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
		Descriptive Anatomic Terms			
2	1	Basic Structures: Skin, Fasciae, Muscle, Joints, Ligament, Bursae	Basic Structures: Skin, Fasciae, Muscle, Joints, Ligament, Bursae	Theory lectures	Theory exam
3	2	Basic Structures: Bone, Cartilage, Blood Vessels, Lymphatic System	Basic Structures: Bone, Cartilage, Blood Vessels, Lymphatic System	Theory lectures	Theory exam
4	2	Basic Structures: Nervous System, Mucous Membranes, Serous Membranes	Basic Structures: Nervous System, Mucous Membranes, Serous Membranes	Theory lectures	Theory exam
5	2	Skeletal system of the body: Skull :Cranial Bones	Skeletal system of the body: Skull :Cranial Bones	Theory lectures	Theory exam
6	2	Skeletal system of the body: Skull : Facial Bones	Skeletal system of the body: Skull : Facial Bones	Theory lectures	Theory exam
7	2	External Views of the Skull	External Views of the Skull	Theory lectures	Theory exam
8	2	The Cranial Cavity. Major Foramina and Fissures locations and structures pass through. Neonatal Skull	The Cranial Cavity. Major Foramina and Fissures locations and structures pass through. Neonatal Skull	Theory lectures	Theory exam
9	2	Skeleton of the Orbital Region, Openings into the Orbital Cavity. Skeleton of the External Nose, nasal cavity, Paranasal Sinuses. Auditory ossicles Hyoid bone	Skeleton of the Orbital Region, Openings into the Orbital Cavity. Skeleton of the External Nose, nasal cavity, Paranasal Sinuses. Auditory ossicles Hyoid bone	Theory lectures	Theory exam

**10. Course Structure****Theory part**

<b>Week</b>	<b>Hr</b>	<b>Required Learning Outcomes</b>	<b>Unit or subject name</b>	<b>Learning method</b>	<b>Evaluation method</b>
10	2	The Vertebral Column	The Vertebral Column	Theory lectures	Theory exam
11	2	Structure of the Thoracic Wall. Joints of the Chest Wall. Suprapleural Membrane Diaphragm Surface Anatomy	Structure of the Thoracic Wall. Joints of the Chest Wall. Suprapleural Membrane Diaphragm Surface Anatomy	Theory lectures	Theory exam
12	2	Thoracic cavity: Mediastinum, Pleurae, Trachea, Bronchi, Lungs	Thoracic cavity: Mediastinum, Pleurae, Trachea, Bronchi, Lungs	Theory lectures	Theory exam
13	2	Pericardium, Heart, Large arteries, veins and nerves of thorax	Pericardium, Heart, Large arteries, veins and nerves of thorax	Theory lectures	Theory exam
14	2	Bones of the Shoulder (Pectoral girdle) girdles Bones of the Upper extremities	Bones of the Shoulder (Pectoral girdle) girdles Bones of the Upper extremities	Theory lectures	Theory exam
15	2	Bones of the Pelvic girdle Bones of the Lower extremities	Bones of the Pelvic girdle Bones of the Lower extremities	Theory lectures	Theory exam
16	2	Abdominal cavity and organs	Abdominal cavity and organs	Theory lectures	Theory exam

<b>Practical part</b>				
<b>Week</b>	<b>Hr</b>	<b>Laboratory subject</b>	<b>Learning method</b>	<b>Evaluation method</b>
1	2	Introduction to anatomy	Practical work	Practical exam
2	2	Basic structures part 1 (Skin, Fasciae, Muscle, Joints, Ligament, Bursae)	Practical work	Practical exam
3	2	Basic structures part 2 (bone, Cartilage, Blood Vessels, Lymphatic System) and classification of human skeleton	Practical work	Practical exam
4	2	Basic structures part 3 (Nervous System, Mucous Membranes, Serous Membranes)	Practical work	Practical exam
5	2	Frontal Bone, Parietal bones	Practical work	Practical exam
6	2	Occipital bone	Practical work	Practical exam
7	2	Temporal bones	Practical work	Practical exam
8	2	Sphenoid bone	Practical work	Practical exam
9	2	Ethmoid bone	Practical work	Practical exam
10	2	Zygomatic bones, Maxillae	Practical work	Practical exam
11	2	Nasal bones, Lacrimal bones, Vomer, Palatine bones, Inferior conchae	Practical work	Practical exam
12	2	Mandible	Practical work	Practical exam
13	2	External Views of the Skull	Practical work	Practical exam
14	2	Cranial cavity	Practical work	Practical exam
15	2	Major Foramina and Fissures locations and structures pass through the skull	Practical work	Practical exam
16	2	Orbit	Practical work	Practical exam
17	2	Nasal cavity	Practical work	Practical exam
18	2	Auditory ossicles, Hyoid bone	Practical work	Practical exam

<b>Practical part</b>				
<b>Week</b>	<b>Hr</b>	<b>Laboratory subject</b>	<b>Learning method</b>	<b>Evaluation method</b>
19	2	General Characteristics of a Vertebra	Practical work	Practical exam
20	2	Structure of the Thoracic cage (Sternum ,Ribs, Costal Cartilages)	Practical work	Practical exam
21	2	Thoracic cavity (Mediastinum, Pleurae, Trachea, Bronchi)	Practical work	Practical exam
22	2	Lung	Practical work	Practical exam
23	2	Anatomy of heart	Practical work	Practical exam
24	2	Major arteries, veins and nerves of thorax	Practical work	Practical exam
25	2	Bones of the Shoulder (Pectoral girdle) girdles	Practical work	Practical exam
26	2	Bones of the Upper extremities	Practical work	Practical exam
27	2	Bones of the Pelvic girdle	Practical work	Practical exam
28	2	Bones of the Lower extremities	Practical work	Practical exam
29	2	Abdominal cavity and organs	Practical work	Practical exam
30	2	Final Oral & Practical Examination of Tooth carving	Practical work	Practical exam

**11.Course Evaluation**

Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc

**12.Learning and Teaching Resources**

Required textbooks (curricular books, if any)	
Main references (sources)	
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	
Percentage of course update	5%

Name and signature of the course administrator	Name and signature of Head of the Department
<b>Lect Yusra Hamid Hussien</b>	<b>Assist Prof Dr Manar M Al-Nema</b>

## Course Description Form

<b>1. Course Name:</b>					
Arabic Language					
<b>2. Course Code:</b>					
1269 ARA					
<b>3. Semester / Year:</b>					
First year / first and second semester – 2025-2026					
<b>4. Description Preparation Date:</b>					
3/12/2025					
<b>5. Available Attendance Forms: On campus / Electronic Platform</b>					
Theory					
<b>6. Number of Credit Hours () / Number of Units ():</b>					
Hours 30 hrs theory Units: 2 units					
<b>7. Course administrator's name (mention all, if more than one name)</b>					
Name: Prof Dr Mohammed Salih Khalaf Email: <a href="mailto:drmohammedsalih@uomosul.edu.iq">drmohammedsalih@uomosul.edu.iq</a>					
<b>8. Course Objectives</b>					
<b>Course Objectives</b>		Enabling the student to acquire the information that helps them understand the fundamentals of the language and its importance in enhancing the student's knowledge, improving their writing and research style, and avoiding some common spelling mistakes.			
<b>9. Teaching and Learning Strategies</b>					
<b>Strategy</b>		Reaching a stage at which the student is able to understand the fundamentals of the language while being familiar with the linguistic aspects that help them avoid making mistakes.			
<b>10. Course Structure</b>					
<b>Theory part</b>					
<b>Week</b>	<b>Hours</b>	<b>Required Learning Outcomes</b>	<b>Unit or subject name</b>	<b>Learning method</b>	<b>Evaluation method</b>
1	1	Rules for Writing the Hamza at the	Rules for Writing the	Theory lectures	Theory exam

		Beginning of a Word	Hamza at the Beginning of a Word		
2	1	Rules for Writing the Hamza in the Middle of a Word	Rules for Writing the Hamza in the Middle of a Word	Theory lectures	Theory exam
3	1	Rules for Writing the Hamza at the End of a Word	Rules for Writing the Hamza at the End of a Word	Theory lectures	Theory exam
4	1	Writing the Letters Ḍād (ض) and Zā' (ظ)	Writing the Letters Ḍād (ض) and Zā' (ظ)	Theory lectures	Theory exam
5	1	Rules for Writing Ḍād and Zā'	Rules for Writing Ḍād and Zā'	Theory lectures	Theory exam
6	1	Rules for Writing Zā'	Rules for Writing Zā'	Theory lectures	Theory exam
7	1	Rules for Writing Ḍād	Rules for Writing Ḍād	Theory lectures	Theory exam
8	1	Linguistic Reflections	Linguistic Reflections	Theory lectures	Theory exam
9	1	Common Mistakes in the Arabic Language	Common Mistakes in the Arabic Language	Theory lectures	Theory exam
10	1	Linguistic Paradoxes	Linguistic Paradoxes	Theory lectures	Theory exam
11	1	Antonyms in the Arabic Language	Antonyms in the Arabic Language	Theory lectures	Theory exam
12	1	Plurals Without a Singular Form	Plurals Without a Singular Form	Theory lectures	Theory exam
13	1	Words Without a Plural Form	Words Without a Plural Form	Theory lectures	Theory exam
14	1	Some Semantic Differences Between Words	Some Semantic Differences Between Words	Theory lectures	Theory exam
15	1	Punctuation Marks	Punctuation Marks	Theory lectures	Theory exam
16	1	Numbers and Counted Nouns	Numbers and Counted Nouns	Theory lectures	Theory exam
17	1	Numbers	Numbers	Theory lectures	Theory exam

18	1	Counted Nouns	Counted Nouns	Theory lectures	Theory exam
19	1	Rules	Rules	Theory lectures	Theory exam
20	1	The Nominal Sentence	The Nominal Sentence	Theory lectures	Theory exam
21	1	The Subject (Mubtada') and Predicate (Khabar)	The Subject (Mubtada') and Predicate (Khabar)	Theory lectures	Theory exam
22	1	Types of Predicate	Types of Predicate	Theory lectures	Theory exam
23	1	Omission of the Subject and Predicate	Omission of the Subject and Predicate	Theory lectures	Theory exam
24	1	Cases Where the Predicate Precedes the Subject	Cases Where the Predicate Precedes the Subject	Theory lectures	Theory exam
25	1	Defective Past Verbs	Defective Past Verbs	Theory lectures	Theory exam
26	1	Particles Similar to Verbs	Particles Similar to Verbs	Theory lectures	Theory exam
27	1	Accusative Constructions in Arabic	Accusative Constructions in Arabic	Theory lectures	Theory exam
28	1	The Direct Object and Adverbial Object (Maf'ul Bihi and Maf'ul Fihi)	The Direct Object and Adverbial Object (Maf'ul Bihi and Maf'ul Fihi)	Theory lectures	Theory exam
29	1	The Causal Object, Absolute Object, and Accompaniment Object	The Causal Object, Absolute Object, and Accompaniment Object	Theory lectures	Theory exam
30	1	The Circumstantial Adverb (Hāl)	The Circumstantial Adverb (Hāl)	Theory lectures	Theory exam

### 11. Course Evaluation

40% marks for 1<sup>st</sup>, 2<sup>nd</sup> and mid year exam

60% marks for final year exam

## 12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	
Main references (sources)	
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	
Percentage of course update	5%

Name and signature of the course administrator	Name and signature of Head of the Department
<b>Prof Dr Mohammed Salih Khalaf</b>	<b>Prof Dr Ghada Abdulrahman Taqa</b>

## Second year Course Description Form

<b>1. Course Name:</b>	
General Anatomy	
<b>2. Course Code:</b>	
2261 HUMA	
<b>3. Semester / Year:</b>	
Second year – 2025-2026	
<b>4. Description Preparation Date:</b>	
10 Sept 2025	
<b>5. Available Attendance Forms:</b>	
Theoretical and practical	
<b>6. Number of Credit Hours (Total) / Number of Units (Total)</b>	
Theoretical: 30 hours, practical: 60 hours. Total units: 6	
<b>7. Course administrator's name (mention all, if more than one name)</b>	
Name: Prof. Dr. Ayad Abdulrahman Alsaraj Email: <a href="mailto:ayadrehman@uomosul.edu.iq">ayadrehman@uomosul.edu.iq</a> Lecturer Saif Aldeen Abbas Email: <a href="mailto:saifaljammas@uomosul.edu.iq">saifaljammas@uomosul.edu.iq</a>	
<b>8. Course Objectives</b>	
<b>Course Objectives</b>	<ul style="list-style-type: none"> <li>- Introduction to human anatomy.</li> <li>- Head and neck anatomy, chest anatomy.</li> <li>- Practical study and hands-on anatomy.</li> </ul>
<b>9. Teaching and Learning Strategies</b>	
<b>Strategy</b>	<ul style="list-style-type: none"> <li>- Theory lectures and practical laboratories.</li> <li>- Educational videos and utilization of smart boards.</li> <li>- Use of educational models.</li> <li>- Focused student group discussion.</li> </ul>

## 10. Course Structure

### Theory part

Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	1	Scalp	Scalp	Theory lectures	Theory exam
2	1	The orbital region 1st part	Scalp	Theory lectures	Theory exam
3	1	The orbital region 2nd part	Orbital region	Theory lectures	Theory exam
4	1	The Nasal region	Orbital region	Theory lectures	Theory exam
5	1	Mandibular nerve	The Nasal region	Theory lectures	Theory exam
6	1	Face 1 <sup>st</sup> part	Mandibular nerve	Theory lectures	Theory exam
7	1	Face 2 <sup>nd</sup> part	The Face	Theory lectures	Theory exam
8	1	Oral cavity 1 <sup>st</sup> part	The Face	Theory lectures	Theory exam
9	1	Oral cavity 2 <sup>nd</sup> part	Oral cavity	Theory lectures	Theory exam
10	1	Tongue	Oral cavity	Theory lectures	Theory exam
11	1	Temporal region	The Tongue	Theory lectures	Theory exam
12	1	Parotid gland	Temporal region	Theory lectures	Theory exam
13	1	Parotid gland	Parotid gland	Theory lectures	Theory exam
14	1	The Pterygopalatine fossa	Parotid gland	Theory lectures	Theory exam
15	1	Temporomandibular joint	The Pterygopalatine fossa	Theory lectures	Theory exam
16	1	The Nasal region	Temporomandibular joint	Theory lectures	Theory exam

## 10. Course Structure

### Theory part

Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
17	1	Mandibular nerve	Temporomandibular joint	Theory lectures	Theory exam
18	1	Temporomandibular joint	The neck	Theory lectures	Theory exam
19	1	The neck	The neck	Theory lectures	Theory exam
20	1	The neck	Triangles of the neck	Theory lectures	Theory exam
21	1	Triangles of the neck	Triangles of the neck	Theory lectures	Theory exam
22	1	Triangles of the neck	Submandibular region	Theory lectures	Theory exam
23	1	Submandibular region	Root of the neck	Theory lectures	Theory exam
24	1	Root of the neck	Root of the neck	Theory lectures	Theory exam
25	1	Root of the neck	Arteries of the neck	Theory lectures	Theory exam
26	1	Arteries of the neck	Arteries of the neck	Theory lectures	Theory exam
27	1	Arteries of the neck	Brain	Theory lectures	Theory exam
28	1	Brain	Cranial nerves	Theory lectures	Theory exam
29	1	Cranial nerves	Pharynx	Theory lectures	Theory exam
30	1	Pharynx	Larynx	Theory lectures	Theory exam

Practical part				
Week	Hr	Laboratory subject	Learning method	Evaluation method
1	2	Scalp	Practical work	Practical exam
2	2	The orbital region 1st part	Practical work	Practical exam
3	2	The orbital region 2nd part	Practical work	Practical exam
4	2	The Nasal region	Practical work	Practical exam
5	2	Mandibular nerve	Practical work	Practical exam
6	2	Face 1 <sup>st</sup> part	Practical work	Practical exam
7	2	Face 2 <sup>nd</sup> part	Practical work	Practical exam
8	2	Oral cavity 1 <sup>st</sup> part	Practical work	Practical exam
9	2	Oral cavity 2 <sup>nd</sup> part	Practical work	Practical exam
10	2	Tongue	Practical work	Practical exam
11	2	Temporal region	Practical work	Practical exam
12	2	Parotid gland	Practical work	Practical exam
13	2	Parotid gland	Practical work	Practical exam
14	2	The Pterygopalatine fossa	Practical work	Practical exam
15	2	Temporomandibular joint	Practical work	Practical exam
16	2	The Nasal region	Practical work	Practical exam
17	2	Mandibular nerve	Practical work	Practical exam
18	2	Temporomandibular joint	Practical work	Practical exam

Practical part				
Week	Hr	Laboratory subject	Learning method	Evaluation method
19	2	The neck	Practical work	Practical exam
20	2	The neck	Practical work	Practical exam
21	2	Triangles of the neck	Practical work	Practical exam
22	2	Triangles of the neck	Practical work	Practical exam
23	2	Submandibular region	Practical work	Practical exam
24	2	Root of the neck	Practical work	Practical exam
25	2	Root of the neck	Practical work	Practical exam
26	2	Arteries of the neck	Practical work	Practical exam
27	2	Arteries of the neck	Practical work	Practical exam
28	2	Brain	Practical work	Practical exam
29	2	Cranial nerves	Practical work	Practical exam
30	2	Pharynx	Practical work	Practical exam

### 11.Course Evaluation

Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc

### 12.Learning and Teaching Resources

Required textbooks (curricular books, if any)	Richard S. Snell. Snell clinical anatomy by region, 9th edition.
Main references (sources)	The anatomical basis of dentistry 4th edition. Mosby. Frank H. Netters, Atlas of human anatomy, 7th edition. Elsevier.

Recommended books and references (scientific journals, reports...)	Color Atlas of Anatomy
Electronic References, Websites	<a href="https://www.kenhub.com/">https://www.kenhub.com /</a>
Percentage of course update	5%

Name and signature of the course administrator	Name and signature of Head of the Department
<b>Prof. Dr. Ayad Abdulrahman Alsaraj</b>	<b>Prof Dr Ghada Abdulrahman Taqa</b>

## Course Description Form

<b>1. Course Name:</b>	
Prosthodontics	
<b>2. Course Code:</b>	
2262 PROS	
<b>3. Semester / Year:</b>	
Second year – 2025-2026	
<b>4. Description Preparation Date:</b>	
01 Dec 2025	
<b>5. Available Attendance Forms:</b>	
Theoretical and practical	
<b>6. Number of Credit Hours (Total) / Number of Units (Total)</b>	
Theoretical: 30 hours, practical: 120 hours. Total units: 6	
<b>7. Course administrator's name (mention all, if more than one name)</b>	
Name: Assist Lect Dr Abullah Jasim Email: <a href="mailto:AbdoAlla2009@uomosul.edu.iq">AbdoAlla2009@uomosul.edu.iq</a>	
<b>8. Course Objectives</b>	
<b>Course Objectives</b>	<ul style="list-style-type: none"> <li>- Introduction to Complete Denture.</li> <li>- Steps of complete denture primary and final impression.</li> <li>- Steps of trial denture fabrication.</li> <li>- Complete denture construction.</li> </ul>
<b>9. Teaching and Learning Strategies</b>	
<b>Strategy</b>	<ul style="list-style-type: none"> <li>- Theory lectures and practical laboratories.</li> <li>- Educational videos and utilization of smart boards.</li> <li>- Use of educational models.</li> <li>- Focused student group discussion.</li> </ul>

## 10. Course Structure

### Theory part

Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	1	Complete denture -Objective of complete denture - General consideration in complete denture construction - Complete denture component parts	Introduction (Complete denture Prosthodontics)	Theory lectures	Theory exam
2	1	Anatomical landmarks -Maxillary arch anatomical landmarks -Supporting structures -Limiting structures -Relief areas	Anatomical Landmarks (maxillary)	Theory lectures	Theory exam
3	1	Anatomical landmarks -Mandibular arch anatomical landmarks -Supporting structures -Limiting structures -Relief areas	Anatomical landmarks (mandibular)	Theory lectures	Theory exam
4	1	Impression tray - Definition -Parts of the impression tray -Types of tray -Stock tray – Definition -Types of stock trays -Factors effect in selection of stock tray	Complete Denture Impression	Theory lectures	Theory exam
5	1	-Special tray -Advantages of special tray -Materials used for construction of special tray -Types of special tray	Complete Denture Impression	Theory lectures	Theory exam

## 10. Course Structure

### Theory part

Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
		Techniques or methods for construction of special tray -Criteria for special tray construction			
6	1	Dental impression - Definition -Complete denture impression - Definition -Objective of impression making -Primary impression - Definition -Materials used for making primary impression -Primary cast -Definition -Production of study cast -Secondary impression - Definition -Master cast- Definition -Materials used for final impression -Technique used for making final impression -Boxing an impression and making the casts -Advantages of boxing -Common fault in impression making	Complete Denture Impression	Theory lectures	Theory exam

## 10. Course Structure

### Theory part

Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
7	1	Record base - Definition Requirements of record base Types of materials used in construction of record base	Record Base	Theory lectures	Theory exam
8	1	Occlusion rims - Definition Requirements of occlusion rim Materials used in construction of occlusion rim Measurements of maxillary occlusion rim Measurements of mandibular occlusion rim Uses of occlusion rim Occlusal plane Fox – bite	Occlusion rims	Theory lectures	Theory exam
9	1	Temporomandibular joint (TMJ) – Definition • Ligaments • Muscles	Anatomy And Physiology Of Temporomandibular Joint	Theory lectures	Theory exam
10	1	Mandibular axes and mandibular movements Knowledge of mandibular movements Mandibular movements	Anatomy And Physiology Of Temporomandibular	Theory lectures	Theory exam

## 10. Course Structure

### Theory part

Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
			Joint		
11	1	Types of jaw relation Vertical jaw relation Rest position Inter – occlusal distance Importance of vertical dimension Increased vertical dimension Decreased vertical dimension	Maxillomandibular relation	Theory lectures	Theory exam
12	1	Method of recording rest vertical dimension Method of recording occlusal vertical dimension Pre – extraction records Methods without pre – extraction record	Methods of recording vertical relation	Theory lectures	Theory exam
13	1	Centric jaw relation Importance of centric jaw relation Methods of recording jaw relation Factors that complicates centric jaw relation Methods of recording Eccentric jaw relation	Horizontal jaw relation	Theory lectures	Theory exam
14	1	Dental articulator Definition Functions of articulator	Dental Articulators (Classification & Digital	Theory lectures	Theory exam

## 10. Course Structure

### Theory part

Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
		Requirements of articulator Types of articulator	computerized articulator programming )		
15	1	Face- bow Definition Parts of face – bow Types of face – bow Important of the face – bow	Face- bow	Theory lectures	Theory exam
16	1	Mounting Definition Preparation of articulator Preparation of the casts and mounting the upper cast on CL II articulator Mounting the lower cast Errors occurred during mounting	Mounting	Theory lectures	Theory exam
17	1	Selection of anterior teeth The factors of shade selection Size selection a. Length b. Width Form selection Materials of anterior teeth Difference between acrylic and porcelain teeth	Selection of artificial teeth (Anterior)	Theory lectures	Theory exam

## 10. Course Structure

### Theory part

Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
18	1	Shade Bucco-lingual width Mesio-distal length Occluso-gingival height Occlusal form Advantages of cusp form teeth Advantages of non-cusp form teeth	Selection of posterior teeth	Theory lectures	Theory exam
19	1	Guideline of artificial teeth arrangement Arrangement of anterior teeth Arrangement of upper anterior teeth	Arrangement of artificial teeth	Theory lectures	Theory exam
20	1	Curve of Spee Compensatory curves Arrangement of lower posterior teeth Arrangement of upper posterior teeth Common errors in arrangement of teeth	Arrangement of posterior teeth	Theory lectures	Theory exam
21	1	Waxing - Definition - Requirements of waxing the polish surfaces - The procedure of waxing - Establishing the posterior palatal seal area - Procedure for carving	Waxing and carving	Theory lectures	Theory exam

## 10. Course Structure

### Theory part

Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
		of posterior palatal seal area - Advantages of posterior palatal seal -Esthetic consideration in complete denture			
22	1	Occlusion -Occlusion of complete denture -Centric occlusion -Centric relation	Complete denture occlusion	Theory lectures	Theory exam
23	1	Eccentric occlusion Concepts of complete denture occlusion Try-in appointment	Complete denture occlusion	Theory lectures	Theory exam
24	1	Flasking of the denture Flasking techniques	Processing of the denture (flasking)	Theory lectures	Theory exam
25	1	Causes of errors in occlusion Selective grinding Correction of occlusal errors Disadvantages of intra – oral correction Advantages of extra – oral correction rules of selective grinding	Occlusal correction	Theory lectures	Theory exam
26	1	Procedure of finishing Grinding and cutting instruments Polishing of complete denture Principles of polishing Procedures of polishing	Finishing and polishing of complete denture	Theory lectures	Theory exam

## 10. Course Structure

### Theory part

Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
27	1	Types of material used in repair Causes of denture fracture Types of repair Laboratory procedure for repairing fractured denture base	Repair of complete denture	Theory lectures	Theory exam
28	1	Replacement of broken or missing tooth Replacement of missing or lost part Requirement of repair	Repair of complete denture	Theory lectures	Theory exam
29	1	Indication for relining or rebasing Relining Contraindications of relining and rebasing The impression techniques for relining and rebasing	Relining and rebasing	Theory lectures	Theory exam
30	1	Laboratory procedures for relining Rebasing The chair – side relining technique	Relining and rebasing	Theory lectures	Theory exam

### Practical part

Week	Hr	Laboratory subject	Learning method	Evaluation method
1	4	Clinical and laboratory steps of complete denture construction	Practical work	Practical exam
2	4	Taking primary impression on metal mold by impression compound and beading and boxing and pouring by dental plaster	Practical work	Practical exam
3	4	Pouring on rubber mold (upper and lower primary cast)	Practical work	Practical exam

<b>Practical part</b>				
<b>Week</b>	<b>Hr</b>	<b>Laboratory subject</b>	<b>Learning method</b>	<b>Evaluation method</b>
4	4	Description of anatomical landmarks (maxillary and mandibular arch)	Practical work	Practical exam
5	4	Demonstration of making upper and lower special tray by cold cure acrylic	Practical work	Practical exam
6	4	Finishing and polishing of special tray and evaluation	Practical work	Practical exam
7	4	Demonstration of taking final impression and construction of master cast	Practical work	Practical exam
8	4	Evaluation of record base construction, finishing and polishing	Practical work	Practical exam
9	4	Bite rims construction (upper and lower arch)	Practical work	Practical exam
10	4	Demonstration of face bow and fox bite and description of types of jaw relation	Practical work	Practical exam
11	4	Description about the methods of recording vertical jaw relation	Practical work	Practical exam
12	4	Description about the methods of recording horizontal jaw relation	Practical work	Practical exam
13	4	Demonstration about the types of articulators, parts, its uses and action	Practical work	Practical exam
14	4	Mounting of upper and lower casts on articulators	Practical work	Practical exam
15	4	Mounting of upper and lower casts on articulators (continue) and evaluation of the student work	Practical work	Practical exam
16	4	Description the methods of selection of anterior and posterior teeth for complete denture	Practical work	Practical exam
17	4	Demonstration about arrangement of upper and lower anterior teeth	Practical work	Practical exam

<b>Practical part</b>				
<b>Week</b>	<b>Hr</b>	<b>Laboratory subject</b>	<b>Learning method</b>	<b>Evaluation method</b>
18	4	Arrangement of upper and lower anterior teeth (continue) and evaluation of the student work	Practical work	Practical exam
19	4	Demonstration about arrangement of upper and lower posterior teeth	Practical work	Practical exam
20	4	Arrangement of upper and lower posterior teeth( continue).	Practical work	Practical exam
21	4	Arrangement of posterior teeth and carving of posterior palatal seal and evaluation of the student work	Practical work	Practical exam
22	4	Demonstration about carving and waxing of upper complete denture.	Practical work	Practical exam
23	4	Carving and waxing of lower complete denture (continue) and evaluation of the student work	Practical work	Practical exam
24	4	Flasking and investment of the denture	Practical work	Practical exam
25	4	Wax elimination, packing and curing of heat cure acrylic	Practical work	Practical exam
26	4	Deflasking ,finishing and polishing of upper complete denture	Practical work	Practical exam
27	4	Deflasking ,finishing and polishing of lower complete denture (continue)	Practical work	Practical exam
28	4	Demonstration of selective grinding	Practical work	Practical exam
29	4	Repair of fracture denture	Practical work	Practical exam
30	4	Repair of missing tooth	Practical work	Practical exam

### **11.Course Evaluation**

Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc

### **12.Learning and Teaching Resources**

Required textbooks (curricular books, if any)	Syllabus of complete denture (text book of complete denture (
Main references (sources)	Dental laboratory technology for removable prosthodontics
Recommended books and references (scientific journals, reports...)	Yamashita, M. Shimizu, and H. Katada, "A newly proposed method to predict optimum occlusal vertical dimension," Journal of Prosthodontics, vol. 24, no. 4, pp. 287–290, 2015. • J. Abduo and K.
Electronic References, Websites	Lyons, "Clinical considerations for increasing occlusal vertical dimension: a review," Australian Dental Journal, vol. 57, no. 1, pp. 2–10, 2012 • R. Matsuda, Y. Yoneyama, M. Morokuma, and C. Ohkubo, "The influence of vertical dimension of occlusion changes on the electroencephalograms of complete denture wearers," Journal of Prosthodontics Research, vol. 58, no. 2, pp. 121–124, 2014.
Percentage of course update	5%

Name and signature of the course administrator	Name and signature of Head of the Department
<b>Assist Prof. Dr. Abdullah Jasim</b>	<b>Lect Dr Inas Aziz Mohammed</b>

## Course Description Form

<b>1. Course Name:</b>	
General Histology	
<b>2. Course Code:</b>	
GHIS 2263	
<b>3. Semester / Year:</b>	
Second year / 2025-2026	
<b>4. Description Preparation Date:</b>	
02 Dec 2025	
<b>5. Available Attendance Forms:</b>	
Theoretical and practical	
<b>6. Number of Credit Hours (Total) / Number of Units (Total)</b>	
Theoretical: 60 hours, practical: 60 hours. Total units: 6	
<b>7. Course administrator's name (mention all, if more than one name)</b>	
Lect Dr Khansaa azeez	Khansaaazeez98@uomosul.edu.iq
Lect Dr Taghreed Hazem	taghreedhazem@uomosul.edu.iq
Assist Lect Manal Alahmad	<a href="mailto:manalalahmad@uomosul.edu-iq">manalalahmad@uomosul.edu-iq</a>
Assit Lect Basma Salim	basma.salim@uomosul.edu.iq
<b>8. Course Objectives</b>	
<b>Course Objectives</b>	<ul style="list-style-type: none"> <li>- Introduction to Histology.</li> <li>- Knowledge about tissues and skeleton.</li> <li>- Study different systems in the body and their tissue structures.</li> </ul>
<b>9. Teaching and Learning Strategies</b>	
<b>Strategy</b>	<ul style="list-style-type: none"> <li>- Theory lectures and practical laboratories.</li> <li>- Educational videos and utilization of smart boards.</li> <li>- Use of educational models.</li> <li>- Focused student group discussion.</li> </ul>

**10. Course Structure****Theory part**

<b>Week</b>	<b>Hr</b>	<b>Required Learning Outcomes</b>	<b>Unit or subject name</b>	<b>Learning method</b>	<b>Evaluation method</b>
1	2	Introduction of general histology	General Histology	Theory lectures	Theory exam
2	2	Res.sys:conduction portion	General Histology	Theory lectures	Theory exam
3	2	Res.sys:respiratoru portion	General Histology	Theory lectures	Theory exam
4	2	Urinary system	General Histology	Theory lectures	Theory exam
5	2	Urinary system	General Histology	Theory lectures	Theory exam
6	2	Skin: Epidermis	General Histology	Theory lectures	Theory exam
7	2	Skin : Dermis	General Histology	Theory lectures	Theory exam
8	2	Skin glands : Hair nail	General Histology	Theory lectures	Theory exam
9	2	Hemopoeisis,Bone marrow	General Histology	Theory lectures	Theory exam
10	2	Hemopoeisis: Blood cells	General Histology	Theory lectures	Theory exam
11	2	Circulatory system	General Histology	Theory lectures	Theory exam
12	2	Circulatory system	General Histology	Theory lectures	Theory exam
13	2	Lymphoid system	General Histology	Theory lectures	Theory exam
14	2	Lymphoid system	General Histology	Theory lectures	Theory exam
15	2	Nervous system	General Histology	Theory lectures	Theory exam
16	2	Nervous system	General Histology	Theory lectures	Theory exam
17	2	Nervous system	General Histology	Theory lectures	Theory exam

**10. Course Structure****Theory part**

<b>Week</b>	<b>Hr</b>	<b>Required Learning Outcomes</b>	<b>Unit or subject name</b>	<b>Learning method</b>	<b>Evaluation method</b>
18	2	Endocrine system	General Histology	Theory lectures	Theory exam
19	2	Endocrine system	General Histology	Theory lectures	Theory exam
20	2	Endocrine system	General Histology	Theory lectures	Theory exam
21	2	Digestive system	General Histology	Theory lectures	Theory exam
22	2	Digestive system	General Histology	Theory lectures	Theory exam
23	2	Digestive system	General Histology	Theory lectures	Theory exam
24	2	Digestive system	General Histology	Theory lectures	Theory exam
25	2	Male Reproductive system	General Histology	Theory lectures	Theory exam
26	2	Male Reproductive system	General Histology	Theory lectures	Theory exam
27	2	Female Reproductive system	General Histology	Theory lectures	Theory exam
28	2	Female Reproductive system	General Histology	Theory lectures	Theory exam
29	2	Sense organ (Eye)	General Histology	Theory lectures	Theory exam
30	2	Sense organ (Ear)	General Histology	Theory lectures	Theory exam

**Practical part**

<b>Week</b>	<b>Hr</b>	<b>Laboratory subject</b>	<b>Learning method</b>	<b>Evaluation method</b>
1	2	Introduction of general histology	Practical work	Practical exam
2	2	Res.sys:conduction portion	Practical work	Practical exam
3	2	Res.sys:respiratoru portion	Practical work	Practical exam

<b>Practical part</b>				
<b>Week</b>	<b>Hr</b>	<b>Laboratory subject</b>	<b>Learning method</b>	<b>Evaluation method</b>
4	2	Urinary system	Practical work	Practical exam
5	2	Urinary system	Practical work	Practical exam
6	2	Skin: Epidermis	Practical work	Practical exam
7	2	Skin : Dermis	Practical work	Practical exam
8	2	Skin glands : Hair nail	Practical work	Practical exam
9	2	Hemopoiesis,Bone marrow	Practical work	Practical exam
10	2	Hemopoiesis: Blood cells	Practical work	Practical exam
11	2	Circulatory system	Practical work	Practical exam
12	2	Circulatory system	Practical work	Practical exam
13	2	Lymphoid system	Practical work	Practical exam
14	2	Lymphoid system	Practical work	Practical exam
15	2	Nervous system	Practical work	Practical exam
16	2	Nervous system	Practical work	Practical exam
17	2	Nervous system	Practical work	Practical exam
18	2	Endocrine system	Practical work	Practical exam
19	2	Endocrine system	Practical work	Practical exam
20	2	Endocrine system	Practical work	Practical exam
21	2	Digestive system	Practical work	Practical exam
22	2	Digestive system	Practical work	Practical exam
23	2	Digestive system	Practical work	Practical exam
24	2	Digestive system	Practical work	Practical exam
25	2	Male Reproductive system	Practical work	Practical exam
26	2	Male Reproductive system	Practical work	Practical exam
27	2	Female Reproductive system	Practical work	Practical exam
28	2	Female Reproductive system	Practical work	Practical exam
29	2	Sense organ (Eye)	Practical work	Practical exam
30	2	Sense organ (Ear)	Practical work	Practical exam

<b>11.Course Evaluation</b>	
Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc	
<b>12.Learning and Teaching Resources</b>	
Required textbooks (curricular books, if any)	Text book of Medical Histology Atlas of Human Histology
Main references (sources)	Text book of Medical Histology Atlas of Human Histology
Recommended books and references (scientific journals, reports...)	Difiores – atlas – of – histology with functional correlation 11 <sup>th</sup> -ed
Electronic References, Websites	<a href="https://www.kenhub.com">https://www.kenhub.com</a> <a href="https://teachmeanatomy.info">https://teachmeanatomy.info</a>
Percentage of course update	5%

Name and signature of the course administrator	Name and signature of Head of the Department
<b>Lect Dr Khansaa Azeez</b>	<b>Prof Dr Ghada Abdulrahman Taqa</b>

## Course Description Form

<b>1. Course Name:</b>	
Medical Physiology	
<b>2. Course Code:</b>	
MPHS 2264	
<b>3. Semester / Year:</b>	
Second year / 2025-2026	
<b>4. Description Preparation Date:</b>	
01 Dec 2025	
<b>5. Available Attendance Forms:</b>	
Theoretical and practical	
<b>6. Number of Credit Hours (Total) / Number of Units (Total)</b>	
Theoretical: 60 hours, practical: 60 hours. Total units: 6	
<b>7. Course administrator's name (mention all, if more than one name)</b>	
Assist Prof Salwan Waadallah Yousif    Email: <a href="mailto:salwan@uomosul.edu.iq">salwan@uomosul.edu.iq</a>	
<b>8. Course Objectives</b>	
<b>Course Objectives</b>	<ul style="list-style-type: none"> <li>- Introduction to medical physiology.</li> <li>- Knowledge about the basics of the physiology of human body.</li> <li>- Study different systems in the body and their functions.</li> </ul>
<b>9. Teaching and Learning Strategies</b>	
<b>Strategy</b>	<ul style="list-style-type: none"> <li>- Theory lectures and practical laboratories.</li> <li>- Educational videos and utilization of smart boards.</li> <li>- Use of educational models.</li> <li>- Focused student group discussion.</li> </ul>

<b>10. Course Structure</b>					
<b>Theory part</b>					
Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2	Function organization of the human body, Cell physiology, Cell	Introduction	Theory lectures	Theory exam

## 10. Course Structure

### Theory part

Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
		membrane , Cell components , Cell Junction)			
2	2	Type of body fluids, Intracellular and extracellular, Daily intake of water, Daily loss of body water, Constituents of extracellular and intracellular fluids, Major factors contribute to the movement of fluid, Specialized Fluids of the Body. Types of Edema, Causes of edema, Measurement of body fluid volume, Dehydration, Types of dehydration, Classification, Causes, Signs and Symptoms of Dehydrations.	Body fluid and Edema	Theory lectures	Theory exam
3	2	Diffusion (passive), Carrier-mediated transport (passive or active), Vesicular transport).	Homeostasis and Transport across cell membrane	Theory lectures	Theory exam
4	2	Functions of Mouth, Salivary Glands Structure, Development, Major glands, Minor glands, Clinical correlations, Regulation of Salivary Secretion, Factors Influencing Salivary Flow and Composition. Mastication, Deglutition, Bolus Formation for Swallowing, Digestion. Speech: Definition, Mechanism, Nervous Control, Applied Physiology.	Oral cavity and salivary glands	Theory lectures	Theory exam
5	2	Composition of Saliva, Saliva Components, Properties of Saliva, Functions of Saliva, Effect of Drugs and Chemicals on Salivary Secretion, Maintenance of Tooth Integrity, The Diagnostic Applications of Saliva and forensic uses of saliva, Disadvantages/Limitations of Saliva.	Salivary functions and Regulation of Salivary Secretion	Theory lectures	Theory exam
6	2	Composition of blood, Hematocrit, Plasma, Functions of blood, Red blood cells, Genesis of R.B.C, polycythemia, Anemia, Destruction of R.B.C.s.	Blood	Theory lectures	Theory exam

## 10. Course Structure

### Theory part

Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
7	2	Types of W.B.C., Genesis of the leukocytes, Life span of the W.B.C, Phagocytosis, Inflammation, Leukemia's, Leukopenia.	White Blood Cells	Theory lectures	Theory exam
8	2	Formation of Hemoglobin, Iron Metabolism, Hb Compounds, Destruction of Hb, The common causes of jaundice.	Haemoglobin	Theory lectures	Theory exam
9	2	Agglutination, Agglutinins, The Rh Group, Formation of Anti-Rh, agglutinins, Erythroblastosis Fetalis , Effect of the Mother's Antibodies on the Fetus, Transfusion Reactions resulting from mismatched Blood Types, Nature of Antibodies.	Blood groups	Theory lectures	Theory exam
10	2	Vascular Spasm, Formation of a Platelet Plug, Mechanism of the Platelet Plug , Mechanism of Blood Coagulation , Prevention of Clotting in the Normal Vascular System , Prevention of Blood Coagulation outside the Body , Blood Disease.	Haemostasis and blood coagulation	Theory lectures	Theory exam
11	2	Heart: Layers, Valves, Actions of heart, Blood Vessels, Division of circulation, Properties of Cardiac Muscle, Action Potential and Ionic Basis, Conductive system of Human Heart.	Cardiovascular system: Blood vessels	Theory lectures	Theory exam
12	2	Cardiac Cycle, Heart Sounds, Cardiac Output, Heart Rate and Regulation, Arterial Blood Pressure and Regulation of ABP Venous Pressure and Capillary Pressure, Arterial Pulse and Venous Pulse, Regional Circulation.	Cardiovascular system: Blood pressure	Theory lectures	Theory exam
13	2	Electrocardiogram, Hemorrhage, Circulatory Shock and Heart Failure, Cardiovascular Adjustments during Exercise.	Cardiovasculars ystem	Theory lectures	Theory exam

## 10. Course Structure

### Theory part

Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
14	2	Types of Respiration, Stages of Respiration, Respiratory tract, Non respiratory functions of respiratory tract, Mechanics of Pulmonary Ventilation, Types of Respiratory pressures, Factors causing and preventing collapsing tendency of lungs)	Respiratory system	Theory lectures	Theory exam
15	2	Compliance, Variation in Compliance, The resistance and the work of breathing, Dead space, Lung volume and Lung capacity, Ventilation, Respiratory Protective Reflexes.	Respiratory system	Theory lectures	Theory exam
16	2	Pulmonary function tests, Regulation of Respiration, The relationship between oral health and respiratory disease.	Respiratory system	Theory lectures	Theory exam
17	2	Vision, Hearing, taste & smell, Structure of Eye, Visual Process and Field of Vision, Visual Pathway Pupillary Reflexes, Color Vision, and Errors of Refraction. Structure of Ear and Auditory Pathway, Mechanism of Hearing and Auditory Defects, Sensation of Taste and Smell.	Special sensations	Theory lectures	Theory exam
18	2	Normal body Temperatures, Physiological Variations of body temperature, Heat Balance, Heat gain or heat production in the body, Heat loss from the body, Insulator System of the Body, Blood flow to the skin from the body core provides heat transfer, Regulation of body temperature, Mechanisms to decrease or increase body temperature, Sympathetic "Chemical" Excitation of heat production.	Temperature of the Body	Theory lectures	Theory exam
19	2	Parts of Renal system, The Kidney, Functions of kidneys, Components of kidney, Parenchyma of kidney,	Urinary system	Theory lectures	Theory exam

## 10. Course Structure

### Theory part

Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
		Nephron and Juxtaglomerular Apparatus, Renal corpuscle, Structure of renal corpuscle, Tubular portion of nephron, Collecting duct.			
20	2	Urine formation, Mechanism of urine formation, Glomerular Filtration, Pressure determining filtration, Tubular Reabsorption, Tubular secretion, Micturition, Nerve supply to urinary bladder and sphincters, Renal Function Tests, Relation between renal disease & oral health.	Urinary system	Theory lectures	Theory exam
21	2	Introduction, Endocrine glands, Hormones, Nature of Hormones, Classification of hormones, Hormone Secretors, Hormonal action Hormone receptors, Synthesis and storage of hormones, Mechanism of hormonal function, Measurement of Hormone Concentrations in the Blood.	Endocrine system	Theory lectures	Theory exam
22	2	Oral manifestations of endocrine dysfunction, Control Systems Involving Hypothalamus and Pituitary glands, The pituitary gland, Thyroid gland, Pancreas gland, Adrenal glands.	Major endocrine glands	Theory lectures	Theory exam
23	2	The Functions of the digestive, Structural layers of digestive, Stomach, Secretions of the Stomach, Regulation of Stomach Secretion, Mixing of Stomach Contents, Stomach Emptying	Digestive system	Theory lectures	Theory exam
24	2	Small intestine, Secretions of the Small Intestine, Movement in the Small Intestine, Liver, Functions of the Liver, Pancreatic Secretions, Regulation of Pancreatic Secretion, Large Intestine, Movement in the Large Intestine. Digestion, Absorption, and Transport)	Digestive system	Theory lectures	Theory exam

## 10. Course Structure

### Theory part

Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
25	2	Muscle structure, Types, Structure, Microscopic Structure, Muscle Physiology, Properties, Contraction and contractile elements, Tone, Electrical and Molecular Changes during Muscular Contraction.	Muscular system	Theory lectures	Theory exam
26	2	Muscular system: Tone, contraction, Molecular Changes During Muscular Contraction, Neuromuscular Junction- Neuromuscular Transmission and Blockers, Nutrition and Metabolism (Energy Requirements).	Muscular system	Theory lectures	Theory exam
27	2	Nerve impulse, synapses, Nervous System Division, Cranial nerves , Neuron and Neuroglia, Receptors, Nerve impulse, Synapse and Neurotransmitters.	Nervous system	Theory lectures	Theory exam
28	2	Reflex Activity, Somatosensory System and Somatomotor System, Physiology of Pain.	Nervous system	Theory lectures	Theory exam
29	2	Aging & reproductive system, Male Reproductive System Female Reproductive System, Meiosis, Aging and Reproductive system.	Reproductive system	Theory lectures	Theory exam
30	2	Body Response in high altitudes, physiological Changes in the Sea deep. Nutrition and metabolism, daily energy requirement, obesity and fitness.	Aviation and Deep physiology and Nutrition	Theory lectures	Theory exam

### Practical part

Week	Hr	Laboratory subject	Learning method	Evaluation method
1	2	Microscope	Practical work	Practical exam
2	2	Collection of Blood Samples	Practical work	Practical exam
3	2	Blood Smears	Practical work	Practical exam

<b>Practical part</b>				
<b>Week</b>	<b>Hr</b>	<b>Laboratory subject</b>	<b>Learning method</b>	<b>Evaluation method</b>
4	2	Functions of Saliva & Taste Sensation	Practical work	Practical exam
5	2	Stimulation and collection of salivary secretion	Practical work	Practical exam
6	2	Separation of blood samples	Practical work	Practical exam
7	2	Differential WBCs	Practical work	Practical exam
8	2	Total Count of WBCs	Practical work	Practical exam
9	2	Total Count of RBCs	Practical work	Practical exam
10	2	Blood groups	Practical work	Practical exam
11	2	Estimation of Hemoglobin	Practical work	Practical exam
12	2	Bleeding and clotting time	Practical work	Practical exam
13	2	Self-Monitoring of blood glucose test	Practical work	Practical exam
14	2	Measurement of blood pressure & pulse rate	Practical work	Practical exam
15	2	Effect of exercise on blood pressure and respiratory rate	Practical work	Practical exam
16	2	Mid Exam	Practical work	Practical exam
17	2	Physiology of vision test	Practical work	Practical exam
18	2	Physiology of hearing test	Practical work	Practical exam
19	2	Physiology of Smell sensation	Practical work	Practical exam
20	2	Measurement of body temperature	Practical work	Practical exam
21	2	Thyroid function (Body mass index)	Practical work	Practical exam
22	2	Thyroid function (Body mass index)	Practical work	Practical exam
23	2	Resuscitation & Artificial respiration	Practical work	Practical exam
24	2	Resuscitation & Artificial respiration	Practical work	Practical exam
25	2	Physiology of Skeletal muscles	Practical work	Practical exam
26	2	Physiology of Skeletal muscles	Practical work	Practical exam
27	2	Physiology of Skeletal muscles	Practical work	Practical exam
28	2	Examination of reflexes (Motor Function)	Practical work	Practical exam
29	2	Seminars and examinations	Practical work	Practical exam
30	2	Seminars and examinations	Practical work	Practical exam

<b>11.Course Evaluation</b>	
Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc	
<b>12.Learning and Teaching Resources</b>	
Required textbooks (curricular books, if any)	Essentials of Physiology for Dental Students 2016 (K Sembulingam and Prema).
Main references (sources)	Text book of medical physiology 2017 (Guyton).
Recommended books and references (scientific journals, reports...)	Text book of medical physiology 2014 (N Geetha). Text book of Human physiology 2014 (Vanders).
Electronic References, Websites	Miscellaneous sources
Percentage of course update	5%

Name and signature of the course administrator	Name and signature of Head of the Department
<b>Assist Prof Salwan Waadallah Yousif</b>	<b>Prof Dr Ghada Abdulrahman Taqa</b>



## 10. Course Structure

### Theory part

Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2	Enzymes: Definition ,Terminology , and Classification	Enzymes	Theory lectures	Theory exam
2	2	Mechanism of enzyme action	Enzymes	Theory lectures	Theory exam
3	2	Clinical significance of enzyme assays	Enzymes	Theory lectures	Theory exam
4	2	Vitamins, definition, classification	Vitamins	Theory lectures	Theory exam
5	2	Digestion and absorption of carbohydrates, lipids ,and proteins	Digestion and absorption	Theory lectures	Theory exam
6	2	Chemistry of carbohydrates	Carbohydrates	Theory lectures	Theory exam
7	2	Metabolism of Carbohydrates - Part 1	Carbohydrates	Theory lectures	Theory exam
8	2	Metabolism of Carbohydrates - Part 2	Carbohydrates	Theory lectures	Theory exam
9	2	Carbohydrates metabolism regulation	Carbohydrates	Theory lectures	Theory exam
10	2	Chemistry of Proteins and amino acids	Proteins	Theory lectures	Theory exam
11	2	Metabolism of Proteins and amino acids	Proteins	Theory lectures	Theory exam
12	2	Metabolism of Protein and amino acid regulation	Proteins	Theory lectures	Theory exam
13	2	Metabolism of Protein and amino acid inherited disorder	Proteins	Theory lectures	Theory exam
14	2	Exam	Exam	Theory lectures	Theory exam
15	2	Lipids, definition and classification	Lipids	Theory lectures	Theory exam
16	2	Metabolism of Lipids Oxidation of Fatty Acids	Lipids	Theory lectures	Theory exam
17	2	Biosynthesis of Fatty Acids	Lipids	Theory lectures	Theory exam

## 10. Course Structure

### Theory part

Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
18	2	Integration of metabolism of carbohydrates, lipid ,and Proteins	Metabolism	Theory lectures	Theory exam
19	2	Metabolism of Purines and pyrimidines	Metabolism	Theory lectures	Theory exam
20	2	Metabolism of Purines and pyrimidines disorder	Metabolism	Theory lectures	Theory exam
21	2	Nucleic Acids Definition and Protein synthesis	Nucleic Acids	Theory lectures	Theory exam
22	2	Hormone definition, classification	Hormones	Theory lectures	Theory exam
23	2	Hormone disorder	Hormones	Theory lectures	Theory exam
24	2	Acid-base balance	Acid-base	Theory lectures	Theory exam
25	2	Trace elements disorder	Trace elements	Theory lectures	Theory exam
26	2	Salivary secretion (saliva), Pancreatic juice	Saliva	Theory lectures	Theory exam
27	2	electrolytes	Electrolytes	Theory lectures	Theory exam
28	2	Liver Function Test	Liver Function	Theory lectures	Theory exam
29	2	Kidney Function Test	Kidney Function	Theory lectures	Theory exam
30	2	Exam	Exam	Theory lectures	Theory exam

### Practical part

Week	Hr	Laboratory subject	Learning method	Evaluation method
1	2	Lab safety	Practical work	Practical exam
2	2	Sample collection - part 1	Practical work	Practical exam
3	2	Sample collection – part 2	Practical work	Practical exam

4	2	Spectrophotometer	Practical work	Practical exam
5	2	Standard Curve	Practical work	Practical exam
6	2	Blood glucose+ HbA1c	Practical work	Practical exam
7	2	Total Protein	Practical work	Practical exam
8	2	Albumin+ Globulin	Practical work	Practical exam
9	2	Troponin	Practical work	Practical exam
10	2	Liver function test (Bilirubin)	Practical work	Practical exam
11	2	Alkaline Phosphatase	Practical work	Practical exam
12	2	Transaminases (ALT & AST)	Practical work	Practical exam
13	2	Lipid in blood (cholesterol & lipoprotein)	Practical work	Practical exam
14	2	Triglyceride	Practical work	Practical exam
15	2	Kidney function Test (urea)	Practical work	Practical exam
16	2	Serum creatinine & creatinine clearness	Practical work	Practical exam
17	2	General Urine Analysis – part 1	Practical work	Practical exam
18	2	General Urine Analysis – part 2	Practical work	Practical exam
19	2	Uric acid	Practical work	Practical exam
20	2	Amylase in serum+ saliva	Practical work	Practical exam
21	2	Creatine phosphokinase	Practical work	Practical exam
22	2	lactate Dehydrogenase	Practical work	Practical exam
23	2	Serum calcium	Practical work	Practical exam
24	2	Serum phosphorus	Practical work	Practical exam
25	2	Serum Na	Practical work	Practical exam
26	2	Serum K	Practical work	Practical exam
27	2	Serum Iron	Practical work	Practical exam
28	2	Vitamin D	Practical work	Practical exam
29	2	Vitamin C	Practical work	Practical exam
30	2	Acid phosphatase	Practical work	Practical exam

<b>11.Course Evaluation</b>	
Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc	
<b>12.Learning and Teaching Resources</b>	
Required textbooks (curricular books, if any)	Harper's Illustrated Biochemistry, a LANGE medical book
Main references (sources)	Lippincott's Illustrated Reviews: Biochemistry Fifth Edition
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	
Percentage of course update	5%

Name and signature of the course administrator	Name and signature of Head of the Department
<b>Dr. Eman Salim</b>	<b>Prof Dr Ghada Abdulrahman Taqa</b>

## Course Description Form

<b>1. Course Name:</b>	
Oral Histology and Embryology	
<b>2. Course Code:</b>	
2266 OHISE	
<b>3. Semester / Year:</b>	
Second year	
<b>4. Description Preparation Date:</b>	
01 Dec 2025	
<b>5. Available Attendance Forms:</b>	
Theoretical and practical	
<b>6. Number of Credit Hours (Total) / Number of Units (Total)</b>	
Theoretical: 60 hours, practical: 60 hours. Total units: 6	
<b>7. Course administrator's name (mention all, if more than one name)</b>	
Name: Lect Sahar Ghanem <a href="mailto:saharghanem@uomosul.edu.iq">saharghanem@uomosul.edu.iq</a>	
Name: Lecturer Dr Abdulsattar Salim <a href="mailto:abdulsattarsalim@uomosul.edu.iq">abdulsattarsalim@uomosul.edu.iq</a>	
<b>8. Course Objectives</b>	
<b>Course Objectives</b>	<ul style="list-style-type: none"> <li>- Introduction to Oral Histology.</li> <li>- Knowledge about the histology of oral tissues.</li> <li>- Study different stages of the development of oral cavity parts.</li> </ul>
<b>9. Teaching and Learning Strategies</b>	
<b>Strategy</b>	<ul style="list-style-type: none"> <li>- Theory lectures and practical laboratories.</li> <li>- Educational videos and utilization of smart boards.</li> <li>- Use of educational models.</li> <li>- Focused student group discussion.</li> </ul>

<b>10. Course Structure</b>					
<b>Theory part</b>					
Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2	Embryogenesis, ovulation, fertilization and implantation	Embryogenesis	Theory lectures	Theory exam

## 10. Course Structure

### Theory part

Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
2	2	Bilaminar germ layer	Bilaminar germ	Theory lectures	Theory exam
3	2	Trilaminar germ layer: gastrulation and neurulation	Trilaminar germ	Theory lectures	Theory exam
4	2	Development of head and neck (pharyngeal arch, pouch and cleft)	Development of head and neck	Theory lectures	Theory exam
5	2	Development of face and anomalies	Development of face	Theory lectures	Theory exam
6	2	Development of tongue and anomalies	Development of tongue	Theory lectures	Theory exam
7	2	Development of palate and anomalies	Development of palate	Theory lectures	Theory exam
8	2	Slide preparation	Slide preparation	Theory lectures	Theory exam
9	2	Tooth development and developmental disturbances of teeth	Tooth development	Theory lectures	Theory exam
10	2	Dentinogenesis and dentin structure	Dentine	Theory lectures	Theory exam
11	2	Amelogenesis, Enamel structures	Enamel	Theory lectures	Theory exam
12	2	Clinical consideration for dentin and enamel	Clinical consideration	Theory lectures	Theory exam
13	2	Dental Pulp	Pulp	Theory lectures	Theory exam
14	2	Cementum and clinical consideration	Cementum	Theory lectures	Theory exam
15	2	Root formation and Cementogenesis	Cementum	Theory lectures	Theory exam
16	2	Periodontal ligaments	Periodontium	Theory lectures	Theory exam
17	2	Principles fiber of pdl and gingival fibers	Periodontium	Theory lectures	Theory exam
18	2	Alveolar bone	Bone	Theory lectures	Theory exam

## 10. Course Structure

### Theory part

Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
19	2	Bone formation and resorption	Bone	Theory lectures	Theory exam
20	2	Proteins involve in mineralization of bone and dentin	Bone	Theory lectures	Theory exam
21	2	Oral mucosa and their types	Oral mucosa	Theory lectures	Theory exam
22	2	Gingiva and dentogingival junction	Oral mucosa	Theory lectures	Theory exam
23	2	Eruption of teeth	Eruption	Theory lectures	Theory exam
24	2	Shedding of teeth	Shedding	Theory lectures	Theory exam
25	2	Salivary gland	Salivary gland	Theory lectures	Theory exam
26	2	Salivary proteins	Salivary gland	Theory lectures	Theory exam
27	2	TMJ	TMJ	Theory lectures	Theory exam
28	2	Maxillary sinus	Sinuses	Theory lectures	Theory exam
29	2	Histochemistry	Histochemistry	Theory lectures	Theory exam
30	2	Age changes of soft and hard tissues	Age changes	Theory lectures	Theory exam

<b>Practical part</b>				
<b>Week</b>	<b>Hr</b>	<b>Laboratory subject</b>	<b>Learning method</b>	<b>Evaluation method</b>
1	2	First week of development ovulation and implantation	Practical work	Practical exam
2	2	Second week of development: bilaminar germ layer	Practical work	Practical exam
3	2	Third week of development trilaminar germ layer	Practical work	Practical exam
4	2	Development of prechordal plate and primitive streak	Practical work	Practical exam
5	2	Pharyngeal arch, pouch and cleft	Practical work	Practical exam
6	2	Development of the face and tongue	Practical work	Practical exam
7	2	Development of the Palate and its anomalies	Practical work	Practical exam
8	2	Slide preparation, Tooth development and growth	Practical work	Practical exam
9	2	Tooth development and growth	Practical work	Practical exam
10	2	Dentinogenesis, Dentin structures	Practical work	Practical exam
11	2	Amelogenesis, Enamel structures	Practical work	Practical exam
12	2	Clinical consideration in enamel and dentin, Dentin hypersensitivity.	Practical work	Practical exam
13	2	Pulp development, pulp structures	Practical work	Practical exam
14	2	Root formation, Cementogenesis	Practical work	Practical exam
15	2	Cementum structures, Clinical consideration of cementum	Practical work	Practical exam
16	2	Periodontium, Periodontal ligaments	Practical work	Practical exam
17	2	Maxilla, mandible , alveolar bone	Practical work	Practical exam
18	2	Oral mucosa membrane, Types of mucosa	Practical work	Practical exam

<b>Practical part</b>				
<b>Week</b>	<b>Hr</b>	<b>Laboratory subject</b>	<b>Learning method</b>	<b>Evaluation method</b>
19	2	Eruption of teeth, Mechanism of eruption	Practical work	Practical exam
20	2	Shedding of the deciduous teeth, Dentino-gingival junction	Practical work	Practical exam
21	2	Temporo-mandibular joints, Maxillary sinus	Practical work	Practical exam
22	2	Histochemistry, Types of histochemical stain	Practical work	Practical exam
23	2	Facial anomalies ,Types of Twins	Practical work	Practical exam
24	2	Development of Digestive system, Congenital anomalies of Digestive system	Practical work	Practical exam
25	2	Development of nervous system, Congenital anomalies of nervous system	Practical work	Practical exam
26	2	Development of muscular system, Congenital anomalies of muscular system	Practical work	Practical exam
27	2	Development of skeletal system, Congenital anomalies of skeletal system	Practical work	Practical exam
28	2	Characterization of proteins involved in Dentin and Bone Mineralization	Practical work	Practical exam
29	2	Bone formation and resorption	Practical work	Practical exam
30	2	Salivary proteins and their relevance to mineral homeostasis	Practical work	Practical exam

### 11.Course Evaluation

Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc

### 12.Learning and Teaching Resources

Required textbooks (curricular books, if any)	Tencate oral histology and embryology
Main references (sources)	Essential oral histology and embryology
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	Atlas of oral histology
Percentage of course update	5%

Name and signature of the course administrator	Name and signature of Head of the Department
<b>Lect Sahar Ghanem</b>	<b>Assist Prof Dr Abdulsattar Salim</b>

## Course Description Form

<b>1. Course Name:</b>	
Crimes of Al-Ba'ath Party	
<b>2. Course Code:</b>	
2267 CBP	
<b>3. Semester / Year:</b>	
Second year / 2025-2026	
<b>4. Description Preparation Date:</b>	
01 Oct 2025	
<b>5. Available Attendance Forms:</b>	
Theoretical lectures	
<b>6. Number of Credit Hours (Total) / Number of Units (Total)</b>	
Theoretical: 30 hours. Total units: 2	
<b>7. Course administrator's name (mention all, if more than one name)</b>	
Name: Assist Lect Abdulkareem Zuhair Al-Shammari Email: ABDZuhair93@uomosul.edu.iq	
<b>8. Course Objectives</b>	
<b>Course Objectives</b>	<ul style="list-style-type: none"> <li>- History of the crimes of Al-Ba'ath party.</li> <li>- Educate the students about the human rights.</li> <li>- Support the families of the victims.</li> </ul>
<b>9. Teaching and Learning Strategies</b>	
<b>Strategy</b>	<ul style="list-style-type: none"> <li>- Theory lectures and practical laboratories.</li> <li>- Educational videos and utilization of smart boards.</li> </ul>

10. Course Structure					
Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2	Psychological and Social Crimes and the Major Violations of the Ba'ath Party	To identify the psychological and social crimes and the major violations	Theory lectures	Theory exam

<b>10. Course Structure</b>					
<b>Week</b>	<b>Hr</b>	<b>Required Learning Outcomes</b>	<b>Unit or subject name</b>	<b>Learning method</b>	<b>Evaluation method</b>
			committed by the Ba'ath Party		
2	1	Psychological Crimes	To identify psychological crimes	Theory lectures	Theory exam
3	1	Mechanisms of Psychological Crimes	To identify the mechanisms of psychological crimes	Theory lectures	Theory exam
4	1	Effects of Psychological Crimes	To identify the effects of psychological crimes	Theory lectures	Theory exam
5	1	Social Crimes	To identify social crimes	Theory lectures	Theory exam
6	1	Militarization of Society	To clarify the concept of the militarization of society	Theory lectures	Theory exam
7	1	The Ba'ath Party's Position on Religion	To identify the Ba'ath Party's position toward religion	Theory lectures	Theory exam
8	1	Violation of Iraqi Laws	To identify the violations of Iraqi laws	Theory lectures	Theory exam
9	1	Forms of Human Rights Violations	To identify the forms of human rights violations	Theory lectures	Theory exam
10	1	Some Political Violation Decisions	To identify some political violation decisions	Theory lectures	Theory exam
11	1	Locations of Prisons and Detention Centers	To identify the locations of prisons and detention centers	Theory lectures	Theory exam
12	1	Environmental Crimes of the Ba'ath Regime	To identify the environmental crimes of the Ba'ath regime	Theory lectures	Theory exam
13	1	War Pollution	To identify war-related pollution	Theory lectures	Theory exam

<b>10. Course Structure</b>					
<b>Week</b>	<b>Hr</b>	<b>Required Learning Outcomes</b>	<b>Unit or subject name</b>	<b>Learning method</b>	<b>Evaluation method</b>
14	1	Destruction of Cities and Villages	To identify the destruction of cities and villages	Theory lectures	Theory exam
15	2	Draining of the Marshlands	To identify the draining of the marshlands	Theory lectures	Theory exam
15	2	Uprooting of Orchards	To identify the uprooting of orchards	Theory lectures	Theory exam
16	1	Mass Graves	To identify mass graves	Theory lectures	Theory exam
17	1	Events of Genocide Mass Graves	To identify the events related to genocide mass graves	Theory lectures	Theory exam
18	1	Symbolic Classification of Genocide Mass Graves	To identify the symbolic classification of genocide mass graves	Theory lectures	Theory exam
19	1	Presentation of Genocide Crime Documents	To identify documents related to genocide crimes	Theory lectures	Theory exam
20	2	Presentation of Criminal Court Decisions	To identify the decisions of the criminal court	Theory lectures	Theory exam
21	2	Accusations Directed at the Former Regime	To identify the accusations directed at the former regime	Theory lectures	Theory exam
22	2	Presentation of Photographic Documents of Crimes	Photographic documentation of crimes	Theory lectures	Theory exam
23	2	Presentation of Photographic Documents of Crimes	Viewing and presenting photographic documents of crimes	Theory lectures	Theory exam

### 11.Course Evaluation

Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc

### 12.Learning and Teaching Resources

Required textbooks (curricular books, if any)	
Main references (sources)	
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	
Percentage of course update	5%

Name and signature of the course administrator	Name and signature of Head of the Department
<b>Assist Lect Abdulkareem Zuhair</b>	<b>Prof Dr Ghada Abdulrahman Taqa</b>

## Course Description Form

<b>1. Course Name:</b>	
Dental Materials	
<b>2. Course Code:</b>	
2268 DM	
<b>3. Semester / Year:</b>	
Second year / 2025-2026	
<b>4. Description Preparation Date:</b>	
01 Nov 2025	
<b>5. Available Attendance Forms:</b>	
Theoretical and practical	
<b>6. Number of Credit Hours (Total) / Number of Units (Total)</b>	
Theoretical: 30 hours, practical: 60 hours. Total units: 4	
<b>7. Course administrator's name (mention all, if more than one name)</b>	
Name: Lecturer Dr Ali Salah Khaza'al <a href="mailto:alisk2012@uomosul.edu.iq">alisk2012@uomosul.edu.iq</a> Dr Ali Khalil Hassan Marie <a href="mailto:ali.marie@uomosul.edu.iq">ali.marie@uomosul.edu.iq</a> Lect Ahmed Waddallah	
<b>8. Course Objectives</b>	
<b>Course Objectives</b>	<ul style="list-style-type: none"> <li>- Introduction to Dental Materials.</li> <li>- Study of principles of material mechanical properties.</li> <li>- Study of the requirements for a variety of dental materials .</li> <li>- Practical manipulation of a variety of dental materials.</li> </ul>
<b>9. Teaching and Learning Strategies</b>	
<b>Strategy</b>	<ul style="list-style-type: none"> <li>- Theory lectures and practical laboratories.</li> <li>- Educational videos and utilization of smart boards.</li> <li>- Use of educational models.</li> <li>- Focused student group discussion.</li> </ul>

## 10. Course Structure

### Theory part

Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	1	Introduction to dental materials, Physical, chemical and biological properties of dental materials	Introduction and physical properties of dental material	Theory lectures	Theory exam
2	1	Mechanical properties	Mechanical properties	Theory lectures	Theory exam
3	1	Definition, requirement, types, gypsum bonded investment	Gypsum materials	Theory lectures	Theory exam
4	1	phosphate bonded investment, ethyl silicate bonded	Gypsum materials	Theory lectures	Theory exam
5	1	Definition, Ideal properties of impression materials,	Impression materials	Theory lectures	Theory exam
6	1	Classification of impression materials, Non elastic impression materials	Impression materials	Theory lectures	Theory exam
7	1	Impression plaster, Impression compound	Impression materials	Theory lectures	Theory exam
8	1	Zinc oxide – eugenol,	Impression materials	Theory lectures	Theory exam
9	1	Elastomeric impression material	Impression materials	Theory lectures	Theory exam
10	1	Definition, Requirements, classification of wax according to origin & melting point,	Waxes	Theory lectures	Theory exam
11	1	classification of wax according to uses, properties of dental waxes.	Waxes	Theory lectures	Theory exam
12	1	Polymers and polymerization Definition of polymer, co-polymer, cross-link polymer and Degree of polymerization Factors which control structure and properties of polymer	Polymers	Theory lectures	Theory exam

## 10. Course Structure

### Theory part

Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
		Types of polymerization, Heat activated acrylic, Composition, Properties Chemically activated resin, Composition, Properties			
13	1	Light activated resin, Composition, Properties Chemically activated resin compared to heat activated resins Polymers used in dentistry Processing errors	Polymers	Theory lectures	Theory exam
14	1	factors affecting setting time, setting expansion, strength, storage and manipulation of gypsum products, and hygroscopic expansion	Investment materials	Theory lectures	Theory exam
15	1	Classification of dental cements, Definition, Requirements	Cement materials	Theory lectures	Theory exam
16	1	Definition, indication, Types, Requirements	Temporary filling	Theory lectures	Theory exam
17	1	Metallic denture base materials, Types of metal and metal alloys, Definition of alloy, Requirement of casting alloy, Application of dental alloy	Metal and metal alloy	Theory lectures	Theory exam
18	1	Classification of metal, classification of dental alloy, gold foil (advantage, disadvantages), gold alloys, Composition, Properties	Metal and metal alloy	Theory lectures	Theory exam
19	1	Alternative of gold alloys Metal ceramic alloys, Requirement, Types Removable denture base alloys, Requirements, Types Co-Cr alloy, Application, Composition, properties,	Metal and metal alloy	Theory lectures	Theory exam

## 10. Course Structure

### Theory part

Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
		Advantages, Disadvantages			
20	1	Titanium and Titanium alloys, Applications, Properties, Ni/Cr alloys, Composition, Indications, Wrought stainless steel alloy	Metal and metal alloy	Theory lectures	Theory exam
21	1	Direct filling material, Definition, Factors causing loss of tooth substance	Filling materials	Theory lectures	Theory exam
22	1	Requirement of an ideal filling material. Classification of filling material Anterior filling materials, Disadvantages	Filling materials	Theory lectures	Theory exam
23	1	Composite filling materials composition and structure, Types of composite	Filling materials	Theory lectures	Theory exam
24	1	Posterior filling materials Dental amalgam Classification of amalgam alloys Properties of set amalgam Shaping and finishing Mercury toxicity	Filling materials	Theory lectures	Theory exam
25	1	Preventive materials	Preventive materials	Theory lectures	Theory exam
26	1	Root canal filling materials (obturating materials)	Root canal filling materials	Theory lectures	Theory exam
27	1	Finishing and polishing material	Finishing and polishing	Theory lectures	Theory exam
28	1	Definition, Types, Requirements, Indication, Soft liners, Types, Requirements, Indication, Properties	Relining material	Theory lectures	Theory exam
29	1	Implant materials	Implant materials	Theory lectures	Theory exam

## 10. Course Structure

### Theory part

Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
30	1	Maxillofacial materials	Maxillofacial materials	Theory lectures	Theory exam

### Practical part

Week	Hr	Laboratory subject	Learning method	Evaluation method
1	2	Introduction and physical properties of dental material	Practical work	Practical exam
2	2	Mechanical properties (stress strain curve)	Practical work	Practical exam
3	2	Showing different types of gypsum materials (plaster and stone)	Practical work	Practical exam
4	2	Steps of mixing plaster and demonstrate the steps of setting	Practical work	Practical exam
5	2	Impression plaster, demonstrate the manipulation of impression compound	Practical work	Practical exam
6	2	Zinc oxide impression material and agar impression demonstrate the mixing of zinc oxide impression	Practical work	Practical exam
7	2	Alginate impression (elastic impression) showing the trays used and mixing of alginate and water according to manufacturer instructions	Practical work	Practical exam
8	2	Polysulphide, condensation and addition silicon\mixing of heavy body and light body	Practical work	Practical exam
9	2	Polyether, hybrid impression, digital impression	Practical work	Practical exam
10	2	Showing different types of wax (denture base plate, denture casting wax and others	Practical work	Practical exam
11	2	Demonstrate how to use wax material and its manipulation	Practical work	Practical exam
12	2	Introduction to polymers	Practical work	Practical exam
13	2	Different types of denture base materials( heat, cold and light	Practical work	Practical exam
14	2	activated polymers) demonstrate the mixing of polymer and monomer	Practical work	Practical exam
15	2	Thermoplastic polymers (flexible denture base material)	Practical work	Practical exam

<b>Practical part</b>				
<b>Week</b>	<b>Hr</b>	<b>Laboratory subject</b>	<b>Learning method</b>	<b>Evaluation method</b>
16	2	Investment materials (showing the method of the investment)	Practical work	Practical exam
17	2	Introduction to cement materials	Practical work	Practical exam
18	2	Showing different types of cement materials and the method of mixing of cement	Practical work	Practical exam
19	2	Temporary filling (use and manipulation)	Practical work	Practical exam
20	2	Introduction to metal and metal alloy	Practical work	Practical exam
21	2	Showing the different types of metal and metal alloy	Practical work	Practical exam
22	2	Introduction to crown and bridge material	Practical work	Practical exam
23	2	Introduction to filling material	Practical work	Practical exam
24	2	Amalgam filling showing the amalgam capsules and mixing of amalgam	Practical work	Practical exam
25	2	Composite filing (chemical and light activated)	Practical work	Practical exam
26	2	Micro filled, hybrid, and nano-composite	Practical work	Practical exam
27	2	Demonstrate the setting of chemical and light activated composite filling material	Practical work	Practical exam
28	2	Showing different types of preventive materials (tooth pastes, gargles. Mouth wash fluoride varnishes and resin sealers)	Practical work	Practical exam
29	2	Demonstrate the obturating materials (Gutta percha, sealers) and endodontic instruments	Practical work	Practical exam
30	2	Finishing and polishing materials	Practical work	Practical exam

<b>11.Course Evaluation</b>	
Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc	
<b>12.Learning and Teaching Resources</b>	
Required textbooks (curricular books, if any)	Criag restorative dental materials Philips Applied Dental Materials Dental materials their selection and use
Main references (sources)	
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	
Percentage of course update	3%

Name and signature of the course administrator	Name and signature of Head of the Department
<b>Lect Dr Ali Salah Khazaal</b>	<b>Lect Dr Inas Aziz Mohammed</b>

## Course Description Form

<b>1. Course Name:</b>	
Computer	
<b>2. Course Code:</b>	
2269 PROG	
<b>3. Semester / Year:</b>	
First year	
<b>4. Description Preparation Date:</b>	
01 Dec 2025	
<b>5. Available Attendance Forms:</b>	
Theoretical and practical	
<b>6. Number of Credit Hours (Total) / Number of Units (Total)</b>	
Theoretical: 15 hours, practical: 30 hours. Total units: 2	
<b>7. Course administrator's name (mention all, if more than one name)</b>	
Prof Dr Faris Altaee <span style="float: right;">drfarisaltaee@uomosul.edu.iq</span>	
Assist Prof Dr Reem Aljaraah <span style="float: right;">aljaraah@uomosul.edu.iq</span>	
Assist Prof Shahla Kharofa <span style="float: right;">shahlakharofa@uomosul.edu.iq</span>	
Lect Dr Ali Tariq Khalil <span style="float: right;">ali.khalil1987@uomosul.edu.iq</span>	
Assist Lect Ahmed Khalid <span style="float: right;">ahmedkhalid@uomosul.edu.iq</span>	
Assist Lect Ahmed Alwazan <span style="float: right;">ahmed.alwazan@uomosul.edu.iq</span>	
<b>8. Course Objectives</b>	
<b>Course Objectives</b>	<ul style="list-style-type: none"> <li>- Introduction to computer sciences.</li> <li>- Study of computer software related to dentistry.</li> <li>- Practical hand-on using Microsoft Office suite.</li> <li>- Practical hand-on using SPSS</li> </ul>
<b>9. Teaching and Learning Strategies</b>	
<b>Strategy</b>	<ul style="list-style-type: none"> <li>- Theory lectures and practical laboratories.</li> <li>- Educational videos and utilization of smart boards.</li> <li>- Use of educational models.</li> <li>- Focused student group discussion.</li> </ul>

## 10. Course Structure

### Theory Part

Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	1	Introduction about computer, Hardware and Software, computer structure, Floppy magnetic disks	Introduction	Theory lectures	Theory exam
2	1	E-learning	E-learning	Theory lectures	Theory exam
3	1	Google Classroom Platform, Google drive	E-learning	Theory lectures	Theory exam
4	1	Google forms	E-learning	Theory lectures	Theory exam
5	1	Online conferencing	E-learning	Theory lectures	Theory exam
6	1	Introduction about Windows, A look at Windows 10, Stating Windows 10, Working with a windows Programs	Windows	Theory lectures	Theory exam
7	1	Working with files and folders, Using My computer	Windows	Theory lectures	Theory exam
8	1	Working with Taskbar and Desktop	Windows	Theory lectures	Theory exam
9	1	Using Windows Accessories	Windows	Theory lectures	Theory exam
10	1	A look at Control Panel	Windows	Theory lectures	Theory exam
11	1	Windows Explorer	Windows	Theory lectures	Theory exam
12	1	Libraries	Windows	Theory lectures	Theory exam
13	1	Introduction about Microsoft Word 2016, A look at Microsoft Word, Editing Document	Microsoft Word	Theory lectures	Theory exam
14	1	Formatting Text	Microsoft Word	Theory lectures	Theory exam
15	1	Formatting paragraphs	Microsoft Word	Theory lectures	Theory exam
16	1	Proofing documents	Microsoft Word	Theory lectures	Theory exam
17	1	Adding Tables	Microsoft Word	Theory lectures	Theory exam

## 10. Course Structure

### Theory Part

Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
18	1	Inserting Graphic Elements	Microsoft Word	Theory lectures	Theory exam
19	1	Controlling page Appearance	Microsoft Word	Theory lectures	Theory exam
20	1	Introduction about Excel, A Look at Microsoft Excel	Microsoft Excel	Theory lectures	Theory exam
21	1	Modifying A Worksheet , performing Calculations	Microsoft Excel Microsoft Excel	Theory lectures	Theory exam
22	1	Formatting a worksheet, Developing a workbook	Microsoft Excel	Theory lectures	Theory exam
23	1	Printing Workbook Contents, Customizing Layout	Microsoft Excel	Theory lectures	Theory exam
24	1	Introduction about Microsoft Access, A look at Microsoft Access	Microsoft Access	Theory lectures	Theory exam
25	1	Creating Data tables, properties of the fields	Microsoft Access	Theory lectures	Theory exam
26	1	Querying the database, Designing Forms/Producing reports	Microsoft Access	Theory lectures	Theory exam
27	0.5	Introduction about Microsoft Power point, starting power point 2016	Microsoft Power point	Theory lectures	Theory exam
28	0.5	Formatting text, Using graphics and Text	Microsoft Power point	Theory lectures	Theory exam
29	0.5	Manipulating the slides, Using Multimedia Elements	Microsoft Power point	Theory lectures	Theory exam
30	0.5	Power point Management	Microsoft Power point	Theory lectures	Theory exam

<b>Practical part</b>				
<b>Week</b>	<b>Hr</b>	<b>Laboratory subject</b>	<b>Learning method</b>	<b>Evaluation method</b>
1	1	Introduction about computer /Hardware and Software/computer structure/ Floppy magnetic disks	Practical work	Practical exam
2	1	Operating systems/CD-ROM/	Practical work	Practical exam
3	1	Create Files &Folders High level programming language /Constant and variable/Library Function /Arithmetic expression/Type of Monitor /Number of systems	Practical work	Practical exam
4	1	Introduction about MS-DOS Operating systems/DOS drive /Key-Board	Practical work	Practical exam
5	1	DOS commands /Internal Commands/External Commands	Practical work	Practical exam
6	1	Introduction about Windows /A look at Windows 7/Stating Windows 7/Working with a windows Program	Practical work	Practical exam
7	1	Working with files and folders/ Using My computer	Practical work	Practical exam
8	1	Working with Taskbar and Desktop	Practical work	Practical exam
9	1	Using Windows Accessories	Practical work	Practical exam
10	1	A look at Control Panel	Practical work	Practical exam
11	1	Windows Explorer	Practical work	Practical exam
12	1	Libraries	Practical work	Practical exam
13	1	Introduction about Microsoft Word A look at Microsoft Word /Editing Document	Practical work	Practical exam
14	1	Formatting Text/	Practical work	Practical exam
15	1	Formatting paragraphs	Practical work	Practical exam
16	1	Proofing documents	Practical work	Practical exam

<b>Practical part</b>				
<b>Week</b>	<b>Hr</b>	<b>Laboratory subject</b>	<b>Learning method</b>	<b>Evaluation method</b>
17	1	Adding Tables	Practical work	Practical exam
18	1	Inserting Graphic Elements	Practical work	Practical exam
19	1	Controlling page Appearance	Practical work	Practical exam
20	1	Introduction about Excels /A Look at Microsoft Excel	Practical work	Practical exam
21	1	Modifying A Worksheet /performing Calculations	Practical work	Practical exam
22	1	Formatting a worksheet/ Developing a work book	Practical work	Practical exam
23	1	Printing Workbook Contents/Customizing Layout	Practical work	Practical exam
24	1	Introduction about Microsoft Access/ A look at Microsoft Access	Practical work	Practical exam
25	1	Creating Data tables /properties of the fields	Practical work	Practical exam
26	1	Querying the database/Designing Forms/Producing reports	Practical work	Practical exam
27	0.5	Introduction about Microsoft Power point/starting power point	Practical work	Practical exam
28	0.5	Formatting text/Using graphics and Text	Practical work	Practical exam
29	0.5	Manipulating the slides/Using Multimedia Elements	Practical work	Practical exam
30	0.5	Power point Management	Practical work	Practical exam

<b>11.Course Evaluation</b>	
Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc	
<b>12.Learning and Teaching Resources</b>	
Required textbooks (curricular books, if any)	1. Principles of computers – Volume 1 Vol 2 and Vol 3 2. Principles of Network – Vol 1 3. AI technology.
Main references (sources)	Cambridge IGCSE Information and Communication Technology, 3 <sup>rd</sup> Edition 2020 Technology In Action Complete 16 <sup>th</sup> Edition 2020
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	
Percentage of course update	3%

Name and signature of the course administrator	Name and signature of Head of the Department
<b>Prof Dr Faris Altae</b>	<b>Prof Dr Ghada Abdulrahman Taqa</b>

## Course Description Form

<b>1. Course Name:</b>	
Arabic language	
<b>2. Course Code:</b>	
22610 ARA	
<b>3. Semester / Year:</b>	
Second year / 2025-2026	
<b>4. Description Preparation Date:</b>	
01 Oct 2025	
<b>5. Available Attendance Forms:</b>	
Theoretical lectures	
<b>6. Number of Credit Hours (Total) / Number of Units (Total)</b>	
Theoretical: 30 hours. Total units: 2	
<b>7. Course administrator's name (mention all, if more than one name)</b>	
Name: Assist Prof Dr Khalid Hazim Al-Hadidi Email: : khalid.h.e@uomosul.edu.iq	
<b>8. Course Objectives</b>	
<b>Course Objectives</b>	- Enabling the student to acquire the information that helps them understand the fundamentals of the language and its importance in enhancing the student's culture, improving their writing and research skills, and avoiding some common spelling mistakes.
<b>9. Teaching and Learning Strategies</b>	
<b>Strategy</b>	<ul style="list-style-type: none"> <li>- Theory lectures and practical laboratories.</li> <li>- Educational videos and utilization of smart boards.</li> </ul>

10. Course Structure					
Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2	Parts of Speech	Parts of Speech	Theory lectures	Theory exam

<b>10. Course Structure</b>					
<b>Week</b>	<b>Hr</b>	<b>Required Learning Outcomes</b>	<b>Unit or subject name</b>	<b>Learning method</b>	<b>Evaluation method</b>
2	2	Signs of the Noun	Signs of the Noun	Theory lectures	Theory exam
3	2	Signs of the Verb	Signs of the Verb	Theory lectures	Theory exam
4	2	Declined and Indeclinable Words	Declined and Indeclinable Words	Theory lectures	Theory exam
5	2	The Life and Poetry of Al-Ma'arri	The Life and Poetry of Al-Ma'arri	Theory lectures	Theory exam
6	2	Writing the Hamza	Writing the Hamza	Theory lectures	Theory exam
7	2	Review and Examination	Review and Examination	Theory lectures	Theory exam
8	2	Morphological Pattern (Al-Mizan Al-Sarfi)	Morphological Pattern (Al-Mizan Al-Sarfi)	Theory lectures	Theory exam
9	2	Weak Verbs	Weak Verbs	Theory lectures	Theory exam
10	2	The Five Nouns	The Five Nouns	Theory lectures	Theory exam
11	2	Predicate and Subject	Predicate and Subject	Theory lectures	Theory exam
12	2	Original Grammatical Case Markers	Original Grammatical Case Markers	Theory lectures	Theory exam
13	2	Secondary Grammatical Case Markers	Secondary Grammatical Case Markers	Theory lectures	Theory exam
14	2	The Verbal Sentence	The Verbal Sentence	Theory lectures	Theory exam
15	2	Review and Examination	Review and Examination	Theory lectures	Theory exam

<b>11.Course Evaluation</b>	
Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc	
<b>12.Learning and Teaching Resources</b>	
Required textbooks (curricular books, if any)	
Main references (sources)	
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	
Percentage of course update	5%

Name and signature of the course administrator	Name and signature of Head of the Department
<b>Assist Prof Dr Khalid Hazim Al-Hadiddi</b>	<b>Prof Dr Ghada Abdulrahman Taqa</b>

## Course Description – Third year

### Course Description Form

<b>1. Course Name:</b>	
Prosthodontics	
<b>2. Course Code:</b>	
301 PROS	
<b>3. Semester / Year:</b>	
Third year / 2025-2026	
<b>4. Description Preparation Date:</b>	
01 Dec 2025	
<b>5. Available Attendance Forms:</b>	
Theoretical and practical	
<b>6. Number of Credit Hours (Total) / Number of Units (Total)</b>	
Theoretical: 30 hours, practical: 60 hours. Total units: 4	
<b>7. Course administrator's name (mention all, if more than one name)</b>	
Name: Assistant Prof Luma Muthafar	Email: <a href="mailto:Luma2005@uomosul.edu.iq">Luma2005@uomosul.edu.iq</a>
Lect Saja Amjad	<a href="mailto:Saja2010@uomosul.edu.iq">Saja2010@uomosul.edu.iq</a>
Lect Dr Munia Qandeel	<a href="mailto:Munia2012@uomosul.edu.iq">Munia2012@uomosul.edu.iq</a>
Lect Omar Zeno Al-Taho	<a href="mailto:omar1980zeno@uomosul.edu.iq">omar1980zeno@uomosul.edu.iq</a>
Lect Hamza Salim Shakir	<a href="mailto:hamza2011@uomosul.edu.iq">hamza2011@uomosul.edu.iq</a>
Assist Lect Hind Abdulqadir	<a href="mailto:Hind2013@uomosul.edu.iq">Hind2013@uomosul.edu.iq</a>
<b>8. Course Objectives</b>	
<b>Course Objectives</b>	<ul style="list-style-type: none"> <li>- Introduction to partial dentures.</li> <li>- Study of principles of biomechanics.</li> <li>- Study types of clasps, major and minor connectors.</li> <li>- Denture base materials for partial dentures.</li> </ul>
<b>9. Teaching and Learning Strategies</b>	
<b>Strategy</b>	<ul style="list-style-type: none"> <li>- Theory lectures and practical laboratories.</li> <li>- Educational videos and utilization of smart boards.</li> <li>- Use of educational models.</li> <li>- Focused student group discussion.</li> </ul>

## 10. Course Structure

### Theory part

Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	1	Removable partial denture (RPD), Objectives for RPD construction, Causes of teeth loss, Indications of removable partial dentures. Fixed partial denture, Indications for fixed partial denture. Dental implant therapy, Contraindications for dental implant therapy. Terminology and re- finishing	Introduction to Removable Partial Dentures	Theory lectures	Theory exam
2	1	Need for classification Requirements of an acceptable method of classification Removable partial dentures may be classified according to the type of support Removable partial dentures may be classified according to the type of material Removable partial dentures may be classified according to the type of treatment Classification based on arch configuration Kennedy – Applegate – Fiset classification system. Applegate’s rules governing the application of the Kennedy classification method	Classification of Partially Edentulous arches	Theory lectures	Theory exam
3	1	The ideal requirements for successful removable partial denture Purposes (Objective) of Surveying the Diagnostic Cast Advantages of single path of placement (insertion) Guiding planes Dental surveyor Types of dental surveyors Parts of dental surveyor (Ney type surveyor)	Surveying	Theory lectures	Theory exam

## 10. Course Structure

### Theory part

Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
4	1	Principles of surveying Types of undercuts established by surveying Factors that determine and affect the path of placement (insertion) and removal of the RPD, rules of surveying	Surveying	Theory lectures	Theory exam
5	1	Main components of RPD Major connectors; Requirements of major connectors Guidelines for design and location of major connectors Characteristics of major connectors	Parts of Removable Partial Denture	Theory lectures	Theory exam
6	1	Special Structural Requirements for Maxillary Major Connectors Types of Maxillary Major Connector; Single palatal bar, Single palatal strap, Anterior-posterior palatal bars, Combination anterior and posterior palatal strap-type connector, Palatal plate-type connector, U-shaped palatal connector.	Maxillary Major Connectors	Theory lectures	Theory exam
7	1	Special structural requirements Types of mandibular major connectors; Lingual bar, Methods that may be used to determine the relative height of the floor of the mouth. Lingual plate (linguoplate), The indications for the use of linguoplate. Double lingual bar (lingual bar with cingulum bar), Indications for use of double lingual bar Labial bar, Indications for use of labial bar Characteristics and location	Mandibular Major Connectors	Theory lectures	Theory exam
8	1	Definition, Functions Form & location Basic types of minor connectors; Tissue stops, Finishing lines	Minor Connectors	Theory lectures	Theory exam

## 10. Course Structure

### Theory part

Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
		Reaction of Tissue to Metallic Coverage			
9	1	The purposes of the rest in general Occlusal Rest, Extended Occlusal Rest, Interproximal Occlusal Rest, Internal Occlusal Rests, Occlusal Rest Seat Preparation, Occlusal Rests on Amalgam Restorations, Occlusal Rest on Crowns, Lingual Rests (Cingulum Rest), Incisal Rests and Rest Seats, Implants as a Rest	Rests and Rest Seats	Theory lectures	Theory exam
10	1	Direct retainers Indirect retainers The extra coronal retainer (Clasp type), Component parts, Function, and position of clasp assembly parts, Factors affecting the magnitude of retention, The basic principles of clasp design	Retention and Removable Partial Denture Retainers	Theory lectures	Theory exam
11	1	Clasps designed without movement accommodation. Circumferential (Circle or Akers) clasp Ring-type clasp Embrasure (double Akers) clasp Back action clasp Multiple clasps Half-and-half Clasp Reverse-action clasp (Hairpin) Disadvantages of circumferential clasps in summary Clasps designed to accommodate distal extension functional movement RPI clasp, Bar-type clasp assembly, RPA clasp; Akers clasp, Infra-bulge clasp, Combination clasp	Extra Coronal Direct Retainers (Types of clasp assemblies)	Theory lectures	Theory exam
12	1	Internal attachments Precision Attachments	Intra-coronal Direct	Theory lectures	Theory exam

## 10. Course Structure

### Theory part

Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
		Some indications for precision attachments Some of the contraindications for precision attachments The main types of precision attachments Selection of an Attachment for a Removable Partial Denture	Retainers (Internal Attachments, Precision Attachments)		
13	1	Stress breakers Types of stress breakers	Stress-Breakers	Theory lectures	Theory exam
14	1	The main factors influencing the effectiveness of an indirect retainer The auxiliary functions of indirect retainers Forms of Indirect Retainers	Indirect Retainers	Theory lectures	Theory exam
15	1	Auxiliary occlusal rest Lingual rest, Incisal rest Canine extensions from occlusal rest, Cingulum bars (continuous bars) and linguo-plates Modification areas, Rugae support	Indirect Retainers (continue)	Theory lectures	Theory exam
16	1	Block-out and relief Cast preparation Types of block-out of master cast; Parallel block-out, Shaped block-out, Arbitrary block-out, Relieving the master cast Purpose of relief Sites Tissue Stops	Laboratory procedures: Blockout and Relief	Theory lectures	Theory exam
17	1	Duplicating a stone cast Duplicating material and flask Impression Refractory cast	Laboratory procedures: Duplication and Refractory Cast Construction	Theory lectures	Theory exam
18	1	Waxing the framework Spruing General rules for spruing Investing the sprued pattern	Laboratory: Wax Pattern	Theory lectures	Theory exam

## 10. Course Structure

### Theory part

Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
		Purpose of investment Burnout			
19	1	Casting Casting recovery Finishing the framework Sprue removal	Laboratory procedures: Casting and Finishing	Theory lectures	Theory exam
20	1	The primary function of denture base Types of denture base according to support Types of the denture base according to materials Advantages of metal denture base Disadvantages of metal denture base Design consideration of denture base Periodontal consideration of denture base design Types of artificial teeth	Denture Base in RPD	Theory lectures	Theory exam
21	1	Record bases Types of record bases according to materials constructed from it Occlusion rims: Occlusion rims for static jaw relation records Occlusion rims for recording functional or dynamic jaw relationship record Mounting casts on the articulator Arrangement of artificial teeth to the opposing cast Principles that should be taken during arrangement of artificial teeth Laboratory procedure of arrangement teeth	Record Bases, Occlusion Rims, Mounting and Arrangement of Teeth	Theory lectures	Theory exam
22	1	Biomechanical considerations Possible movements of partial dentures Tooth-tissue-supported prosthesis	Biomechanics of Removable	Theory lectures	Theory exam

## 10. Course Structure

### Theory part

Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
			Partial Dentures		
23	1	Tooth-supported partial denture Occlusal Rest Seat Preparation and Denture Movement Impact of Implants on Movements of Partial Dentures	Biomechanics of Removable Partial Dentures (continue)	Theory lectures	Theory exam
24	1	Difference in Prosthesis Support and Influence on Design Differentiation Between Two Main Types of Removable Partial Dentures	Principles of Removable Partial Denture Design	Theory lectures	Theory exam
25	1	Components of Partial Denture Design Implant Considerations in Design	Principles of Removable Partial Denture Design	Theory lectures	Theory exam
26	1	1st Phase: Education of patient 2nd Phase: Diagnosis, Treatment Planning, Design, Treatment Sequencing, and Mouth Preparation 3rd Phase: Support for Distal Extension Denture Bases 4th Phase: Establishment and Verification of Occlusal Relations and Tooth Arrangements 5th Phase: Initial Placement Procedures 6th phase: Periodic Recall	Clinical Phases of Removable Partial Denture Construction.	Theory lectures	Theory exam
27	1	Acrylic removable partial dentures Appearance Maintenance of space Reestablishment of occlusal relationships Conditioning of teeth and residual ridges Interim restoration during treatment Conditioning the patient for	Acrylic Removable Partial Dentures	Theory lectures	Theory exam

## 10. Course Structure

### Theory part

Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
		wearing a prosthesis Clinical procedure for placement			
28	1	Flexible removable partial dentures Type of material used for the flexible denture, Support and Retention	Flexible Removable Partial Dentures	Theory lectures	Theory exam
29	1	Broken clasp arms Several reasons for breakage of clasp arms Fractured occlusal rests Distortion or breakage of other components – major and minor connectors Addition of a new artificial tooth to a RPD Repair by soldering	Repairs and Additions to Removable Partial Dentures	Theory lectures	Theory exam
30	1	Components of CAD/CAM system Types of Digital Scanner Digital RPD Framework Design (step by step) Digital Fabrication Process	Digitally Designed & Fabrication Process of RPD Framework Using CAD/CAM System	Theory lectures	Theory exam

### Practical part

Week	Hr	Laboratory subject	Learning method	Evaluation method
1	1	Introduction to Removable Partial Dentures	Practical work	Practical exam
2	1	Kennedy Classification	Practical work	Practical exam
3	1	Cast Trimming	Practical work	Practical exam

<b>Practical part</b>				
<b>Week</b>	<b>Hr</b>	<b>Laboratory subject</b>	<b>Learning method</b>	<b>Evaluation method</b>
4	1	Surveying	Practical work	Practical exam
5	1	Surveying	Practical work	Practical exam
6	1	Wire Bending	Practical work	Practical exam
7	1	Wire Bending	Practical work	Practical exam
8	1	Acrylic Removable Partial Denture Design	Practical work	Practical exam
9	1	Acrylic Removable Partial Denture Design	Practical work	Practical exam
10	1	Acrylic Removable Partial Denture Design	Practical work	Practical exam
11	1	Flexible Partial Denture Design	Practical work	Practical exam
12	1	Flexible Partial Denture Design	Practical work	Practical exam
13	1	Flexible Partial Denture Design	Practical work	Practical exam
14	1	Flexible Partial Denture Design	Practical work	Practical exam
15	1	Principles of 2D Design for the Removable Partial Denture s	Practical work	Practical exam
16	1	Principles of 2D Design for the Removable Partial Denture s	Practical work	Practical exam
17	1	Principles of Drawing 2D Design for the Removable Partial Dentures	Practical work	Practical exam
18	1	2D Design for Mandibular & Maxillary Arches	Practical work	Practical exam
19	1	2D Design for Mandibular & Maxillary Arches	Practical work	Practical exam
20	1	2D Design for Mandibular & Maxillary Arches	Practical work	Practical exam
21	1	Drawing Removable Partial Denture 3D Design & CAD/CAM	Practical work	Practical exam
22	1	Drawing Removable Partial Denture 3D Design & CAD/CAM	Practical work	Practical exam
23	1	Types of Rests	Practical work	Practical exam

<b>Practical part</b>				
<b>Week</b>	<b>Hr</b>	<b>Laboratory subject</b>	<b>Learning method</b>	<b>Evaluation method</b>
24	1	Rest Seat Preparation	Practical work	Practical exam
25	1	Block Out and Relief	Practical work	Practical exam
26	1	Block Out and Relief	Practical work	Practical exam
27	1	Duplication Of the Master Cast	Practical work	Practical exam
28	1	Wax Pattern for the Removable Partial Denture Framework	Practical work	Practical exam
29	1	Wax Pattern for the Removable Partial Denture Framework	Practical work	Practical exam
30	1	Framework Fabrication	Practical work	Practical exam

### 11.Course Evaluation

Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc

### 12.Learning and Teaching Resources

Required textbooks (curricular books, if any)	
Main references (sources)	
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	
Percentage of course update	5%
Name and signature of the course administrator	Name and signature of Head of the Department
<b>Assist Prof Dr Luma Muthafar Al-Nema</b>	<b>Lect Dr Inas Aziz Mohammed</b>

## Course Description Form

<b>1. Course Name:</b>	
Oral Surgery	
<b>2. Course Code:</b>	
2 OSUR326	
<b>3. Semester / Year:</b>	
Third year / 2025-2026	
<b>4. Description Preparation Date:</b>	
01 Dec 2025	
<b>5. Available Attendance Forms:</b>	
Theoretical and practical	
<b>6. Number of Credit Hours (Total) / Number of Units (Total)</b>	
Theoretical: 30 hours, practical: 60 hours. Total units: 4	
<b>7. Course administrator's name (mention all, if more than one name)</b>	
Name: Assit Prof Wael Al-Wattar                      email: wael_1969@uomosul.edu.iq Assist Lect Aws Mahmoud Ghzal                      awsalghazal@uomosul.edu.iq Lect Dr Dirar Ahmed Qassim                      dr.dirarqassim79@uomosul.edu.iq	
<b>8. Course Objectives</b>	
<b>Course Objectives</b>	<ul style="list-style-type: none"> <li>- Introduction to minor oral surgery and tooth extraction.</li> <li>- Study of instruments and tools for use in oral surgery.</li> <li>- Study of anaesthesia in oral surgery.</li> <li>- Knowledge about complications and issues related to anesthesia and tooth extraction.</li> </ul>
<b>9. Teaching and Learning Strategies</b>	
<b>Strategy</b>	<ul style="list-style-type: none"> <li>- Theory lectures and practical laboratories.</li> <li>- Educational videos and utilization of smart boards.</li> <li>- Use of educational models.</li> </ul>

## 10. Course Structure

### Theory part

Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	1	Case sheet record	Case sheet record	Theory lectures	Theory exam
2	1	Case sheet record	Case sheet record	Theory lectures	Theory exam
3	2	Mechanical principles of tooth extraction	Mechanical principles of tooth extraction	Theory lectures	Theory exam
4	2	Instruments used in tooth extraction	Instruments used in tooth extraction	Theory lectures	Theory exam
5	2	Surgical instruments	Surgical instruments	Theory lectures	Theory exam
6	1	Surgical instruments	Surgical instruments	Theory lectures	Theory exam
7	1	Sterilization and disinfection	Sterilization and disinfection	Theory lectures	Theory exam
8	2	Suturing techniques	Suturing techniques	Theory lectures	Theory exam
9	1	Suturing techniques	Suturing techniques	Theory lectures	Theory exam
10	1	Indications of tooth extraction	Indications of tooth extraction	Theory lectures	Theory exam
11	2	Contraindications of tooth extraction	Contraindications of tooth extraction	Theory lectures	Theory exam
12	1	Complications of tooth extraction	Complications of tooth extraction	Theory lectures	Theory exam
13	2	Pharmacology of LA	Pharmacology of LA	Theory lectures	Theory exam
14	1	Chemistry of LA	Chemistry of LA	Theory lectures	Theory exam

## 10. Course Structure

### Theory part

Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
15	1	Techniques of LA	Techniques of LA	Theory lectures	Theory exam
16	2	Maxillary technique	Maxillary technique	Theory lectures	Theory exam
17	2	Mandibular technique	Mandibular technique	Theory lectures	Theory exam
18	1	Complication of LA	Complication of LA	Theory lectures	Theory exam
19	2	Emergence cases in oral surgery	Emergence cases in oral surgery	Theory lectures	Theory exam
20	1	General anesthesia	General anesthesia	Theory lectures	Theory exam
21	1	Dentist posture and chair position	Dentist posture and chair position	Theory lectures	Theory exam

### Practical part

Week	Hr	Laboratory subject	Learning method	Evaluation method
1	4	Case sheet record	Practical work	Practical exam
2	2	Case sheet record	Practical work	Practical exam
3	4	Mechanical principles of tooth extraction	Practical work	Practical exam
4	4	Instruments used in tooth extraction	Practical work	Practical exam
5	2	Surgical instruments	Practical work	Practical exam
6	2	Surgical instruments	Practical work	Practical exam
7	4	Sterilization and disinfection	Practical work	Practical exam

<b>Practical part</b>				
<b>Week</b>	<b>Hr</b>	<b>Laboratory subject</b>	<b>Learning method</b>	<b>Evaluation method</b>
8	4	Suturing techniques	Practical work	Practical exam
9	2	Suturing techniques	Practical work	Practical exam
10	4	Indications of tooth extraction	Practical work	Practical exam
11	2	Contraindications of tooth extraction	Practical work	Practical exam
12	2	Complications of tooth extraction	Practical work	Practical exam
13	2	Pharmacology of LA	Practical work	Practical exam
14	4	Chemistry of LA	Practical work	Practical exam
15	2	Techniques of LA	Practical work	Practical exam
16	2	Maxillary technique	Practical work	Practical exam
17	2	Mandibular technique	Practical work	Practical exam
18	4	Complication of LA	Practical work	Practical exam
19	4	Emergence cases in oral surgery	Practical work	Practical exam
20	4	General anesthesia	Practical work	Practical exam
21	4	Dentist posture and chair position	Practical work	Practical exam

### **11.Course Evaluation**

Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc

### **12.Learning and Teaching Resources**

Required textbooks (curricular books, if any)	
Main references (sources)	
Recommended books and references (scientific journals, reports...)	

Electronic References, Websites	
Percentage of course update	5%

Name and signature of the course administrator	Name and signature of Head of the Department
<b>Assist Prof Wael Al-Wattar</b>	<b>Assist Prof Dr Manar Muthafar Al-Nema</b>

## Course Description Form

<b>1. Course Name:</b>	
Microbiology	
<b>2. Course Code:</b>	
3263 MICB	
<b>3. Semester / Year:</b>	
Third year / 2025-2026	
<b>4. Description Preparation Date:</b>	
01 Dec 2025	
<b>5. Available Attendance Forms:</b>	
Theoretical and practical	
<b>6. Number of Credit Hours (Total) / Number of Units (Total)</b>	
Theoretical: 60 hours, practical: 60 hours. Total units: 6	
<b>7. Course administrator's name (mention all, if more than one name)</b>	
Assit Prof Dr Suhad Hamdoon	suhadhamdoon@uomosul.edu.iq
Prof Dr Eman Aziz	Emanaziz@uomosul.edu.iq
Assist Prof Dr Heba Hamodat	hebahamodat@uomosul.edu.iq
Lect Dr Enas Aziz	enasbarhawe76@uomosul.edu.iq
Lect Dr Arjwan Aziz	arjwanarjwan@uomosul.edu.iq
Lect Dr Raafat Al-Adool	Rafaitadool2017@uomosul.edu.iq
Assist Lect Ammar Yaser	Ammarsdental89@uomosul.edu.iq
<b>8. Course Objectives</b>	
<b>Course Objectives</b>	<ul style="list-style-type: none"> <li>- Introduction to microbiology.</li> <li>- Knowledge about the bacteria associated with oral disease.</li> <li>- Study different techniques for culturing and bacterial identification.</li> <li>- Study human immunity.</li> <li>- Knowledge about viruses, types, identification and treatment.</li> </ul>
<b>9. Teaching and Learning Strategies</b>	
<b>Strategy</b>	<ul style="list-style-type: none"> <li>- Theory lectures and practical laboratories.</li> <li>- Educational videos and utilization of smart boards.</li> <li>- Use of educational models.</li> <li>- Focused student group discussion.</li> </ul>

## 10. Course Structure

### Theory part

Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2	Eukaryotic & Prokaryotic cells Cell structure of prokaryotes Comparison between G+ve & G-ve cell wall	Morphology, Ultra structures, physiology and metabolism of microorganisms	Theory lectures	Theory exam
2	2	Growth curve Metabolism of microorganisms Molecular biology & bacterial genetics	Microbial growth	Theory lectures	Theory exam
3	2	-Sterilization and Disinfection	Sterilization	Theory lectures	Theory exam
4	2	Antibiotic, sources Mode of action of antibiotic Anti-microbial sensitivity tests Bacterial resistance Prophylactic use	Antibiotic and chemotherapy	Theory lectures	Theory exam
5	2	Non-specific and specific immunity Antigen, Immunoglobulin Humeral and Cellular Immunity	Introduction to general immunology and oral immunology	Theory lectures	Theory exam
6	2	Complement system Human leukocyte antigen Role of complement and HLA in oral disease	Cells and organs of the immune system	Theory lectures	Theory exam
7	2	Autoimmunity and immune tolerance	Oral and mucosal immunity	Theory lectures	Theory exam
8	2	Antimicrobial and immunological defenses of saliva and gingival crevicular fluid components	Hypersensitivity reactions	Theory lectures	Theory exam
9	2	Symbiosis, Commensalism, Amphibiosis, Antagonistic Sources of infection in hospital and -nosocomial infections Post-operative wound infection, burns infections	Host-parasite relationship & Nosocomial infection	Theory lectures	Theory exam

## 10. Course Structure

### Theory part

Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
10	2	Pyogenic Streptococci Lancefield group Pathogenesis of streptococci Epidemiology, treatment and prevention Viridans streptococci Pneumococci	Streptococci	Theory lectures	Theory exam
11	2	Virulence factors and pathogenesis Epidemiology, treatment and prevention	Staphylococci	Theory lectures	Theory exam
12	2	Vellionella and Moraxella Neisseria gonorrhoea, N. meningitidis	G-ve diplococci	Theory lectures	Theory exam
13	2	Lactobacilli, Actinomyces and Corynebacterium diphtheriae & Diphtheroids	Lactobacilli	Theory lectures	Theory exam
14	2	B. subtilis, B. anthracis and B. cereus	Bacillus	Theory lectures	Theory exam
15	2	C. perfringens, C. tetani, C. botulinum, and difficile	Clostridium	Theory lectures	Theory exam
16	2	E. coli, Salmonella, Shigella,	Enterobacteriaceae	Theory lectures	Theory exam
17	2	Enterobacter, Klebsiella, proteus, Yersinia	Enterobacter	Theory lectures	Theory exam
18	2	Tuberculosis & Leprosy	Mycobacterium	Theory lectures	Theory exam
19	2	Brucella, Haemophilus, Vibrio	Brucella	Theory lectures	Theory exam
20	2	Porphyromonas, Prevotella, Bacteroids	Aggregatibacter	Theory lectures	Theory exam
21	2	Fusobacterium, Leptotrichia	Fusiforms and Spirochaetes	Theory lectures	Theory exam
22	2	Treponema and oral Treponema	Treponema	Theory lectures	Theory exam

## 10. Course Structure

### Theory part

Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
23	2	Mycoplasma, Chlamydia and Rickittsiae	Mycoplasma	Theory lectures	Theory exam
24	2	Indigenous flora Supplemental flora Transient flora Sources of oral bacteria Factors modulating growth of bacteria in the oral cavity	Ecology of oral flora	Theory lectures	Theory exam
25	2	Dental plaque & plaque metabolism plaque homeostasis Cariogenic microorganisms Mutans Streptococci Lactobacilli and Actinomyces-	Microbiology of dental caries	Theory lectures	Theory exam
26	2	Antibacterial factors in saliva Vaccination against dental caries	Microbial colonization	Theory lectures	Theory exam
27	2	Subgingival microbial complex specific, non-specific and Ecological plaque hypothesis Porphyromonas, prevotella, Aggregatibacter virulence factors of periodontal pathogens endodontic microbiota and Routes of root canal infection Ecology of endodontic microbiology	Microbiology of periodontal disease and Endodontics	Theory lectures	Theory exam
28	2	General structure of viruses Classification	Virology	Theory lectures	Theory exam
29	2	Isolation & diagnosis Oral virology	Viral replication	Theory lectures	Theory exam
30	2	Introduction, epidemiology, transmission E.histolotica, E.gingivalis, T.tenax, Fungal cells Classification, Candida	Oral mycology and Oral parasitology	Theory lectures	Theory exam

<b>Practical part</b>				
<b>Week</b>	<b>Hr</b>	<b>Laboratory subject</b>	<b>Learning method</b>	<b>Evaluation method</b>
1	2	Principles and safety in microbiology lab	Practical work	Practical exam
2	2	microscopes	Practical work	Practical exam
3	2	Simple stain	Practical work	Practical exam
4	2	Gram stain	Practical work	Practical exam
5	2	Capsule stain	Practical work	Practical exam
6	2	Spore stain	Practical work	Practical exam
7	2	Bacterial motility	Practical work	Practical exam
8	2	Streaking methods	Practical work	Practical exam
9	2	Bacterial growth	Practical work	Practical exam
10	2	Antimicrobial sensitivity	Practical work	Practical exam
11	2	Sterilization 1	Practical work	Practical exam
12	2	Sterilization 2	Practical work	Practical exam
13	2	Biochemical tests 1	Practical work	Practical exam
14	2	Biochemical tests	Practical work	Practical exam
15	2	Staphylococci	Practical work	Practical exam
16	2	Streptococci	Practical work	Practical exam
17	2	Lactobacilli	Practical work	Practical exam
18	2	Neisseria	Practical work	Practical exam
19	2	Mycobacterium	Practical work	Practical exam
20	2	Anaerobic bacteria	Practical work	Practical exam
21	2	Corynebacterium	Practical work	Practical exam
22	2	Enterobacteriaceae	Practical work	Practical exam
23	2	Actinomycetes	Practical work	Practical exam
24	2	Candida	Practical work	Practical exam
25	2	ELIZA	Practical work	Practical exam
26	2	Normal oral flora	Practical work	Practical exam
27	2	PCR 1	Practical work	Practical exam
28	2	PCR 2	Practical work	Practical exam
29	2	Phage typing 1	Practical work	Practical exam
30	2	Phage typing 2	Practical work	Practical exam

<b>11.Course Evaluation</b>	
Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc	
<b>12.Learning and Teaching Resources</b>	
Required textbooks (curricular books, if any)	Essential Microbiology for Dentistry
Main references (sources)	Practical Handbook of Microbiology Fourth Edition
Recommended books and references (scientific journals, reports...)	Kuby
Electronic References, Websites	Education links
Percentage of course update	5%

Name and signature of the course administrator	Name and signature of Head of the Department
<b>Assit Prof Dr Suhad Hamdoon</b>	<b>Prof Dr Ghada Abdulrahman Taqa</b>

## Course Description Form

<b>1. Course Name:</b>	
General Pathology	
<b>2. Course Code:</b>	
3264 GPATH	
<b>3. Semester / Year:</b>	
Third year	
<b>4. Description Preparation Date:</b>	
01 Dec 2025	
<b>5. Available Attendance Forms:</b>	
Theoretical and practical	
<b>6. Number of Credit Hours (Total) / Number of Units (Total)</b>	
Theoretical: 60 hours, practical: 60 hours. Total units: 6	
<b>7. Course administrator's name (mention all, if more than one name)</b>	
Name: Assistant Prof Dr Huda Akram      Email: <a href="mailto:hudaakram@uomosul.edu.iq">hudaakram@uomosul.edu.iq</a>	
<b>8. Course Objectives</b>	
<b>Course Objectives</b>	<ul style="list-style-type: none"> <li>- Introduction to pathology.</li> <li>- Knowledge about the pathology of oral diseases.</li> <li>- Study different pathological conditions.</li> <li>- Causes and prevention of pathological conditions.</li> </ul>
<b>9. Teaching and Learning Strategies</b>	
<b>Strategy</b>	<ul style="list-style-type: none"> <li>- Theory lectures and practical laboratories.</li> <li>- Educational videos and utilization of smart boards.</li> <li>- Use of educational models.</li> <li>- Focused student group discussion.</li> </ul>

## 10. Course Structure

### Theory part

Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2	Introduction to pathology	Introduction to pathology	Theory lectures	Theory exam
2	2	Irreversible cell injury Deposits and pigmentation External and internal pigmentation	Irreversible cell injury Deposits and pigmentation External and internal pigmentation	Theory lectures	Theory exam
3	2	Inflammation Acute inflammation Chronic pathology Chemical mediators	Inflammation Acute inflammation Chronic pathology Chemical mediators	Theory lectures	Theory exam
4	2	Healing and repair Healing of skin wound Healing of bone	Healing and repair Healing of skin wound Healing of bone	Theory lectures	Theory exam
5	2	Hemodynamic Disorders, Thromboembolic Disease, and Shock	Hemodynamic Disorders, Thromboembolic Disease, and Shock	Theory lectures	Theory exam
6	2	Genetic	Genetic	Theory lectures	Theory exam
7	2	Diseases of the Immune System Hypersensitivity Autoimmune Diseases Transplantation	Diseases of the Immune System Hypersensitivity Autoimmune Diseases Transplantation	Theory lectures	Theory exam
8	2	Neoplasia benign and malignant tumors molecular basis of tumors	Neoplasia benign and malignant tumors molecular basis of tumors	Theory lectures	Theory exam
9	2	Infections Bacterial and viral infection	Infections Bacterial and viral infection	Theory lectures	Theory exam
10	2	Environmental and Nutritional Diseases	Environmental and Nutritional Diseases	Theory lectures	Theory exam

## 10. Course Structure

### Theory part

Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
11	2	Blood Vessels	Blood Vessels	Theory lectures	Theory exam
12	4	The Heart	The Heart	Theory lectures	Theory exam
13	2	Red Blood Cell and Bleeding Disorders	Red Blood Cell and Bleeding Disorders	Theory lectures	Theory exam
14	2	Diseases of White Blood Cells	Diseases of White Blood Cells	Theory lectures	Theory exam
15	4	Diseases of G.I.T	Diseases of G.I.T	Theory lectures	Theory exam
16	2	Diseases of liver	Diseases of liver	Theory lectures	Theory exam
17	2	pancreas and gall bladder	pancreas and gall bladder	Theory lectures	Theory exam
18	4	Diseases of respiratory system	Diseases of respiratory system	Theory lectures	Theory exam
19	2	Bone diseases	Bone diseases	Theory lectures	Theory exam
20	4	Kidney	Kidney	Theory lectures	Theory exam
21	2	Urinary system	Urinary system	Theory lectures	Theory exam

<b>Practical part</b>				
<b>Week</b>	<b>Hr</b>	<b>Laboratory subject</b>	<b>Learning method</b>	<b>Evaluation method</b>
1	2	Introduction to general pathology and biopsy	Practical work	Practical exam
2	2	Power points slides	Practical work	Practical exam
3	2	Power points and histopathological slides demonstrating fatty changes in liver and cloudy swelling in kidney the gross appearance of reversible cell injury	Practical work	Practical exam
4	2	Power points and histopathological slides of coagulative necrosis in heart muscles and caseous necrosis in lung with explanation of gross appearance	Practical work	Practical exam
5	2	Power points and histopathological slides of anthracosis of lung and hemosiderosis in liver with explanation of gross appearance	Practical work	Practical exam
6	2	Power points and histopathological slides of amyloidosis in kidney, H With explanation of gross appearance& E. and congo-red stain	Practical work	Practical exam
7	2	Power points and histopathological slides of acute appendicitis (appendix), acute osteomyelitis and lobar pneumonia (lung ,)	Practical work	Practical exam
8	2	Power points and histopathological slides of chronic cholecystitis in gall bladder and with explanation of gross appearance osteomyelitis in bone	Practical work	Practical exam
9	2	Power points and histopathological slides of keloid in skin and granulation tissue	Practical work	Practical exam
10	2	Power points and histopathological slides of TB in lung and actinomycosis with explanation of gross appearance	Practical work	Practical exam
11	2	Power points and histopathological slides of Sarcoidosis With explanation of gross appearance	Practical work	Practical exam
12	2	Power points slides of CVC in lung and liver with explanation of gross appearance	Practical work	Practical exam
13	2	Power points slides of blood vessels thrombosis	Practical work	Practical exam
14	2	Power points and histopathological slides of lipoma, S.C papilloma of skin with explanation of gross appearance	Practical work	Practical exam
15	2	Power points and histopathological slides of osteoma of the bone	Practical work	Practical exam
16	2	Power points and histopathological slides of S.C. carcinoma and adeno carcinoma of the colon with explanation of gross appearance	Practical work	Practical exam

<b>Practical part</b>				
<b>Week</b>	<b>Hr</b>	<b>Laboratory subject</b>	<b>Learning method</b>	<b>Evaluation method</b>
17	2	Power points and histopathological slides of thyrotoxicosis of thyroid and hashimoto's thyroiditis in thyroid with explanation of gross appearance	Practical work	Practical exam
18	2	Data show slides	Practical work	Practical exam
19	2	Data show slides	Practical work	Practical exam
20	2	Power points and histopathological slides of myocardial infarction of heart and atherosclerosis in blood vessels with explanation of gross appearance	Practical work	Practical exam
21	2	Power points and histopathological slides of chronic gastritis in stomach and peptic ulcer with explanation of gross appearance	Practical work	Practical exam
22	2	Power points and histopathological slides of liver cirrhosis and hepatocellular carcinoma with explanation of gross appearance	Practical work	Practical exam
23	2	Power points and histopathological slides of emphysema in lung and chronic bronchitis in bronchus with explanation of gross appearance	Practical work	Practical exam
24	2	Data show	Practical work	Practical exam
25	2	Data show	Practical work	Practical exam
26	2	Data show	Practical work	Practical exam
27	2	Data show	Practical work	Practical exam
28	2	Data show	Practical work	Practical exam
29	2	Power points slides	Practical work	Practical exam
30	2	Power points slides	Practical work	Practical exam

<b>11.Course Evaluation</b>	
Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc	
<b>12.Learning and Teaching Resources</b>	
Required textbooks (curricular books, if any)	Robbins basic pathology
Main references (sources)	
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	
Percentage of course update	5%

Name and signature of the course administrator	Name and signature of Head of the Department
<b>Assit Prof Dr Huda Akram</b>	<b>Assist Prof Dr Abdulsattar Salim</b>

## Course Description Form

<b>1. Course Name:</b>	
Pharmacology	
<b>2. Course Code:</b>	
3265 PHAR	
<b>3. Semester / Year:</b>	
Third year / 2025-2026	
<b>4. Description Preparation Date:</b>	
01 Dec 2025	
<b>5. Available Attendance Forms:</b>	
Theoretical and practical	
<b>6. Number of Credit Hours (Total) / Number of Units (Total)</b>	
Theoretical: 60 hours, practical: 60 hours. Total units: 6	
<b>7. Course administrator's name (mention all, if more than one name)</b>	
Name: Prof Dr Maha Tallal Email: mahatalal72@uomosul.edu.iq	
<b>8. Course Objectives</b>	
<b>Course Objectives</b>	<ul style="list-style-type: none"> <li>- Introduction to pharmacology.</li> <li>- Knowledge about the pharmaceutical for oral uses.</li> <li>- Study different pharmacokinetics and pharmacological actions.</li> <li>- Study chemical structure and mode of actions of medicines.</li> </ul>
<b>9. Teaching and Learning Strategies</b>	
<b>Strategy</b>	<ul style="list-style-type: none"> <li>- Theory lectures and practical laboratories.</li> <li>- Educational videos and utilization of smart boards.</li> <li>- Use of educational models.</li> <li>- Focused student group discussion.</li> </ul>

## 10. Course Structure

### Theory part

Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2	introduction	introduction	Theory lectures	Theory exam
2	2	introduction	introduction	Theory lectures	Theory exam
3	2	ANS introduction	ANS introduction	Theory lectures	Theory exam
4	2	Cholinergic NS	Cholinergic NS	Theory lectures	Theory exam
5	2	Adrenergic NS	Adrenergic NS	Theory lectures	Theory exam
6	2	Agonist and antagonist drugs toANS	Agonist and antagonist drugs toANS	Theory lectures	Theory exam
7	2	Analgesic introduction	Analgesic introduction	Theory lectures	Theory exam
8	2	Opoide analgesic	Opoide analgesic	Theory lectures	Theory exam
9	2	Non opioide analgesic and side effects	Non opioide analgesic and side effects	Theory lectures	Theory exam
10	2	Local anesthesia types and classification	Local anesthesia types and classification	Theory lectures	Theory exam
11	2	Local anesthesia toxicity	Local anesthesia toxicity	Theory lectures	Theory exam
12	2	General anesthesia types	General anesthesia types	Theory lectures	Theory exam
13	2	Anticoagulant drug	Anticoagulant drug	Theory lectures	Theory exam
14	2	antihypertensive	antihypertensive	Theory lectures	Theory exam
15	2	Hormones introduction	Hormones introduction	Theory lectures	Theory exam
16	2	Thyroid hormones	Thyroid hormones	Theory lectures	Theory exam

## 10. Course Structure

### Theory part

Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
17	2	Diabetic disease and drug	Diabetic disease and drug	Theory lectures	Theory exam
18	2	Corticosteroid hormones	Corticosteroid hormones	Theory lectures	Theory exam
19	2	Hormones of calcium hemostasis	Hormones of calcium hemostasis	Theory lectures	Theory exam
20	2	CNS drug introduction	CNS drug introduction	Theory lectures	Theory exam
21	2	Antiepileptic drugs	Antiepileptic drugs	Theory lectures	Theory exam
22	2	Antidepressants drugs	Antidepressants drugs	Theory lectures	Theory exam
23	2	Antibiotics introduction	Antibiotics introduction	Theory lectures	Theory exam
24	2	Penicillin's and cephalosporin	Penicillin's and cephalosporin	Theory lectures	Theory exam
25	2	Erythromycin and others	Erythromycin and others	Theory lectures	Theory exam
26	2	methexazolesheprin	methexazolesheprin	Theory lectures	Theory exam
27	2	Anticaries dugs	Anticaries dugs	Theory lectures	Theory exam
28	2	Antiplateque drugs	Antiplateque drugs	Theory lectures	Theory exam
29	2	Respiratory drugs	Respiratory drugs	Theory lectures	Theory exam
30	2	GIT drugs	GIT drugs	Theory lectures	Theory exam

### Practical part

Week	Hr	Laboratory subject	Learning method	Evaluation method
1	2	metrology	Practical work	Practical exam

<b>Practical part</b>				
<b>Week</b>	<b>Hr</b>	<b>Laboratory subject</b>	<b>Learning method</b>	<b>Evaluation method</b>
2	2	concentration	Practical work	Practical exam
3	2	Drug kinetic part1	Practical work	Practical exam
4	2	Drug kinetic part2	Practical work	Practical exam
5	2	External dosage form	Practical work	Practical exam
6	2	Internal dosage form	Practical work	Practical exam
7	2	Local anesthetic toxicity	Practical work	Practical exam
8	2	Therapeutic index	Practical work	Practical exam
9	2	demonstration	Practical work	Practical exam
10	2	Biological variation of drug	Practical work	Practical exam
11	2	Route of drug administration	Practical work	Practical exam
12	2	Drug excretion in saliva	Practical work	Practical exam
13	2	Triple response	Practical work	Practical exam
14	2	General anesthesia	Practical work	Practical exam
15	2	Prescription writing part1	Practical work	Practical exam
16	2	Prescription writing part2	Practical work	Practical exam
17	2	Compound prescription	Practical work	Practical exam
18	2	Emergency drug	Practical work	Practical exam
19	2	Drug toxicity	Practical work	Practical exam
20	2	Iodide excretion	Practical work	Practical exam
21	2	Analgesic drug	Practical work	Practical exam
22	2	Tramal anesthesia	Practical work	Practical exam

<b>Practical part</b>				
<b>Week</b>	<b>Hr</b>	<b>Laboratory subject</b>	<b>Learning method</b>	<b>Evaluation method</b>
23	2	Determination of drug ph	Practical work	Practical exam
24	2	Drug excretion by lung	Practical work	Practical exam
25	2	Determination of salivary ph	Practical work	Practical exam
26	2	Drug interaction	Practical work	Practical exam
27	2	pharmacokinetic	Practical work	Practical exam
28	2	pharmacodynamics	Practical work	Practical exam
29	2	Demonstration 1	Practical work	Practical exam
30	2	Demonstration 1	Practical work	Practical exam

### 11.Course Evaluation

Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc

### 12.Learning and Teaching Resources

Required textbooks (curricular books, if any)	
Main references (sources)	Lippincott's Illustrated Review
Recommended books and references (scientific journals, reports...)	Colour Atlas of pharmacology
Electronic References, Websites	
Percentage of course update	5%

Name and signature of the course administrator	Name and signature of Head of the Department
<b>Prof Dr Maha Talal</b>	<b>Prof Dr Ghada Abdulrahman Taqa</b>

## Course Description Form

<b>1. Course Name:</b>	
Preclinical Operative Dentistry	
<b>2. Course Code:</b>	
3266 PCOD	
<b>3. Semester / Year:</b>	
Third year / 2025-2026	
<b>4. Description Preparation Date:</b>	
10 Dec 2025	
<b>5. Available Attendance Forms:</b>	
Theoretical and practical	
<b>6. Number of Credit Hours (Total) / Number of Units (Total)</b>	
Theoretical: 30 hours, practical: 60 hours. Total units: 4	
<b>7. Course administrator's name (mention all, if more than one name)</b>	
Name: Assistant Lecturer Mohammed Abduladhim Email: rayanalmallah@uomosul.edu.iq	
<b>8. Course Objectives</b>	
<b>Course Objectives</b>	<ul style="list-style-type: none"> <li>- Introduction to operative dentistry.</li> <li>- Study the principles of cavity preparation.</li> <li>- Study different types of tooth filling techniques and materials.</li> <li>- Introduction to crown and bridge.</li> </ul>
<b>9. Teaching and Learning Strategies</b>	
<b>Strategy</b>	<ul style="list-style-type: none"> <li>- Theory lectures and practical laboratories.</li> <li>- Educational videos and utilization of smart boards.</li> <li>- Use of educational models.</li> <li>- Focused student group discussion.</li> </ul>

## 10. Course Structure

### Theory part

Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	1	Introduction to Operative Dentistry	Introduction to Operative Dentistry	Theory lectures	Theory exam
2	1	Dental caries, types, and classifications	Dental caries, types, and classifications	Theory lectures	Theory exam
3	1	Instruments and general instrumentation for cavity preparation	Instruments and general instrumentation for cavity preparation	Theory lectures	Theory exam
4	1	Principle of cavity preparation + classification of cavities	Principle of cavity preparation + classification of cavities	Theory lectures	Theory exam
5	1	Factors that affect cavity preparation	Factors that affect cavity preparation	Theory lectures	Theory exam
6	1	Cavity preparations for CI I	Cavity preparations for CI I	Theory lectures	Theory exam
7	1	Cavity preparations for CI II	Cavity preparations for CI II	Theory lectures	Theory exam
8	1	Cavity preparations for CI III & CI IV	Cavity preparations for CI III & CI IV	Theory lectures	Theory exam
9	1	Cavity preparations for CI V	Cavity preparations for CI V	Theory lectures	Theory exam
10	1	Tooth colored restorations (Classification and types)	Tooth colored restorations (Classification and types)	Theory lectures	Theory exam

## 10. Course Structure

### Theory part

Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
11	1	Dental composite resins	Dental composite resins	Theory lectures	Theory exam
12	1	Adhesives systems	Adhesives systems	Theory lectures	Theory exam
13	1	Rubber Dam types and application procedures	Rubber Dam types and application procedures	Theory lectures	Theory exam
14	1	Direct composite resin restoration of CL I, III, IV, and V cavities	Direct composite resin restoration of CL I, III, IV, and V cavities	Theory lectures	Theory exam
15	1	Direct composite resin restoration of CL II cavity	Direct composite resin restoration of CL II cavity	Theory lectures	Theory exam
16	1	Complex composite restoration (principles of preparation)	Complex composite restoration (principles of preparation)	Theory lectures	Theory exam
17	1	Complex composite restoration (restorative procedures)	Complex composite restoration (restorative procedures)	Theory lectures	Theory exam
18	1	Direct composite veneers (indications and principles)	Direct composite veneers (indications and principles)	Theory lectures	Theory exam
19	1	Direct composite veneers (restorative procedures)	Direct composite veneers	Theory lectures	Theory exam

## 10. Course Structure

### Theory part

Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
			(restorative procedures)		
20	1	Color Matching and Composite Shade Selection	Color Matching and Composite Shade Selection	Theory lectures	Theory exam
21	1	Light Curing of Restorative Materials	Light Curing of Restorative Materials	Theory lectures	Theory exam
22	1	Glass Ionomer restorations	Glass Ionomer restorations	Theory lectures	Theory exam
23	1	Failures in composite restoration (repair and replacement)	Failures in composite restoration (repair and replacement)	Theory lectures	Theory exam
24	1	Remineralization and resin infiltration techniques	Remineralization and resin infiltration techniques	Theory lectures	Theory exam
25	1	Amalgam Restorations: Clinical Relevance, Longevity, and Failure Patterns"	Amalgam Restorations: Clinical Relevance, Longevity, and Failure Patterns"	Theory lectures	Theory exam
26	1	Removal of amalgam restorations and mercury hazards	Removal of amalgam restorations and mercury hazards	Theory lectures	Theory exam
27	1	Pulp protection	Pulp protection	Theory lectures	Theory exam
28	1	Liners and base materials	Liners and base materials	Theory lectures	Theory exam
29	1	Sterilization of operative instruments Part I	Sterilization of operative instruments Part I	Theory lectures	Theory exam

## 10. Course Structure

### Theory part

Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
30	1	Sterilization of operative instruments, part II	Sterilization of operative instruments, part II	Theory lectures	Theory exam

### Practical part

Week	Hr	Laboratory subject	Learning method	Evaluation method
1	2	Introduction to the Phantom Lab and working position	Practical work	Practical exam
2	2	Introduction to the Phantom Lab and working position	Practical work	Practical exam
3	2	DEMO of hand and drilling instruments	Practical work	Practical exam
4	2	DEMO of CL I cavity preparations of buccal pit on lower 6 and palatal pit on upper 2	Practical work	Practical exam
5	2	Exercise and Evaluation of CL I cavity preparations of the buccal pit on the lower 6 and the palatal pit on the upper 2	Practical work	Practical exam
6	2	DEMO of CL I cavity preparations for the lower 5 and 2 CL 1 on the lower 4	Practical work	Practical exam
7	2	Exercise of CL I cavity preparations for the lower 5 and 2 CL 1 on the lower 4	Practical work	Practical exam
8	2	Evaluation	Practical work	Practical exam
9	2	DEMO of 2 CL I cavity preparations + Palatal extension on the upper 6	Practical work	Practical exam
10	2	Exercise and evaluation of 2 CL I cavity preparations + Palatal extension on the upper 6	Practical work	Practical exam
11	2	DEMO of CL II M and D only cavity preparations on the lower 6	Practical work	Practical exam
12	2	Exercise and evaluation of CL II M and D only cavity preparations on the lower 6	Practical work	Practical exam
13	2	DEMO of CL II MO cavity preparations + palatal extension on the upper 6	Practical work	Practical exam
14	2	Exercise and evaluation of CL II MO cavity preparations + palatal extension on the upper 6.	Practical work	Practical exam
15	2	DEMO and exercise of CL II DO cavity preparations on the lower 5	Practical work	Practical exam

<b>Practical part</b>				
<b>Week</b>	<b>Hr</b>	<b>Laboratory subject</b>	<b>Learning method</b>	<b>Evaluation method</b>
16	2	DEMO and exercise of CL I composite filling of the lower 4	Practical work	Practical exam
17	2	DEMO and exercise of Composite restoration of lower 5 (DO cavity)	Practical work	Practical exam
18	2	DEMO and exercise of Composite restoration of the lower 6	Practical work	Practical exam
19	2	DEMO and exercise of Composite restoration of the upper 6	Practical work	Practical exam
20	2	DEMO + Exercise CL III cavity preparation + composite restoration on upper 1	Practical work	Practical exam
21	2	DEMO + Exercise CL IV cavity preparation + composite restoration on upper 1	Practical work	Practical exam
22	2	DEMO CL II MO cavity + composite restoration on upper 4	Practical work	Practical exam
23	2	Exercise CL II MO cavity + composite restoration on upper 4	Practical work	Practical exam
24	2	DEMO and exercise CL V cavity + composite restoration on upper 3	Practical work	Practical exam
25	2	CL V cavity preparation of lower 3 + Glass ionomer restoration	Practical work	Practical exam
26	2	DEMO of cavity liners and base material	Practical work	Practical exam
27	2	DEMO and Exercise on Rubber Dam Applications	Practical work	Practical exam
28	2	DEMO of caries detection and excavation on natural teeth, exercise on natural molars with occlusal caries	Practical work	Practical exam
29	2	Final practical examination CL II MO cavity preparation + composite restoration on lower 6	Practical work	Practical exam
30	2	Final practical examination CL II MO cavity preparation + composite restoration on lower 6	Practical work	Practical exam

<b>11.Course Evaluation</b>	
Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc	
<b>12.Learning and Teaching Resources</b>	
Required textbooks (curricular books, if any)	<ul style="list-style-type: none"> <li>Sturdevant's Art and Science of Operative Dentistry, 7th edition.</li> <li>Summitt's Fundamentals of Operative Dentistry: A Contemporary Approach, 4th Edition.</li> </ul>
Main references (sources)	
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	
Percentage of course update	5%

Name and signature of the course administrator	Name and signature of Head of the Department
<b>Assistant Lecturer Mohammed Abduladhim</b>	<b>Assist Prof Dr Alaa Idrees Dawood</b>

## Course Description Form

<b>1. Course Name:</b>	
Preclinical Fixed Prosthodontics	
<b>2. Course Code:</b>	
3267 PFP	
<b>3. Semester / Year:</b>	
Third year / 2025-2026	
<b>4. Description Preparation Date:</b>	
01 Dec 2025	
<b>5. Available Attendance Forms:</b>	
Theoretical and practical	
<b>6. Number of Credit Hours (Total) / Number of Units (Total)</b>	
Theoretical: 30 hours, practical: 60 hours. Total units: 4	
<b>7. Course administrator's name (mention all, if more than one name)</b>	
Name: Assit Lecturer Mohammed Abduladhim Saed Email: maasb2000@uomosul.edu.iq	
<b>8. Course Objectives</b>	
<b>Course Objectives</b>	<ul style="list-style-type: none"> <li>- Introduction to fixed prosthodontics.</li> <li>- Study the principle of fixed prosthesis attachment and support.</li> <li>- Study teeth preparation required for fixed prosthodontics.</li> <li>- Practical hand-on on teeth preparation.</li> </ul>
<b>9. Teaching and Learning Strategies</b>	
<b>Strategy</b>	<ul style="list-style-type: none"> <li>- Theory lectures and practical laboratories.</li> <li>- Educational videos and utilization of smart boards.</li> <li>- Use of educational models.</li> <li>- Focused student group discussion.</li> </ul>

<b>10. Course Structure</b>					
<b>Theory part</b>					
Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	1	Definitions	Definitions	Theory lectures	Theory exam

## 10. Course Structure

### Theory part

Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
2	1	Definitions	Definitions	Theory lectures	Theory exam
3	1	Definitions	Definitions	Theory lectures	Theory exam
4	1	Biomechanical principles of tooth preparation:	Biomechanical principles of tooth preparation:	Theory lectures	Theory exam
5	1	Biomechanical principles of tooth preparation:	Biomechanical principles of tooth preparation:	Theory lectures	Theory exam
6	1	Biomechanical principles of tooth preparation:	Biomechanical principles of tooth preparation:	Theory lectures	Theory exam
7	1	Full metal crown	Full metal crown	Theory lectures	Theory exam
8	1	Full metal crown	Full metal crown	Theory lectures	Theory exam
9	1	Porcelain fused to metal crown	Porcelain fused to metal crown	Theory lectures	Theory exam
10	1	Porcelain fused to metal crown	Porcelain fused to metal crown	Theory lectures	Theory exam
11	1	Complete ceramic crown (Porcelain Jacket Crown)	Complete ceramic crown (Porcelain Jacket Crown)	Theory lectures	Theory exam
12	1	Complete ceramic crown (Porcelain Jacket Crown)	Complete ceramic crown (Porcelain Jacket Crown)	Theory lectures	Theory exam
13	1	Partial veneer crown (three-quarter crown)	Partial veneer crown (three-quarter crown)	Theory lectures	Theory exam
14	1	Partial veneer crown (three-quarter crown)	Partial veneer crown (three-quarter crown)	Theory lectures	Theory exam
15	1	Post crown	Post crown	Theory lectures	Theory exam

## 10. Course Structure

### Theory part

Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
16	1	Post crown	Post crown	Theory lectures	Theory exam
17	1	Impression for crown and bridge work	Impression for crown and bridge work	Theory lectures	Theory exam
18	1	Impression for crown and bridge work	Impression for crown and bridge work	Theory lectures	Theory exam
19	1	Provisional restoration	Provisional restoration	Theory lectures	Theory exam
20	1	Provisional restoration	Provisional restoration	Theory lectures	Theory exam
21	1	Working cast and dies	Working cast and dies	Theory lectures	Theory exam
22	1	Working cast and dies	Working cast and dies	Theory lectures	Theory exam
23	1	Waxing, investing, casting	Waxing, investing, casting	Theory lectures	Theory exam
24	1	Waxing, investing, casting	Waxing, investing, casting	Theory lectures	Theory exam
25	1	Finishing of the casting and clinical try-in	Finishing of the casting and clinical try-in	Theory lectures	Theory exam
26	1	Finishing of the casting and clinical try-in	Finishing of the casting and clinical try-in	Theory lectures	Theory exam
27	1	Cementation	Cementation	Theory lectures	Theory exam
28	1	Cementation	Cementation	Theory lectures	Theory exam
29	1	CAD /CAM Technology for crown construction	CAD /CAM Technology for crown construction	Theory lectures	Theory exam
30	1	CAD /CAM Technology for crown construction	CAD /CAM Technology for crown construction	Theory lectures	Theory exam

<b>Practical part</b>				
<b>Week</b>	<b>Hr</b>	<b>Laboratory subject</b>	<b>Learning method</b>	<b>Evaluation method</b>
1	2	Introduction on the lab work, phantom heads and teeth manikins.	Practical work	Practical exam
2	2	Demonstration about the rotary instrument and how to cut geometrical cavities (Part 1).	Practical work	Practical exam
3	2	Demonstration about the rotary instrument and how to cut geometrical cavities (Part 2).	Practical work	Practical exam
4	2	Demonstration on full metal crown preparation on lower 1st molar.	Practical work	Practical exam
5	2	Demonstration on full metal crown preparation on lower 2nd molar.	Practical work	Practical exam
6	2	Practicing lab under supervision.	Practical work	Practical exam
7	2	Practicing lab under supervision.	Practical work	Practical exam
8	2	Practical assessment of full metal crown preparation on lower 1st molar.	Practical work	Practical exam
9	2	Demonstration on porcelain fused to metal crown preparation on upper central incisor.	Practical work	Practical exam
10	2	Demonstration on porcelain fused to metal crown preparation on upper lateral incisor.	Practical work	Practical exam
11	2	Practicing lab under supervision.	Practical work	Practical exam
12	2	Practicing lab under supervision.	Practical work	Practical exam
13	2	Practical assessment of porcelain fused to metal crown preparation on upper central incisor.	Practical work	Practical exam
14	2	Demonstration on post crown preparation on extracted root canal filled upper canine.	Practical work	Practical exam
15	2	Demonstration on post crown preparation on extracted root canal filled lower 1st premolar.	Practical work	Practical exam
16	2	Practicing lab under supervision.	Practical work	Practical exam
17	2	Practicing lab under supervision.	Practical work	Practical exam
18	2	Practical assessment of post crown preparation on extracted root canal filled upper canine.	Practical work	Practical exam
19	2	Demonstration on special tray construction.	Practical work	Practical exam
20	2	Demonstration on impression materials used in Fixed Prosthodontics	Practical work	Practical exam
21	2	Demonstration on impression techniques in Fixed Prosthodontics.	Practical work	Practical exam
22	2	Demonstration on die construction using dowel pin.	Practical work	Practical exam
23	2	Demonstration on provisional restoration (Part 1): Materials.	Practical work	Practical exam

<b>Practical part</b>				
<b>Week</b>	<b>Hr</b>	<b>Laboratory subject</b>	<b>Learning method</b>	<b>Evaluation method</b>
24	2	Demonstration on provisional restoration (Part 2): Techniques.	Practical work	Practical exam
25	2	Demonstration on direct waxing for post crown construction on upper canine.	Practical work	Practical exam
26	2	Demonstration on indirect waxing technique.	Practical work	Practical exam
27	2	Demonstration on investing and casting.	Practical work	Practical exam
28	2	Demonstration on cleaning and finishing of the cast restoration.	Practical work	Practical exam
29	2	Final assessment of the practical work.	Practical work	Practical exam
30	2	Final practical exam.	Practical work	Practical exam

### **11.Course Evaluation**

Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc

### **12.Learning and Teaching Resources**

Required textbooks (curricular books, if any)	
Main references (sources)	
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	
Percentage of course update	5%

Name and signature of the course administrator	Name and signature of Head of the Department
<b>Assist Lect Mohammed Abduladhim</b>	<b>Assist Prof Dr Alaa Idrees Dawood</b>

## Course Description Form

<b>1. Course Name:</b>					
Community Dentistry					
<b>2. Course Code:</b>					
3268 COMD					
<b>3. Semester / Year:</b>					
Third year					
<b>4. Description Preparation Date:</b>					
01 Dec 2025					
<b>5. Available Attendance Forms:</b>					
Theoretical and practical					
<b>6. Number of Credit Hours (Total) / Number of Units (Total)</b>					
Theoretical: 30 hours, practical: 60 hours. Total units: 4					
<b>7. Course administrator's name (mention all, if more than one name)</b>					
Name: Assist Prof Sahir Sami Majeed    Email: <a href="mailto:saher.gasgoos@uomosul.edu.iq">saher.gasgoos@uomosul.edu.iq</a>					
<b>8. Course Objectives</b>					
<b>Course Objectives</b>	<ul style="list-style-type: none"> <li>- Introduction to community dentistry and public health.</li> <li>- Study the epidemiology and experimental studies.</li> <li>- Study the dental indices of dental caries and periodontal disease.</li> <li>- Introduction to biostatistics.</li> </ul>				
<b>9. Teaching and Learning Strategies</b>					
<b>Strategy</b>	<ul style="list-style-type: none"> <li>- Theory lectures and practical laboratories.</li> <li>- Educational videos and utilization of smart boards.</li> <li>- Use of educational models.</li> <li>- Focused student group discussion.</li> </ul>				
<b>10. Course Structure</b>					
<b>Theory part</b>					
<b>Week</b>	<b>Hr</b>	<b>Required Learning Outcomes</b>	<b>Unit or subject name</b>	<b>Learning method</b>	<b>Evaluation method</b>
1	1	Dental public health Public health and Dental Public health definition.	Introduction	Theory lectures	Theory exam

## 10. Course Structure

### Theory part

Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
		Community Dentistry. Dental public health practitioners. Public health impact of dental disease. Tools of dental public health: Epidemiology, Biostatistics, Social sciences, Principles of administration, Preventive dentistry.			
2	1	Steps in planning dental care for the patient Steps in planning dental care for the community Similarities between personal and community health care: Differences between private dental practice and public health dentistry	Dental public care	Theory lectures	Theory exam
3	1	Objectives of epidemiology. Components of epidemiological study. Essential steps in an epidemiological study. Hypothesis. Population at risk. Morbidity. Measurements of disease frequency. Epidemiological approach. Measurement tools in epidemiology.	Epidemiology	Theory lectures	Theory exam
4	1	Types of Epidemiological studies: Observational studies Types of observational studies, Descriptive studies, Analytical studies, Case control studies Cohort studies, Ecological studies.	Epidemiological studies	Theory lectures	Theory exam
5	1	Intervention Types of experimental studies	Experimental studies	Theory lectures	Theory exam

## 10. Course Structure

### Theory part

Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
6	1	Definition of dental caries Epidemiology Etiological factors of dental caries Types of dental caries according to their anatomical (location) site. Factors affecting epidemiology of dental caries	Epidemiology of dental caries	Theory lectures	Theory exam
7	1	Periodontal Diseases definition Structure of the periodontal tissues Epidemiology Etiology of periodontal disease	Epidemiology of Periodontal Disease	Theory lectures	Theory exam
8	1	Types of cancers Etiology of oral cancer Constituents of tobacco smoke Potentially malignant lesions Levels of prevention for oral cancer Rehabilitation after Oral Cancer	Epidemiology of Oral Cancer	Theory lectures	Theory exam
9	1	Index Uses of dental index Classification of indices	Dental indices	Theory lectures	Theory exam
10	1	Indices used for assessment of dental caries DMF index, Principles in recording DMF index Calculation of DMFT/DMFS Dental caries severity index DMF index	Dental caries indices	Theory lectures	Theory exam
11	1	Oral Hygiene Indices: Gingival inflammation indices Periodontal indices	Periodontal disease indices	Theory lectures	Theory exam
12	1	Indices for assessment of dental fluorosis	Dental fluorosis	Theory lectures	Theory exam
13	1	Data, Types of data Methods of Data Collection Sampling Technique Types of sample design	Biostatistics	Theory lectures	Theory exam
14	1	Methods of data presentation The tabulation of data.	Data presentation	Theory lectures	Theory exam

## 10. Course Structure

### Theory part

Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
		The graphical representation of data			
15	1	Measures of central tendency Measures of dispersion.	Central tendency and dispersion	Theory lectures	Theory exam
16	1	Fluoridation as a public health measure History: Sources of Fluoride, Water fluoridation, Types of fluoride	Fluoridation	Theory lectures	Theory exam
17	1	Fluoridation Mechanism and Effects Mechanism of action, Anti-caries effects of fluoride. Metabolism of fluoride, Dental Fluorosis, Side effects of fluoride	Fluoridation	Theory lectures	Theory exam
18	1	Major occupational hazards in dentistry Biological health hazards. Physical hazards, Chemical hazards, Musculoskeletal disorders and diseases of the peripheral nervous system Hearing loss Radiation exposure Stress, Legal hazards Other risks	Occupational hazards	Theory lectures	Theory exam
19	1	Environment and health Environment Physical environment: Biological environment: Psychological environment Environmental indicators	Environment	Theory lectures	Theory exam
20	1	Effects of air pollution on health Prevention and control of air pollution Effects of radiation Noise pollution	Air pollution	Theory lectures	Theory exam
21	1	Purpose of School Health Program	School Dental Health Program	Theory lectures	Theory exam

## 10. Course Structure

### Theory part

Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
		Guidelines for an ideal school dental program School dental survey phases in school oral health program			
22	1	Categories of need Demands Factors affecting dental demands	Treatment need and demand need	Theory lectures	Theory exam
23	1	Manpower definition Dental health manpower planning Steps in dental health manpower planning	Dental manpower	Theory lectures	Theory exam
24	1	Definition of ethics Dentistry as a profession Ethical principles	Ethics in dentistry	Theory lectures	Theory exam
25	1	The main oral effects of aging Pregnant women Special Care Dentistry Patients with special health care	Oral health care for special populations	Theory lectures	Theory exam
26	1	Application of forensic dentistry. Bite marks, Person identification. Dental identification.	Forensic dentistry	Theory lectures	Theory exam
27	1	Introduction, Dental auxiliary classification. Non operator auxiliary. Operator auxiliary, Four handed relationship.	Dental auxiliary personnel	Theory lectures	Theory exam
28	1	Introduction, Elements (components) of Primary health care. Principles of Primary health care. Primary dental health care. Community dental health services.	Primary health care and Primary dental health care	Theory lectures	Theory exam
29	1	Introduction, Concept of disease transmission. The acquisition means of pathogens.	Infection control	Theory lectures	Theory exam

## 10. Course Structure

### Theory part

Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
		Transmission of infectious diseases. Control of infectious diseases. Personal barrier techniques. Instrument processing (sterilization).			
30	1	Introduction, Aims of health education. Objective of health education., Objective of dental health education. Principle of health education. Planning a health education.	Dental health education	Theory lectures	Theory exam

### Practical part

Week	Hr	Laboratory subject	Learning method	Evaluation method
1	2	Introduction	Practical work	Practical exam
2	2	Dental public care	Practical work	Practical exam
3	2	Epidemiology	Practical work	Practical exam
4	2	Epidemiological studies	Practical work	Practical exam
5	2	Experimental studies	Practical work	Practical exam
6	2	Epidemiology of dental caries	Practical work	Practical exam
7	2	Epidemiology of Periodontal Disease	Practical work	Practical exam
8	2	Epidemiology of Oral Cancer	Practical work	Practical exam
9	2	Dental indices	Practical work	Practical exam
10	2	Dental caries indices	Practical work	Practical exam
11	2	Periodontal disease indices	Practical work	Practical exam

<b>Practical part</b>				
<b>Week</b>	<b>Hr</b>	<b>Laboratory subject</b>	<b>Learning method</b>	<b>Evaluation method</b>
12	2	Dental fluorosis	Practical work	Practical exam
13	2	Biostatistics	Practical work	Practical exam
14	2	Data presentation	Practical work	Practical exam
15	2	Central tendency and dispersion	Practical work	Practical exam
16	2	Fluoridation	Practical work	Practical exam
17	2	Fluoridation	Practical work	Practical exam
18	2	Occupational hazards	Practical work	Practical exam
19	2	Environment	Practical work	Practical exam
20	2	Air pollution	Practical work	Practical exam
21	2	School Dental Health Program	Practical work	Practical exam
22	2	Treatment need and demand need	Practical work	Practical exam
23	2	Dental manpower	Practical work	Practical exam
24	2	Ethics in dentistry	Practical work	Practical exam
25	2	Oral health care for special populations	Practical work	Practical exam
26	2	Forensic dentistry	Practical work	Practical exam
27	2	Dental auxiliary personnel	Practical work	Practical exam
28	2	Primary health care and Primary dental health care	Practical work	Practical exam
29	2	Infection control	Practical work	Practical exam
30	2	Dental health education	Practical work	Practical exam

<b>11.Course Evaluation</b>	
Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc	
<b>12.Learning and Teaching Resources</b>	
Required textbooks (curricular books, if any)	
Main references (sources)	
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	
Percentage of course update	5%

Name and signature of the course administrator	Name and signature of Head of the Department
<b>Assistant Prof Sahir Sami Majeed</b>	<b>Assist Prof Dr Sarmad Al-Qassar</b>

## Course Description Form

<b>1. Course Name:</b>	
Dental Ethics	
<b>2. Course Code:</b>	
3269 DETH	
<b>3. Semester / Year:</b>	
Third year / 2025-2026	
<b>4. Description Preparation Date:</b>	
01 Dec 2025	
<b>5. Available Attendance Forms:</b>	
Theoretical	
<b>6. Number of Credit Hours (Total) / Number of Units (Total)</b>	
Theoretical: 30 hours. Total units: 2	
<b>7. Course administrator's name (mention all, if more than one name)</b>	
Name: Assistant Prof Dr Manar Muthafar Al-Nema Email: manaralnema@uomosul.edu.iq	
<b>8. Course Objectives</b>	
<b>Course Objectives</b>	<ul style="list-style-type: none"> <li>- Introduction to dental ethics.</li> <li>- Study the principle of fixed prosthesis attachment and support.</li> <li>- Study teeth preparation required for fixed prosthodontics.</li> </ul>
<b>9. Teaching and Learning Strategies</b>	
<b>Strategy</b>	<ul style="list-style-type: none"> <li>- Theory lectures and practical laboratories.</li> <li>- Educational videos and utilization of smart boards.</li> <li>- Use of educational models.</li> <li>- Focused student group discussion.</li> </ul>

<b>10. Course Structure</b>					
Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	1	Professional Ethics Review	Professional Ethics Review	Theory lectures	Theory exam
2	1	Professional Ethics Review	Professional Ethics Review	Theory lectures	Theory exam

## 10. Course Structure

Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
3	1	Professional Ethics Review	Professional Ethics Review	Theory lectures	Theory exam
4	1	Professional Ethics Review	Professional Ethics Review	Theory lectures	Theory exam
5	1	Principal Features of Dental Ethics	Principal Features of Dental Ethics	Theory lectures	Theory exam
6	1	Principal Features of Dental Ethics	Principal Features of Dental Ethics	Theory lectures	Theory exam
7	1	Ethical Law and ethical Theories	Ethical Law and ethical Theories	Theory lectures	Theory exam
8	1	Ethical Law and ethical Theories	Ethical Law and ethical Theories	Theory lectures	Theory exam
9	1	Fundamental Principles of dental ethics	Fundamental Principles of dental ethics	Theory lectures	Theory exam
10	1	Fundamental Principles of dental ethics	Fundamental Principles of dental ethics	Theory lectures	Theory exam
11	1	Duties and obligation of dentists	Duties and obligation of dentists	Theory lectures	Theory exam
12	1	Duties and obligation of dentists	Duties and obligation of dentists	Theory lectures	Theory exam
13	1	Duties and obligation of dentists	Duties and obligation of dentists	Theory lectures	Theory exam
14	1	Duties and obligation of dentists	Duties and obligation of dentists	Theory lectures	Theory exam
15	1	Duties and obligation of dentists	Duties and obligation of dentists	Theory lectures	Theory exam
16	1	Duties and obligation of dentists	Duties and obligation of dentists	Theory lectures	Theory exam

## 10. Course Structure

Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
17	1	Duties and obligation of dentists	Duties and obligation of dentists	Theory lectures	Theory exam
18	1	Ethical issues and challenges in dental practice	Ethical issues and challenges in dental practice	Theory lectures	Theory exam
19	1	Ethical issues and challenges in dental practice	Ethical issues and challenges in dental practice	Theory lectures	Theory exam
20	1	Ethical issues and challenges in dental practice	Ethical issues and challenges in dental practice	Theory lectures	Theory exam
21	1	Ethical issues and challenges in dental practice	Ethical issues and challenges in dental practice	Theory lectures	Theory exam
22	1	The impact of business on dentistry	The impact of business on dentistry	Theory lectures	Theory exam
23	1	Ethics and dental research	Ethics and dental research	Theory lectures	Theory exam
24	1	Ethics and dental research	Ethics and dental research	Theory lectures	Theory exam
25	1	Ethics and dental research	Ethics and dental research	Theory lectures	Theory exam
26	1	Ethics and dental research	Ethics and dental research	Theory lectures	Theory exam
27	1	The standard of care	The standard of care	Theory lectures	Theory exam
28	1	Ethical Decision Making and Conflicting Obligations	Ethical Decision Making and Conflicting Obligations	Theory lectures	Theory exam
29	1	Studying a Profession's Central Values	Studying a Profession's Central Values	Theory lectures	Theory exam
30	1	The duty to treat	The duty to treat	Theory lectures	Theory exam

<b>11.Course Evaluation</b>	
Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc	
<b>12.Learning and Teaching Resources</b>	
Required textbooks (curricular books, if any)	Dental ethics at chairside by David O ,David Sokol and Donald Patthoff
Main references (sources)	Dental ethics at chairside by David O ,David Sokol and Donald Patthoff
Recommended books and references (scientific journals, reports...)	Ethics
Electronic References, Websites	pubmed
Percentage of course update	3%

Name and signature of the course administrator	Name and signature of Head of the Department
<b>Assistant Prof Dr Manar M Alnema</b>	<b>Assistant Prof Dr Manar M Alnema</b>

## Course Description Form

<b>1. Course Name:</b>	
Dental Radiology	
<b>2. Course Code:</b>	
32610 DRAD	
<b>3. Semester / Year:</b>	
Third year / 2025-2026	
<b>4. Description Preparation Date:</b>	
01 Dec 2025	
<b>5. Available Attendance Forms:</b>	
Theoretical and practical	
<b>6. Number of Credit Hours (Total) / Number of Units (Total)</b>	
Theoretical: 30 hours, practical: 30 hours. Total units: 4	
<b>7. Course administrator's name (mention all, if more than one name)</b>	
Name: Lecturer Dr Shahrazad Sami      Email: <a href="mailto:shahrazadsaeed@uomosul.edu.iq">shahrazadsaeed@uomosul.edu.iq</a>	
<b>8. Course Objectives</b>	
<b>Course Objectives</b>	<ul style="list-style-type: none"> <li>- Introduction to dental radiography.</li> <li>- Study the principle of x-ray generation.</li> <li>- Study dental practices and radiographical techniques.</li> <li>- Practical hand-on on dental radiography.</li> </ul>
<b>9. Teaching and Learning Strategies</b>	
<b>Strategy</b>	<ul style="list-style-type: none"> <li>- Theory lectures and practical laboratories.</li> <li>- Educational videos and utilization of smart boards.</li> <li>- Use of educational models.</li> <li>- Focused student group discussion.</li> </ul>

## 10. Course Structure

### Theory part

Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	1	Physics of radiation Introduction and definitions of nature of radiation, type of radiation.	Introduction	Theory lectures	Theory exam
2	1	Production of radiation: x-ray machine, interaction of x-ray with matter, composition of matter	Principles of x-ray	Theory lectures	Theory exam
3	1	Film imaging: types of x-ray films, processing cycle, dark room, intensifying screen	Film imaging	Theory lectures	Theory exam
4	1	Factors controlling x-ray beam, dosimetry and inverse square law	x-ray beam	Theory lectures	Theory exam
5	1	Projection geometry Sharpness, distortion, image characteristic and artifacts.	Projections	Theory lectures	Theory exam
6	1	Biological effects of radiation; direct & indirect effects, deterministic and stochastic effect	Biological effects of radiation	Theory lectures	Theory exam
7	1	Safety and Protection Source of exposure, dose limits, exposure and risk and reducing dental exposure	Safety and Protection	Theory lectures	Theory exam
8	1	Intraoral projection (Periapical, bitewing, and occlusal radiography)	Intraoral projection	Theory lectures	Theory exam
9	1	Digital radiography Strength, limitations, comparing with conventional radiography and indications	Digital radiography	Theory lectures	Theory exam
10	1	Patient's management Management of child, contrast media & localization technique	Patient's management	Theory lectures	Theory exam
11	1	Cephalometric imaging technique, indications, evaluation of the Image	Cephalometric imaging	Theory lectures	Theory exam
12	1	Panoramic radiography Principles, techniques, position and interpretation.	Panoramic radiography	Theory lectures	Theory exam

## 10. Course Structure

### Theory part

Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
13	1	Craniofacial imaging: types, indication and interpretation	Craniofacial imaging	Theory lectures	Theory exam
14	1	Principles, components, strength and limitations.	CBCT	Theory lectures	Theory exam
15	1	Clinical applications in maxillofacial region, anatomy and interpretations.	CBCT	Theory lectures	Theory exam
16	1	Part1: teeth, supporting dento-alveolar structures, maxilla and mid facial bones.	Radiographic anatomy	Theory lectures	Theory exam
17	1	Part 2: mandible, TMJ, base of skull, air way, restorative materials.	Radiographic anatomy	Theory lectures	Theory exam
18	1	CT, MRI and ULTRASOUND	Advanced imaging	Theory lectures	Theory exam
19	1	Radiography & Implantology (modalities, indications)	Radiography & Implantology	Theory lectures	Theory exam
20	1	Infection control in radiography clinic, protection of patients, protection of workers.	Infection control	Theory lectures	Theory exam
21	1	Radiologic examination and guide lines for ordering imaging.	Prescribing diagnostic imaging	Theory lectures	Theory exam
22	1	Radiographical interpretations of common diseases: interpretation of dental caries, and periodontal disease	Radiographical interpretations	Theory lectures	Theory exam
23	1	Cysts of the jaw: odontogenic and non odontogenic cysts.	Cysts of the jaw	Theory lectures	Theory exam
24	1	Dental anomalies (acquired and developmental)	Dental anomalies	Theory lectures	Theory exam
25	1	Inflammatory conditions of the jaws (periapical inf disease, osteomyelitis, pericoronitis)	Inflammatory conditions	Theory lectures	Theory exam
26	1	Trauma (dento alveolar trauma, dental fractures and bone fractures.	Trauma	Theory lectures	Theory exam

## 10. Course Structure

### Theory part

Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
27	1	TMJ abnormalities (anatomy of TMJ, application)	TMJ abnormalities	Theory lectures	Theory exam
28	1	Salivary gland disease (imaging modalities, interpretation)	Salivary gland	Theory lectures	Theory exam
29	1	Craniofacial anomalies (Cleft lip and palate)	Craniofacial anomalies	Theory lectures	Theory exam
30	1	Computed tomography (indications ,strength, limitations)	Computed tomography	Theory lectures	Theory exam

### Practical part

Week	Hr	Laboratory subject	Learning method	Evaluation method
1	2	Fundamentals of radiology: component of x- ray machine and production of X-ray	Practical work	Practical exam
2	2	X-ray film (types and indication)	Practical work	Practical exam
3	2	Intraoral techniques(periapical, bite-wing and occlusal films)	Practical work	Practical exam
4	2	Ideal radiograph	Practical work	Practical exam
5	2	Land marks(maxilla, mandible)	Practical work	Practical exam
6	2	Dental panoramic radiography(indication and anatomy)	Practical work	Practical exam
7	2	CBCT (indication and anatomy)	Practical work	Practical exam
8	2	Cephalometric (indication and anatomy)	Practical work	Practical exam
9	2	Common disease (caries , PDL)	Practical work	Practical exam
10	2	Cyst(odontogenic and nonodontogenic)	Practical work	Practical exam
11	2	Clinical work	Practical work	Practical exam
12	2	Clinical work	Practical work	Practical exam
13	2	Clinical work	Practical work	Practical exam
14	2	Clinical work	Practical work	Practical exam
15	2	Clinical work	Practical work	Practical exam
16	2	Clinical work	Practical work	Practical exam
17	2	Clinical work	Practical work	Practical exam
18	2	Clinical work	Practical work	Practical exam
19	2	Clinical work	Practical work	Practical exam

<b>Practical part</b>				
<b>Week</b>	<b>Hr</b>	<b>Laboratory subject</b>	<b>Learning method</b>	<b>Evaluation method</b>
20	2	Clinical work	Practical work	Practical exam
21	2	Clinical work	Practical work	Practical exam
22	2	Clinical work	Practical work	Practical exam
23	2	Clinical work	Practical work	Practical exam
24	2	Clinical work	Practical work	Practical exam
25	2	Clinical work	Practical work	Practical exam
26	2	Clinical work	Practical work	Practical exam
27	2	Clinical work	Practical work	Practical exam
28	2	Clinical work	Practical work	Practical exam
29	2	Clinical work	Practical work	Practical exam
30	2	Clinical work	Practical work	Practical exam

### **11.Course Evaluation**

Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc

### **12.Learning and Teaching Resources**

Required textbooks (curricular books, if any)	
Main references (sources)	
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	
Percentage of course update	3%

Name and signature of the course administrator	Name and signature of Head of the Department
<b>Lecturer Dr Shahrazad Sami</b>	<b>Assistant Prof Dr Abdulsattar Salim</b>

## Course Description – Fourth year

### Course Description Form

<b>1. Course Name:</b>	
General Medicine	
<b>2. Course Code:</b>	
4261 GMED	
<b>3. Semester / Year:</b>	
Fourth year / 2025-2026	
<b>4. Description Preparation Date:</b>	
01 Dec 2025	
<b>5. Available Attendance Forms:</b>	
Theoretical	
<b>6. Number of Credit Hours (Total) / Number of Units (Total)</b>	
Theoretical: 30 hours, Total units: 2	
<b>7. Course administrator's name (mention all, if more than one name)</b>	
Name: Prof Dr Omer Waleed Majid Email: omerwaleedmajid@oumosul.edu.iq	
<b>8. Course Objectives</b>	
<b>Course Objectives</b>	<ul style="list-style-type: none"><li>• Recognize medical conditions that may affect dental care and treatment planning.</li><li>• Understand the systemic manifestations of diseases that may present with oral signs and symptoms.</li><li>• Identify medical emergencies that may occur in the dental clinic and manage them appropriately.</li><li>• Provide safe treatment for patients with special medical conditions by understanding their diseases and the medications they are taking.</li><li>• Communicate effectively with physicians and other healthcare providers to ensure the best possible care for the patient.</li><li>• In general, the study of internal medicine equips dental students with the knowledge necessary to provide safe, comprehensive, and patient-centered care.</li></ul>

## 9. Teaching and Learning Strategies

<b>Strategy</b>	<ul style="list-style-type: none"> <li>- Theory lectures.</li> <li>- Educational videos and utilization of smart boards.</li> <li>- Use of educational models.</li> <li>- Focused student group discussion.</li> </ul>
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## 10. Course Structure

### Theoretical Part

Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	1	Diabetes Mellitus 1	Medicine	Theory lectures	Theory exam
2	1	Diabetes Mellitus 2	Medicine	Theory lectures	Theory exam
3	1	White Blood Cells Disorders 1	Medicine	Theory lectures	Theory exam
4	1	White Blood Cells Disorders 2	Medicine	Theory lectures	Theory exam
5	1	Hemostasis and Bleeding Disorders 1	Medicine	Theory lectures	Theory exam
6	1	Hemostasis and Bleeding Disorders 2	Medicine	Theory lectures	Theory exam
7	1	Adrenal Gland Disorders 1	Medicine	Theory lectures	Theory exam
8	1	Adrenal Gland Disorders 2	Medicine	Theory lectures	Theory exam
9	1	Gastrointestinal Diseases	Medicine	Theory lectures	Theory exam
10	1	Peptic Ulcer Disease 1	Medicine	Theory lectures	Theory exam
11	1	Peptic Ulcer Disease 2	Medicine	Theory lectures	Theory exam
12	1	Intestine	Medicine	Theory lectures	Theory exam
13	1	Inflammatory Bowel Disease 1	Medicine	Theory lectures	Theory exam
14	1	Inflammatory Bowel Disease 2	Medicine	Theory lectures	Theory exam
15	1	Pseudomembranous Colitis	Medicine	Theory lectures	Theory exam
16	1	Hypertension	Medicine	Theory lectures	Theory exam
17	1	Infective Endocarditis	Medicine	Theory lectures	Theory exam
18	1	Ischemic Heart Disease	Medicine	Theory lectures	Theory exam
19	1	Heart Failure	Medicine	Theory lectures	Theory exam
20	1	Cardiac Arrhythmias	Medicine	Theory lectures	Theory exam
21	1	Thyroid Diseases	Medicine	Theory lectures	Theory exam
22	1	Kidney Diseases	Medicine	Theory lectures	Theory exam

## 10. Course Structure

### Theoretical Part

Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
23	1	Immunologic Diseases	Medicine	Theory lectures	Theory exam
24	1	Liver Diseases	Medicine	Theory lectures	Theory exam
25	1	Pulmonary Diseases	Medicine	Theory lectures	Theory exam
26	1	Red Blood Cells Disorders	Medicine	Theory lectures	Theory exam
27	1	Drug and Alcohol Abuse	Medicine	Theory lectures	Theory exam
28	1	Psychiatric Disorders	Medicine	Theory lectures	Theory exam
29	1	Anxiety and Eating Disorders	Medicine	Theory lectures	Theory exam
30	1	Neurologic Disorders	Medicine	Theory lectures	Theory exam

## 11. Course Evaluation

Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc

## 12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	1. Dental Management of the Medically Compromised Patient, Ninth Edition, 2018 2. Essentials of Medicine for Dental Students
Main references (sources)	
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	
Percentage of course update	3%

Name and signature of the course administrator	Name and signature of Head of the Department
<b>Prof Dr Omer Waleed Majid</b>	<b>Assistant Prof Dr Manar M Alnema</b>

## Course Description Form

<b>1. Course Name:</b>	
General Surgery	
<b>2. Course Code:</b>	
4262 GSUG	
<b>3. Semester / Year:</b>	
Fourth year / 2025-2026	
<b>4. Description Preparation Date:</b>	
01 Dec 2025	
<b>5. Available Attendance Forms:</b>	
Theoretical	
<b>6. Number of Credit Hours (Total) / Number of Units (Total)</b>	
Theoretical: 30 hours, Total units: 2	
<b>7. Course administrator's name (mention all, if more than one name)</b>	
Name: Prof Dr Ziyad Hazim Email: ziaddeleme@uomosul.edu.iq	
<b>8. Course Objectives</b>	
<b>Course Objectives</b>	Teaching theoretical subjects related to general surgery and providing students with general surgery knowledge
<b>9. Teaching and Learning Strategies</b>	
<b>Strategy</b>	<ul style="list-style-type: none"> <li>- Theory lectures.</li> <li>- Educational videos and utilization of smart boards.</li> <li>- Use of educational models.</li> <li>- Focused student group discussion.</li> </ul>

## 10. Course Structure

### Theoretical Part

Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2	Metabolic response to Injury	Surgery	Theory lectures	Theory exam
2	2	Basic concepts in homeostasis	Surgery	Theory lectures	Theory exam
3	1	Mediators of the metabolic response to Injury	Surgery	Theory lectures	Theory exam
4	1	Physiological response to injury	Surgery	Theory lectures	Theory exam
5	1	THE 'EBB and FLOW' Model	Surgery	Theory lectures	Theory exam
6	1	Insulin resistance	Surgery	Theory lectures	Theory exam
7	2	Avoidable factors that compound	Surgery	Theory lectures	Theory exam
8	2	The Response to Injury	Surgery	Theory lectures	Theory exam
9	2	Systemic inflammation and tissue Response	Surgery	Theory lectures	Theory exam
10	2	Wound Healing	Surgery	Theory lectures	Theory exam
11	1	Introduction	Surgery	Theory lectures	Theory exam
12	1	Classification of wound Healing	Surgery	Theory lectures	Theory exam
13	1	Normal sequence of wound Healing	Surgery	Theory lectures	Theory exam
14	2	Factors affecting healing (local & systemic)	Surgery	Theory lectures	Theory exam
15	2	Complications of wound Healing	Surgery	Theory lectures	Theory exam
16	2	Surgical wound Infections	Surgery	Theory lectures	Theory exam
17	2	Surgical sepsis	Surgery	Theory lectures	Theory exam
18	2	Types of Wounds	Surgery	Theory lectures	Theory exam

<b>11.Course Evaluation</b>	
Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc	
<b>12.Learning and Teaching Resources</b>	
Required textbooks (curricular books, if any)	Baily and Love's short practice of surgery 27th edition 2018
Main references (sources)	
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	
Percentage of course update	3%

Name and signature of the course administrator	Name and signature of Head of the Department
<b>Prof Dr Ziyad Hazim Aldelemee</b>	<b>Assistant Prof Dr Manar M Alnema</b>

## Course Description Form

<b>1. Course Name:</b>	
Oral Pathology	
<b>2. Course Code:</b>	
4263 OPATH	
<b>3. Semester / Year:</b>	
Fourth year / 2025-2026	
<b>4. Description Preparation Date:</b>	
01 Dec 2025	
<b>5. Available Attendance Forms:</b>	
Theoretical and practical	
<b>6. Number of Credit Hours (Total) / Number of Units (Total)</b>	
Theoretical: 60 hours, practical: 60 hours. Total units: 6	
<b>7. Course administrator's name (mention all, if more than one name)</b>	
Name: Assist Prof Dr Manar M Al-Nema Email: <a href="mailto:manaralnema@uomosul.edu.iq">manaralnema@uomosul.edu.iq</a> Lect Rayan Al-Mallah <a href="mailto:rayyanalmallah@uomosul.edu.iq">rayyanalmallah@uomosul.edu.iq</a>	
<b>8. Course Objectives</b>	
<b>Course Objectives</b>	Correlating clinical pathological cases with their microscopic observations Linking clinical disease cases with their microscopic appearance
<b>9. Teaching and Learning Strategies</b>	
<b>Strategy</b>	<ul style="list-style-type: none"> <li>- Theory lectures and practical laboratories.</li> <li>- Educational videos and utilization of smart boards.</li> <li>- Use of educational models.</li> <li>- Focused student group discussion.</li> </ul>

<b>10. Course Structure</b>					
<b>Theoretical Part</b>					
Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2	Biopsy in oral pathology	Biopsy in oral pathology	Theory lectures	Theory exam

## 10. Course Structure

### Theoretical Part

Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
2	2	Healing in oral pathology	Healing in oral pathology	Theory lectures	Theory exam
3	2	Caries	Caries	Theory lectures	Theory exam
4	2	Pulpitis	Pulpitis	Theory lectures	Theory exam
5	2	Periapical pathology	Periapical pathology	Theory lectures	Theory exam
6	2	Osteomyelitis	Osteomyelitis	Theory lectures	Theory exam
7	2	Developmental disorders of teeth	Developmental disorders of teeth	Theory lectures	Theory exam
8	2	Developmental disorders of hard & soft tissues	Developmental disorders of hard & soft tissues	Theory lectures	Theory exam
9	2	Non odontogenic cysts	Non odontogenic cysts	Theory lectures	Theory exam
10	2	Odontogenic cysts	Odontogenic cysts	Theory lectures	Theory exam
11	2	Odontogenic tumors 1	Odontogenic tumors 1	Theory lectures	Theory exam
12	2	Odontogenic tumors2	Odontogenic tumors2	Theory lectures	Theory exam
13	2	Benign epithelial lesions,leukoplakia	Benign epithelial lesions,leukoplakia	Theory lectures	Theory exam
14	2	Epithelial hyperplasia,atrophy & dysplasia	Epithelial hyperplasia,atrophy & dysplasia	Theory lectures	Theory exam
15	2	Squamous cell carcinoma & other malignant leoplasms	Squamous cell carcinoma & other malignant leoplasms	Theory lectures	Theory exam

## 10. Course Structure

### Theoretical Part

Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
16	1	fibro osseous lesions, metabolic and genetic conditions	fibro osseous lesions, metabolic and genetic conditions	Theory lectures	Theory exam
17	1	Giant cell lesions	Giant cell lesions	Theory lectures	Theory exam
18	1	Benign tumors of the bone	Benign tumors of the bone	Theory lectures	Theory exam
19	1	malignant tumors of the bone	malignant tumors of the bone	Theory lectures	Theory exam
20	1	viral infection	viral infection	Theory lectures	Theory exam
21	1	bacterial and fungal infection	bacterial and fungal infection	Theory lectures	Theory exam
22	1	Immune mediated disorder 1	Immune mediated disorder 1	Theory lectures	Theory exam
23	1	Immune mediated disorder 2	Immune mediated disorder 2	Theory lectures	Theory exam
24	1	connective tissue lesions 1	connective tissue lesions 1	Theory lectures	Theory exam
25	1	connective tissue lesions 2	connective tissue lesions 2	Theory lectures	Theory exam
26	1	salivary gland disorders	salivary gland disorders	Theory lectures	Theory exam
27	1	salivary gland neoplasms	salivary gland neoplasms	Theory lectures	Theory exam
28	1	physical and chemical injuries	physical and chemical injuries	Theory lectures	Theory exam
29	1	Hematopoietic tumors	Hematopoietic tumors	Theory lectures	Theory exam

## 10. Course Structure

### Theoretical Part

Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
30	1	Forensic dentistry	Forensic dentistry	Theory lectures	Theory exam

### Practical part

Week	Hr	Laboratory subject	Learning method	Evaluation method
1	2	Biopsy in oral pathology	Practical work	Practical exam
2	2	Healing in oral pathology	Practical work	Practical exam
3	2	Caries	Practical work	Practical exam
4	2	Pulpitis	Practical work	Practical exam
5	2	Periapical pathology	Practical work	Practical exam
6	2	Osteomyelitis	Practical work	Practical exam
7	2	Developmental disorders of teeth	Practical work	Practical exam
8	2	Developmental disorders of hard & soft tissues	Practical work	Practical exam
9	2	Non odontogenic cysts	Practical work	Practical exam
10	2	Odontogenic cysts	Practical work	Practical exam
11	2	Odontogenic tumors 1	Practical work	Practical exam
12	2	Odontogenic tumors2	Practical work	Practical exam
13	2	Benign epithelial lesions,leukoplakia	Practical work	Practical exam
14	2	Epithelial hyperplasia,atrophy & dysplasia	Practical work	Practical exam
15	2	Squamous cell carcinoma & other malignant leoplasms	Practical work	Practical exam
16	2	fibro osseous lesions, metabolic and genetic conditions	Practical work	Practical exam
17	2	Giant cell lesions	Practical work	Practical exam
18	2	Benign tumors of the bone	Practical work	Practical exam
19	2	malignant tumors of the bone	Practical work	Practical exam
20	2	viral infection	Practical work	Practical exam
21	2	bacterial and fungal infection	Practical work	Practical exam
22	2	Immune mediated disorder 1	Practical work	Practical exam
23	2	Immune mediated disorder 2	Practical work	Practical exam
24	2	connective tissue lesions 1	Practical work	Practical exam
25	2	connective tissue lesions 2	Practical work	Practical exam
26	2	salivary gland disorders	Practical work	Practical exam

<b>Practical part</b>				
<b>Week</b>	<b>Hr</b>	<b>Laboratory subject</b>	<b>Learning method</b>	<b>Evaluation method</b>
27	2	salivary gland neoplasms	Practical work	Practical exam
28	2	physical and chemical injuries	Practical work	Practical exam
29	2	Hematopoietic tumors	Practical work	Practical exam
30	2	Forensic dentistry	Practical work	Practical exam

<b>11.Course Evaluation</b>	
Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc	
<b>12.Learning and Teaching Resources</b>	
Required textbooks (curricular books, if any)	Cawson's Essentialis of oral pathology & oral medicine(ninth edition) by E.W.Odell
Main references (sources)	Cawson's Essentialis of oral pathology & oral medicine(ninth edition) by E.W.Odell
Recommended books and references (scientific journals, reports...)	Oral & maxillofacial pathology(fourth edition)by Neville,Damm,Allen & Chi Oral pathology (fourth edition)by Soames & Southam Rosai & Ackerman's surgical pathology(tenth edition) by Juan Rosai Also many important case reports published in dental journals
Electronic References, Websites	Cawson's Essentialis of oral pathology & oral medicine(ninth edition) by E.W.Odell
Percentage of course update	3%

Name and signature of the course administrator	Name and signature of Head of the Department
<b>Assistant Prof Dr Manar M Alnema</b>	<b>Assistant Prof Dr Manar M Alnema</b>

## Course Description Form

<b>1. Course Name:</b>	
Paediatric Dentistry	
<b>2. Course Code:</b>	
4264 PED	
<b>3. Semester / Year:</b>	
Fourth year / 2025-2026	
<b>4. Description Preparation Date:</b>	
01 Dec 2025	
<b>5. Available Attendance Forms:</b>	
Theoretical and practical	
<b>6. Number of Credit Hours (Total) / Number of Units (Total)</b>	
Theoretical: 30 hours, practical: 60 hours. Total units: 4	
<b>7. Course administrator's name (mention all, if more than one name)</b>	
Name: Assist Prof Dr Alah Dawood Mahmood	
Email: <a href="mailto:alahdawood@uomosul.edu.iq">alahdawood@uomosul.edu.iq</a>	
<b>8. Course Objectives</b>	
<b>Course Objectives</b>	<ul style="list-style-type: none"> <li>• Teaching and guiding students on how to deal with children.</li> <li>• Clarifying a comprehensive diagnostic and treatment plan using modern methods.</li> <li>• Training students on the correct scientific principles and methods for treating children's teeth.</li> <li>• Conducting health surveys, field visits, and educational lectures.</li> </ul>
<b>9. Teaching and Learning Strategies</b>	
<b>Strategy</b>	<ul style="list-style-type: none"> <li>- Theory lectures and practical laboratories.</li> <li>- Educational videos and utilization of smart boards.</li> <li>- Use of educational models.</li> <li>- Focused student group discussion.</li> </ul>

## 10. Course Structure

### Theoretical Part

Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	1	How the teeth erupt, the importance of knowing time of eruption	Eruption of teeth , normal eruption process	Theory lectures	Theory exam
2	1	Understanding what will happen when teeth start to erupt	Teething and difficult eruption	Theory lectures	Theory exam
3	1	Learning about the problem occupying eruption of teeth	Eruption haematoma , sequestrum ,ectopic eruption	Theory lectures	Theory exam
4	1	Understanding teeth shedding and the factors effect on this process	Epstein pearls, Bohn nodules, Dental lamina cysts, Shedding of the primary teeth, Mechanism of resorption and shedding, Factors causes differences in time of eruption	Theory lectures	Theory exam
5	1	Have an idea about how systemic diseases effect on teeth eruption	Systemic (disease) Factors which cause late eruption Deciduous Dentition Period, Ugly Duckling Stage	Theory lectures	Theory exam
6	1	Learning about teeth morphology	Morphology of the primary teeth	Theory lectures	Theory exam
7	1	Understanding the clinical appearances of teeth	Normal morphology of all primary teeth and their clinical consideration	Theory lectures	Theory exam

## 10. Course Structure

### Theoretical Part

Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
8	1	Recognize the morphological variation of primary from permanent	Morphological differences between primary and permanent teeth	Theory lectures	Theory exam
9	1	Know about the importance of teeth function	Functions of primary teeth	Theory lectures	Theory exam
10	1	Identify caries, how the lesion s form and their types	Dental caries; Definition and Classification	Theory lectures	Theory exam
11	1	Recognise different types of caries	Rampant dental caries, Early childhood caries,	Theory lectures	Theory exam
12	1	Understanding the meaning of sterilised restorative field	Restorative dentistry for children Isolation & maintenance of dry field and application of the rubber Dam	Theory lectures	Theory exam
13	1	Learning about the differences in cavities design following teeth morphology	Morphological consideration ,cavity preparation Cavity preparation on primary teeth,	Theory lectures	Theory exam
14	1	Know about materials use in restorative dentistry	Restorative materials used on pediatric dentistry	Theory lectures	Theory exam
15	1	Know about materials use in restorative dentistry	Matrice & retainers	Theory lectures	Theory exam
16	1	know about materials use in restorative dentistry	Chrome steel crowns, ART	Theory lectures	Theory exam

## 10. Course Structure

### Theoretical Part

Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
17	1	How to treat carious lesions of various progression	Treatment of deep caries	Theory lectures	Theory exam
18	1	How to treat carious lesions of various progression	Indirect pulp treatment	Theory lectures	Theory exam
19	1	How to treat carious lesions of various progression	Vital pulp therapy pulpotomy	Theory lectures	Theory exam
20	1	How to treat carious lesions of various progression	Non vital pulp therapy technique	Theory lectures	Theory exam
21	1	Know about materials use in restorative dentistry	Reaction of pulp to various capping material	Theory lectures	Theory exam
22	1	Learning about the pain and anaesthetic effect	Local anesthesia and pain control for children	Theory lectures	Theory exam
23	1	Understanding different anaesthetic techniques	Anesthetizing mandibular and maxillary teeth and soft tissue	Theory lectures	Theory exam
24	1	Know about the complication of anaesthesia	complications after a local anesthetic	Theory lectures	Theory exam
25	1	Understanding different anaesthetic techniques	supplemental injection techniques	Theory lectures	Theory exam
26	1	Learning about teeth extraction for paediatric patients	Oral surgery for children, indication and contraindications for extraction of primary teeth,	Theory lectures	Theory exam

## 10. Course Structure

### Theoretical Part

Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
27	1	Understanding different extraction techniques	technique for extraction of primary teeth, extraction complications	Theory lectures	Theory exam
28	1	Know about the complication of extraction	postoperative extraction complications, radiographic survey of teeth extracted	Theory lectures	Theory exam
29	1	Learning about space preservation following loss of primary teeth	Type of space maintainer(indication and contraindication)	Theory lectures	Theory exam
30	1	Recognise different infectious conditions , their causes and treatments	Infections manifestation and management	Theory lectures	Theory exam

### Practical part

Week	Hr	Laboratory subject	Learning method	Evaluation method
1	2	Hypodontia among children	Seminar	Exams
2	2	Anodontia among children	Seminar	Exams
3	2	Rampant caries among children	Seminar	Exams
4	2	Staining among children	Seminar	Exams
5	2	Types of Caries removal techniques	Seminar	Exams
6	2	Restoration of primary and young permanent teeth with variety types of restorative materials	Seminar	Exams

7	2	Rubber dam	Seminar	Exams
8	2	Minor oral surgery	Seminar	Exams
9	2	Thumb sucking habits	Seminar	Exams
10	2	Pulp therapy for permanent dentition	Seminar	Exams
11	2	Pulp therapy for primary dentition	Seminar	Exams
12	2	Materials used for pulp therapy	Seminar	Exams
13	2	Crowns in pediatric dentistry	Seminar	Exams
14	2	Nail biting among children	Seminar	Exams
15	2	Maintenance of pulp vitality by use of regenerative materials	Seminar	Exams
16	2	Root canal treatment for anterior non vital teeth	Seminar	Exams
17	2	Root canal treatment	Seminar	Exams
18	2	Management of molar incisor hypomineralization MIH	Seminar	Exams
19	2	Behavior management for young patients	Seminar	Exams
20	2	Infection control re-assurance and guidance of students	Seminar	Exams
21	2	Tooth colored restoration technique	Seminar	Exams
22	2	Radiographic prescription and interpretation of results	Seminar	Exams
23	2	Space maintainers	Seminar	Exams
24	2	Fluoride application as a preventive measure	Seminar	Exams
25	2	Cleft lip and palate	Seminar	Exams
26	2	Supernumerary teeth and their impact on teeth eruption	Seminar	Exams

27	2	Management of medically compromised children	Seminar	Exams
28	2	Diagnosis and treatment plan	Seminar	Exams
29	2	ART technique	Seminar	Exams
30	2	Periodontal diseases in children	Seminar	Exams

### 11. Course Evaluation

Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc

### 12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Mcdonald and Avery's dentistry for child and adolescent 2022 by elsevier Text book of pediatric dentistry nikhil marwa 2nd ed. 2019 new delhi
Main references (sources)	-Principles and practice of pedodontics /Arathi -Rao Jaypee/second edition2008 -Pediatric Dentistry Damile 3rd ed. 2009 -Paediatric Dentistry/ Richard Welbury/ 4 <sup>th</sup> ed Oxford University Press, 2012
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	
Percentage of course update	3%

Name and signature of the course administrator	Name and signature of Head of the Department
<b>Assistant Prof Dr Alah Dawood</b>	<b>Assistant Prof Dr Sarmad Al-Qassar</b>

## Course Description Form

<b>1. Course Name:</b>	
Periodontology	
<b>2. Course Code:</b>	
4265 PERI	
<b>3. Semester / Year:</b>	
Fourth year / 2025-2026	
<b>4. Description Preparation Date:</b>	
01 Dec 2025	
<b>5. Available Attendance Forms:</b>	
Theoretical and practical	
<b>6. Number of Credit Hours (Total) / Number of Units (Total)</b>	
Theoretical: 30 hours, practical: 90 hours. Total units: 5	
<b>7. Course administrator's name (mention all, if more than one name)</b>	
Name: Lecturer Dr Gayath Abdulbarry Al-Jawadi Email: <a href="mailto:ghayathaljawady@uomosul.edu.iq">ghayathaljawady@uomosul.edu.iq</a>	
<b>8. Course Objectives</b>	
<b>Course Objectives</b>	<ul style="list-style-type: none"> <li>- Introduction to periodontics.</li> <li>- Study the aitiology of periodontal disease.</li> <li>- Study the principle of hand instruments, grasping and support.</li> <li>- Study the principles of manual scaling and polishing.</li> </ul>
<b>9. Teaching and Learning Strategies</b>	
<b>Strategy</b>	<ul style="list-style-type: none"> <li>- Theory lectures and practical laboratories.</li> <li>- Educational videos and utilization of smart boards.</li> <li>- Use of educational models.</li> <li>- Focused student group discussion.</li> </ul>

## 10. Course Structure

### Theory part

Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	1	Terms & definitions frequently used in periodontology	Definitions	Theory lectures	Theory exam
2	1	Anatomy of the periodontium	Anatomy	Theory lectures	Theory exam
3	1	Oral mucosa: Gingiva Macroscopic features: Marginal gingiva, Attached gingiva, Interdental papilla. Microscopic features: Oral epithelium, Sulcular epithelium, Junctional epithelium, Epithelial connective tissue interface. Gingival connective tissue (gingival fibers and cellular elements) Gingival sulcus and gingival crevicular fluid Blood Supply, Lymphatics, and Nerves Clinical features of gingiva in health and diseased gingiva: Color, Physiologic pigmentation, Size, Contour, Shape, Consistency, Texture, Position	Oral mucosa: Gingiva	Theory lectures	Theory exam
4	1	Periodontal ligaments (PDL) Cellular elements Ground substance Development of principal fibers of PDL Functions of periodontal ligaments: Physical functions, Formative and Remodeling Function, Nutritional and sensory functions. Clinical consideration	Periodontal ligaments	Theory lectures	Theory exam
5	1	Cementum: Definition Function of cementum Classification of cementum: Acellular afibrillar cementum, Acellular extrinsic fiber cementum, Cellular mixed stratified	Anatomy of the periodontium	Theory lectures	Theory exam

## 10. Course Structure

### Theory part

Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
		cementum, Cellular intrinsic fiber cementum Development and mineralization of cementum Cementoenamel junction Cementodentinal junction Thickness of Cementum in response to physiologic and pathologic conditions, Normal thickness Cemental aplasia, Hypercementosis, Ankylosis neoplastic and nonneoplastic			
6	1	Alveolar process: Definition, Function of alveolar process, Parts of the alveolar process, Alveolar bone proper, An external plate of cortical bone Cancellous trabeculae or spongy bone Basal bone Anatomic division of the alveolar process: Interproximal bone, Inter radicular bone Radicular bone: Composition of the bone, Cellular elements, Organic components, Inorganic components Haversian system or Osteon Periosteum and Endosteum Remodeling of alveolar bone	Anatomy of the periodontium	Theory lectures	Theory exam
7	1	Classification of periodontal diseases and conditions (2017) Reasons for classification Major changes from previous classification Periodontal health and gingival diseases and conditions Periodontal health and gingival health: Clinical gingival health on an intact periodontium	Classification of periodontal disease	Theory lectures	Theory exam

## 10. Course Structure

### Theory part

Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
		Clinical gingival health on a reduced periodontium: Stable periodontitis Non-periodontitis patients The classification of dental biofilm induced gingivitis: Associated with bacterial dental biofilm only Mediated by systemic or local risk factors Systemic conditions Oral factors enhancing plaque accumulation Drug-influenced gingival enlargements Case definition of gingivitis: Gingivitis on an intact periodontium Gingivitis on a reduced periodontium Non-dental biofilm induced gingival disease: Genetic/developmental disorders Specific infections Inflammatory and immune conditions and lesions Reactive processes Neoplasms Endocrine, nutritional, and metabolic diseases Traumatic lesions Gingival pigmentation			
8	1	Classification of periodontal diseases and conditions (2017) Periodontitis Periodontitis (Extent, Staging, Grading, Status, Risk factors) Necrotizing periodontal diseases: Necrotizing gingivitis, Necrotizing periodontitis, Necrotizing Stomatitis)	Classification of periodontal disease	Theory lectures	Theory exam

## 10. Course Structure

### Theory part

Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
		Periodontitis as a manifestation of systemic disease Peri-implant disease and conditions: Peri- implant health, Peri-implant mucositis, Peri-implantitis, Peri-implant soft and hard tissues deficiency			
9	1	Classification of periodontal diseases and conditions (2017) Other conditions affecting the periodontium Periodontal abscess: Periodontal abscess in periodontitis patients Periodontal abscess in non-periodontitis patients Endodontic periodontal lesions: Endo-periodontal lesions associated with endodontic and periodontal infections Endo-periodontal lesions associated with trauma and iatrogenic factors Mucogingival deformity and conditions Traumatic occlusal force Tooth and prosthetic related factors	Classification of periodontal disease	Theory lectures	Theory exam
10	1	Etiology of periodontal disease Periodontal disease pathogenesis Mechanisms of pathogenicity Histopathology of periodontal disease: Clinically healthy gingival tissues Histopathology of gingivitis and periodontitis: The initial lesion The early lesion, The established lesion The advanced lesion: Inflammatory responses in the periodontium: Microbial virulence factors: Lipopolysaccharide, Bacterial enzymes, Microbial invasion	Etiology of periodontal disease	Theory lectures	Theory exam

## 10. Course Structure

### Theory part

Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
		Fimbriae, Bacterial DNA, Host-Derived Inflammatory Mediators: Cytokines, Prostaglandins, Matrix metalloproteinases			
11	1	<p>Etiology of periodontal disease and risk factors</p> <p>Dental plaque biofilm and periodontal microbiology</p> <p>Definitions: Supragingival plaque, Subgingival plaque, Structure of a mature dental plaque biofilm</p> <p>Accumulation of a dental plaque biofilm: Formation of the pellicle, Initial adhesion/attachment of bacteria, Colonization and plaque maturation</p> <p>Factors affecting supragingival dental plaque formation:</p> <p>Topography of supragingival plaque, Surface microroughness, Individual variables that influence plaque formation, Variation within the dentition</p> <p>Impact of gingival inflammation and saliva</p> <p>Impact of patient's age</p> <p>Spontaneous tooth cleaning</p> <p>Metabolism of dental plaque bacteria</p> <p>Communication between biofilm bacteria</p> <p>Biofilms and antimicrobial resistance</p>	Etiology of periodontal disease and risk factors	Theory lectures	Theory exam
12	1	<p>Dental calculus</p> <p>Clinical appearance and distribution (Supragingival and Subgingival Calculus)</p> <p>Calculus formation:</p> <p>Theories of calculus formation</p>	Dental calculus	Theory lectures	Theory exam

## 10. Course Structure

### Theory part

Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
		Calculus composition: Inorganic content, Organic content Attachment to tooth surfaces and implants Clinical significance			
13	1	Dental stain Color and color perception Classification of tooth discoloration: Intrinsic discoloration, Extrinsic discoloration, Internalized discoloration The mechanisms of tooth discoloration Prevention Treatment approaches	Dental stain	Theory lectures	Theory exam
14	1	Etiology of periodontal disease Risk factors for periodontal diseases: o Definitions of risk factors Systemic risk factors: Modifiable risk factors, Non-modifiable risk factors Local predisposing factors: Calculus, Iatrogenic factors, Margins of restorations, Malocclusion Associated with orthodontic therapy Local anatomic risk factors	Etiology of periodontal disease	Theory lectures	Theory exam
15	1	Etiology of periodontal disease Molecular biology of host–microbe interactions Microbe-associated molecular patterns Toll-like receptors: Toll-like receptor-4–lipopolysaccharide recognition, Toll-like receptor-2–lipoprotein/lipoteichoic acid/peptidoglycan recognition Role of toll-like receptors in periodontitis	Etiology of periodontal disease	Theory lectures	Theory exam

## 10. Course Structure

### Theory part

Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
		Complement system: Classical/Lectin/Alternative pathways, Role of complement in periodontitis			
16	1	Etiology of periodontal disease and risk factors Smoking and Periodontal Disease Effects of smoking on the prevalence and severity of periodontal diseases: Gingivitis, Periodontitis Effects of smoking on the etiology and pathogenesis of periodontal disease: Microbiology Immune–inflammatory responses Physiology Effects of smoking on the response to periodontal therapy: Nonsurgical Therapy, Surgical Therapy and Implants, Maintenance Therapy Effects of smoking cessation on periodontal treatment outcomes	Etiology of periodontal disease and risk factors	Theory lectures	Theory exam
17	1	Impact of periodontal infection on systemic health Focal infection theory revisited Subgingival environment as a reservoir for bacteria Periodontal disease, coronary heart disease, and atherosclerosis: Ischemic heart disease Atherosclerosis Periodontal disease and stroke Periodontal disease and diabetes mellitus: o Periodontal infection associated with glycemic control in diabetes	Impact of periodontal infection on systemic health	Theory lectures	Theory exam
18	1	Impact of periodontal infection on systemic health Periodontal disease and asthma Periodontal disease and pregnancy outcome	Impact of periodontal infection on systemic health	Theory lectures	Theory exam

## 10. Course Structure

### Theory part

Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
		Periodontal disease and chronic obstructive pulmonary disease Periodontal disease and acute respiratory infections			
19	1	Periodontal indices Definitions Gingival index (Loe and Silness) Plaque index (Silness and Loe) Plaque index (O'leary) Plaque index (Quigely Hein) Probing pocket depth Clinical attachment loss Basic Periodontal Examination (BPE) Modified Gingival Index Bleeding on probing Furcation involvement index Calculus index Recession index (Miller) Recession index (Cairo)	Periodontal indices	Theory lectures	Theory exam
20	1	The periodontal pocket Classification Clinical features Pathogenesis Histopathology: Bacterial invasion Microtopography of the gingival wall Periodontal pockets as healing lesions Pocket contents Root surface walls	The periodontal pocket	Theory lectures	Theory exam
21	1	The periodontal pocket Periodontal disease activity Pulp changes associated with periodontal pockets Relationship of attachment loss and bone loss to pocket depth Area between base of pocket and alveolar bone Relationship of pocket to bone	The periodontal pocket	Theory lectures	Theory exam

## 10. Course Structure

### Theory part

Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
		Periodontal abscess Lateral periodontal cyst			
22	1	Treatment plan guidelines Phase 1 (behavior change, removal of supragingival dental biofilm and risk factor control): o Self-performed supragingival biofilm control: Oral hygiene practices to control gingival inflammation Behavioral change for oral hygiene improvement Motivational interviewing and cognitive behavioral therapy Adjunctive therapies for gingival inflammation Professional supragingival dental biofilm control Risk factor control: Local risk factor control Tobacco smoking cessation interventions Promotion of diabetes control interventions	Treatment plan guidelines	Theory lectures	Theory exam
23	1	Treatment plan guidelines Phase 2 (cause-related therapy) Subgingival instrumentation: Scaling Root planning Removal of plaque-retentive factors Use of adjunctive systemically administered antibiotics to subgingival instrumentation Re-evaluation of the cause-related therapy Decision to refer for specialist	Treatment plan guidelines	Theory lectures	Theory exam
24	1	Treatment plan guidelines Phase 3 (corrective/surgical phase) Objectives of surgical therapy Periodontal access surgery: Respective Regenerative	Treatment plan guidelines	Theory lectures	Theory exam

## 10. Course Structure

### Theory part

Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
		Extraction of hopeless teeth Periodontal plastic surgery: Mucogingival surgery Aesthetic crown lengthening Pre-prosthetic surgery: Crown lengthening Implant site preparation			
25	1	Treatment plan guidelines Phase 4 (maintenance therapy) Clinical recommendations Self-performed supragingival dental biofilm control Adjunctive therapies for gingival inflammation Professional supragingival dental biofilm control Risk factor control	Treatment plan guidelines	Theory lectures	Theory exam
26	1	Plaque biofilm control for the periodontal patient The toothbrush: Toothbrush design, Powered toothbrushes Dentifrices, Toothbrushing methods Interdental cleaning aids: Dental floss, Interdental brushes, Other interdental cleaning devices Oral irrigation: Supragingival irrigation, Subgingival irrigation Caries control	Plaque biofilm control for the periodontal patient	Theory lectures	Theory exam
27	1	Plaque biofilm control for the periodontal patient Chemical plaque biofilm control with oral rinses: Chlorhexidine digluconate: Mode of action, Clinical use, Side-effects Nonprescription essential oil rinse Other products Disclosing agents Patient motivation and education: Motivation for effective plaque biofilm control	Plaque biofilm control for the periodontal patient	Theory lectures	Theory exam

## 10. Course Structure

### Theory part

Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
		Education and scoring systems: Plaque biofilm control record (O'Leary Index) Bleeding points index Instruction and demonstration			
28	1	Periodontal instruments and sharpening Types of periodontal instruments: Diagnostic instruments, Scaling, root planning, and curettage instruments, Plastic and Titanium Instruments for Implants Cleansing and polishing instruments Surgical instruments Instrument stabilization: Instrument Grasping, Finger Rest Condition of the instruments and resharping	Periodontal instruments and sharpening	Theory lectures	Theory exam
29	1	Breath Malodor (Halitosis) Definitions, Epidemiology, Classification Etiology: Intraoral Causes: Tongue and tongue coating, Periodontal infections, Dental disorders, Dry mouth Extraoral Causes: Pseudo-halitosis or Halitophobia, Diagnosis of malodor Prevention and management: Mechanical reduction of intraoral nutrients and microorganisms Chemical reduction of oral microbial load: Chlorhexidine, Essential oils, Chlorine dioxide, Two-phase oil-water rinse, Triclosan, Hydrogen Peroxide Amine Fluoride or Stannous Fluoride	Breath Malodor (Halitosis)	Theory lectures	Theory exam

## 10. Course Structure

### Theory part

Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
		Conversion of volatile sulfur compounds: Metal Salt Solutions, Masking the Malodor			
30	1	Systemic anti-infective therapy for periodontal diseases Definitions Common antibiotic regimens used to treat periodontal diseases Tetracyclines: Specific agents: Tetracycline, Minocycline, Doxycycline, Metronidazole Penicillin derivatives: Amoxicillin, Amoxicillin–Clavulanate Potassium, Cephalosporins, Clindamycin Ciprofloxacin, Macrolides Single vs combination antibiotic therapy Clinical implications	Systemic anti-infective therapy for periodontal diseases	Theory lectures	Theory exam

### Practical part

Laboratory sessions are conducted in a practical manner, with hands-on application on models and mannequins, and familiarization with the instruments used in the clinic.

The number of practical hours is 90 hours — 3 hours for each clinical session over a period of 30 weeks.

<b>11.Course Evaluation</b>	
Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc	
<b>12.Learning and Teaching Resources</b>	
Required textbooks (curricular books, if any)	Clinical Periodontology and Implant Dentistry 2015 Newman and Carranza's Clinical Periodontology 2019
Main references (sources)	Journals in periodontology
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	
Percentage of course update	3%

Name and signature of the course administrator	Name and signature of Head of the Department
<b>Lect Dr Gayath Abdulbary Al-Jawadi</b>	<b>Assistant Prof Dr Manar M Alnema</b>

## Course Description Form

<b>1. Course Name:</b>	
Orthodontics	
<b>2. Course Code:</b>	
4266 ORTH	
<b>3. Semester / Year:</b>	
Fourth year / 2025-2026	
<b>4. Description Preparation Date:</b>	
12 Dec 2025	
<b>5. Available Attendance Forms:</b>	
Theoretical and practical	
<b>6. Number of Credit Hours (Total) / Number of Units (Total)</b>	
Theoretical: 30 hours, practical: 120 hours. Total units: 6	
<b>7. Course administrator's name (mention all, if more than one name)</b>	
Name: Assist Prof Dr Saaid Al-Sammak Email: <a href="mailto:saaid_sammak@uomosul.edu.iq">saaid_sammak@uomosul.edu.iq</a>	
<b>8. Course Objectives</b>	
<b>Course Objectives</b>	<ul style="list-style-type: none"> <li>- Introduction to orthodontics.</li> <li>- Study the effect of tooth movement.</li> <li>- Study the principle of removable orthodontic appliance .</li> <li>- Study the principles of manual wire bending.</li> <li>- Study the biomechanics</li> </ul>
<b>9. Teaching and Learning Strategies</b>	
<b>Strategy</b>	<ul style="list-style-type: none"> <li>- Theory lectures and practical laboratories.</li> <li>- Educational videos and utilization of smart boards.</li> <li>- Use of educational models.</li> <li>- Focused student group discussion.</li> </ul>

## 10. Course Structure

### Theory part

Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	1	Introduction - Definition of orthodontics - Definition of occlusion, normal, ideal and malocclusion	Orthodontics	Theory lectures	Theory exam
2	1	- Six keys of normal occlusion - Aims of orthodontic treatment	Orthodontics	Theory lectures	Theory exam
3	1	- Important orthodontic definitions - Classification of malocclusion	Orthodontics	Theory lectures	Theory exam
4	1	Growth and development - Definitions of growth, development and maturity - Stages of development (ovum till birth)	Orthodontics	Theory lectures	Theory exam
5	1	- Theories of bone growth - Definitions of growth site, growth center, displacement, and drift	Orthodontics	Theory lectures	Theory exam
6	1	- Growth curve and maximum growth spurt - Prenatal and postnatal growth and development of hard tissues	Orthodontics	Theory lectures	Theory exam
7	1	- Prenatal and postnatal growth and development of soft tissues - Developmental anomalies	Orthodontics	Theory lectures	Theory exam
8	1	- Jaw rotation - Compensation and adaptation	Orthodontics	Theory lectures	Theory exam
9	1	Deciduous and permanent dentition a-Stages of tooth development: (Formation, calcification and root completion)	Orthodontics	Theory lectures	Theory exam
10	1	b-Tooth eruption (stages and theories), Sequences and timing of eruption	Orthodontics	Theory lectures	Theory exam
11	1	Development of occlusion a. new born oral cavity. b. Deciduous dentition stage - Dental changes till 6 years of age.	Orthodontics	Theory lectures	Theory exam

## 10. Course Structure

### Theory part

Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
12	1	c. Early mixed dentition stage - eruption of first molars and incisors. d. Late mixed dentition stage - eruption of canines and premolars e. Permanent dentition - eruption second and third molars.	Orthodontics	Theory lectures	Theory exam
13	1	Etiology of malocclusion: -Genetic and inherited etiological factors of malocclusion	Orthodontics	Theory lectures	Theory exam
14	1	-Classification of etiological factors a. General factors i. Skeletal factors	Orthodontics	Theory lectures	Theory exam
15	1	ii. Soft tissue factors	Orthodontics	Theory lectures	Theory exam
16	1	iii. dental factors	Orthodontics	Theory lectures	Theory exam
17	1	b. Local factors (definitions without treatment)	Orthodontics	Theory lectures	Theory exam
18	1	Tooth movement a. Tissue changes associated with tooth movement: i. Histology of periodontium ii. Theories of tooth movement b. Accelerated tooth movement.	Orthodontics	Theory lectures	Theory exam
19	1	c. Biomechanics i. Force (application, type, magnitude, duration and direction) ii. Center of resistance and rotation, moment of force and moment of couple. iii. Types of tooth movement iv. Rate of tooth movement and factors affecting it.	Orthodontics	Theory lectures	Theory exam

## 10. Course Structure

### Theory part

Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
20	1	d. iatrogenic effect of orthodontic treatment (pain, mobility, pulp effect, root resorption, white spot lesions).	Orthodontics	Theory lectures	Theory exam
21	1	Biomechanics	Orthodontics	Theory lectures	Theory exam
22	1	Anchorage (definition, indications, types)	Orthodontics	Theory lectures	Theory exam
23	1	Orthodontic appliances a. Overview: i. passive orthodontic appliances (habit breaker, retainer and space maintainer) ii. active orthodontic appliances (removable, fixed, orthopedic and myofunctional, and combination) iii. Other active appliances: space regainer, Invisalign, lingual orthodontics)	Orthodontics	Theory lectures	Theory exam
24	1	b. Removable Orthodontic Appliance: i. Properties of various components (SS wire, acrylic) ii. Components: 1) active components (springs, screws and elastics) 2) retentive components (clasps) 3) acrylic base plate and bite planes 4) anchorage	Orthodontics	Theory lectures	Theory exam
25	1	iii. Design of a removable orthodontic appliance iv. Construction of a removable orthodontic appliance v. Soldering and welding vi. Post-insertion instructions and guidelines	Orthodontics	Theory lectures	Theory exam

## 10. Course Structure

### Theory part

Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
26	1	c. Fixed orthodontic appliance: Types, components, advantages, limitation, biomechanics, banding vs. bonding	Orthodontics	Theory lectures	Theory exam
27	1	d. Orthopedic and Myofunctional appliance: Types, components, advantages, limitation, mode of action	Orthodontics	Theory lectures	Theory exam
28	1	continue Orthopedic and Myofunctional appliance: Types, components, advantages, limitation, mode of action	Orthodontics	Theory lectures	Theory exam
29	1	f. Retention and retainers -Retention (definition, reason, time) -Retainers (Hawley, clear overlay, positioners, permanent fixation, precision)	Orthodontics	Theory lectures	Theory exam
30	1	Continue retention and retainers	Orthodontics	Theory lectures	Theory exam

### Practical part

Laboratory sessions are conducted practically with hands-on application on models to fabricate orthodontic appliances, including designing wires, learning how to bend orthodontic wires, and constructing the base of orthodontic appliances using resin materials, as well as becoming familiar with the instruments used in the clinic.

The total number of practical hours is 120 hours — 4 hours for each clinical session over a period of 30 weeks.

<b>11.Course Evaluation</b>	
Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc	
<b>12.Learning and Teaching Resources</b>	
Required textbooks (curricular books, if any)	<ol style="list-style-type: none"> <li>1. Singh G. Textbook of orthodontics. 3<sup>rd</sup> ed. New Delhi: Jaypee Brothers Medical Publishers (P) Ltd.; 2015.</li> <li>2. Littlewood SJ, Mitchell L. An introduction to orthodontics. 5<sup>th</sup> ed. Oxford: Oxford university press; 2019.</li> <li>4. Proffit WR, Fields Jr HW, Larson BE, Sarver DM. Contemporary orthodontics. 6<sup>th</sup> ed. Philadelphia: Elsevier; 2019</li> </ol>
Main references (sources)	Graber LW, Vanarsdall RL, Vig KWL, Huang Orthodontics: current principles and techniques. 6 <sup>th</sup> St. Louis: Elsevier.
Recommended books and references (scientific journals, reports...)	Nakajima E. Manual of wire bending technique. 1 <sup>st</sup> Chicago: Quintessence Publishing Co., Inc; 2010.
Electronic References, Websites	Pubmed, sciencedirect
Percentage of course update	3%

Name and signature of the course administrator	Name and signature of Head of the Department
<b>Assist Prof Dr Saaid Al-Sammak</b>	<b>Assistant Prof Dr Sarmad Al-Qassar</b>

## Course Description Form

<b>1. Course Name:</b>	
Oral Surgery	
<b>2. Course Code:</b>	
4267 OSUR	
<b>3. Semester / Year:</b>	
Fourth year	
<b>4. Description Preparation Date:</b>	
01 March 2025	
<b>5. Available Attendance Forms:</b>	
Theoretical and practical	
<b>6. Number of Credit Hours (Total) / Number of Units (Total)</b>	
Theoretical: 30 hours, practical: 120 hours. Total units: 6	
<b>7. Course administrator's name (mention all, if more than one name)</b>	
Name: Lect Yusra Hamid Email: yusra_hamid@uomosul.edu.iq	
<b>8. Course Objectives</b>	
<b>Course Objectives</b>	<ul style="list-style-type: none"> <li>- Introduction to Oral Surgery.</li> <li>- Study the methods of tooth extraction.</li> <li>- Study the principle of surgical treatment of infection.</li> <li>- Study the principles of manual scaling and polishing.</li> </ul>
<b>9. Teaching and Learning Strategies</b>	
<b>Strategy</b>	<ul style="list-style-type: none"> <li>- Theory lectures and practical laboratories.</li> <li>- Educational videos and utilization of smart boards.</li> <li>- Use of educational models.</li> <li>- Focused student group discussion.</li> </ul>

## 10. Course Structure

### Theoretical Part

Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	1	Cardiovascular diseases	Oral Surgery	Theory lectures	Theory exam
2	1	Cardiac arrhythmia	Oral Surgery	Theory lectures	Theory exam
3	1	Bleeding disorder	Oral Surgery	Theory lectures	Theory exam
4	1	Endocrinology	Oral Surgery	Theory lectures	Theory exam
5	1	Pulmonary diseases	Oral Surgery	Theory lectures	Theory exam
6	1	Liver Diseases	Oral Surgery	Theory lectures	Theory exam
7	1	Chronic kidney disease and dialysis	Oral Surgery	Theory lectures	Theory exam
8	1	Neurologic disorders	Oral Surgery	Theory lectures	Theory exam
9	1	Pregnancy	Oral Surgery	Theory lectures	Theory exam
10	1	AIDS and HIV infection	Oral Surgery	Theory lectures	Theory exam
11	1	Rheumatologic and connective tissue disorders	Oral Surgery	Theory lectures	Theory exam
12	1	Allergy	Oral Surgery	Theory lectures	Theory exam
13	1	Patients on radiotherapy and chemotherapy	Oral Surgery	Theory lectures	Theory exam
14	1	Odontogenic infections and fascial space infections	Oral Surgery	Theory lectures	Theory exam
15	1	Fascial space infections	Oral Surgery	Theory lectures	Theory exam
16	1	Principles of treatment of odontogenic infections	Oral Surgery	Theory lectures	Theory exam

## 10. Course Structure

### Theoretical Part

Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
17	1	Principles of Flaps, suturing and management of difficult extraction	Oral Surgery	Theory lectures	Theory exam
18	1	Management of difficult extraction	Oral Surgery	Theory lectures	Theory exam
19	1	Principles of management of impacted teeth	Oral Surgery	Theory lectures	Theory exam
20	1	Impacted upper third molars	Oral Surgery	Theory lectures	Theory exam
21	1	Impacted mandibular canines	Oral Surgery	Theory lectures	Theory exam
22	1	Surgical aids to orthodontics	Oral Surgery	Theory lectures	Theory exam
23	1	Principles of endodontic surgery	Oral Surgery	Theory lectures	Theory exam
24	1	Surgical procedure	Oral Surgery	Theory lectures	Theory exam
25	1	Osteomyelitis and osteonecrosis of the jaw	Oral Surgery	Theory lectures	Theory exam
26	1	Radiation induced osteomyelitis and osteoradionecrosis	Oral Surgery	Theory lectures	Theory exam
27	1	Dental Implants: Basic Concepts and Techniques	Oral Surgery	Theory lectures	Theory exam
28	1	Surgical Treatment Planning Considerations	Oral Surgery	Theory lectures	Theory exam
29	1	Biopsy in oral and maxillofacial surgery	Oral Surgery	Theory lectures	Theory exam
30	1	Diagnostic imaging in oral and maxillofacial surgery	Oral Surgery	Theory lectures	Theory exam

## Clinical Part

History taking: Includes patient communication skills, chief complaint, past dental history, medical history and family history, risk assessment associated with common medical conditions with regards to dental extraction .

- Clinical examination and diagnosis: Components of clinical examination with demonstration of extra oral and intra oral examination (lymph node palpation, TMJ palpation with the focus on the accused tooth/teeth), diagnosis of cases in patients case sheet with regards to dental extraction
- Basic surgical instruments I: Instrument to incise tissue, instrument for control of hemorrhage, instrument for grasping tissues, instruments for reflection of mucoperiosteal flap, instrument for cutting the bone
- Basic surgical instruments II: Instruments of retracting the cheek and mucosa, instruments of suturing, types of suture materials, types of suturing needles, instrument for suction, instruments of irrigation, instruments of patient draping and cable management .
- Dental forceps I: Indication of using dental forceps, part of a dental forceps, forceps of maxillary teeth .
- Dental forceps II: Forceps of mandibular teeth, physics forceps .
- Dental elevators I: Indications, mechanical principles of using elevators, straight elevators, Coupland chisel, Winters elevator
- Dental elevators II: Cryers elevator, apixo elevator, Warwick-James elevator, periostomes, guiding principles of using dental elevators .
- Local anesthetics (instruments & materials). Demonstartion of local anesthetic dental syringe, dental injection needles, types of different local anesthetics, topical measures of injection pain reduction, automized injectors
- Maxillary injection techniques: Hands on demonstration on special manikin of Infiltration of upper anterior teeth, infiltration of premolars and molars, nerve block of long sphenopalatine and greater palatine nerves, periodontal ligament injection .
- Mandibular injection techniques. Hands on demonstration on special manikin of infiltration injections, and inferior alveolar nerve block, long buccal nerve block and mental nerve block, periodontal ligament injection and intra-bony injections .

- Maxillary teeth extraction: Hand on demonstration on manikin of maxillary teeth extraction with dental forceps.

<b>11.Course Evaluation</b>	
Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc	
<b>12.Learning and Teaching Resources</b>	
Required textbooks (curricular books, if any)	1. Little and Falace's Dental Management of the Medically Compromised Patient 9th Edition 2. Contemporary Oral and Maxillofacial Surgery, 7th Edition
Main references (sources)	
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	
Percentage of course update	3%

Name and signature of the course administrator	Name and signature of Head of the Department
<b>Lect Yusra Hamid</b>	<b>Assistant Prof Dr Manar M Alnema</b>

## Course Description Form

<b>1. Course Name:</b>	
Operative and Esthetic Dentistry and Endodontics	
<b>2. Course Code:</b>	
4268 COND	
<b>3. Semester / Year:</b>	
Fourth year / 2025-2026	
<b>4. Description Preparation Date:</b>	
01 Dec 2025	
<b>5. Available Attendance Forms:</b>	
Theoretical and practical	
<b>6. Number of Credit Hours (Total) / Number of Units (Total)</b>	
Theoretical: 30 hours, practical: 180 hours. Total units: 8	
<b>7. Course administrator's name (mention all, if more than one name)</b>	
Name: Assist Prof Dr Shaymaa Shakir Hassan Email: shaymaahassan@uomosul.edu.iq	
<b>8. Course Objectives</b>	
<b>Course Objective</b>	<p>and dentin into the clinical practice of operative dentistry to ensure the protection of dental pulpal health.</p> <p>Master the diagnosis and management of carious and non-carious lesions, with a focus on evidence-based strategies in restorative dentistry.</p> <p>Develop advanced clinical skills in direct composite restorations (Class I; II; III; IV and Class V) and indirect adhesive restorations, including Inlays, Onlays, and Ceramic Veneers.</p> <p>Equip students with the technical proficiency to perform endodontic procedures, including precise access opening, working length estimation, and mechanical instrumentation.</p> <p>Master the biological and mechanical principles of three-dimensional root canal obturation to ensure a hermetic seal and long-term success of the treatment.</p> <p>Understand and apply modern dental technologies, such as CAD/CAM techniques and Dental Lasers, within the scope of conservative and restorative dentistry.</p>

Analyze patient evaluation data to formulate comprehensive treatment plans that address both functional and aesthetic requirements.

## 9. Teaching and Learning Strategies

### Strategy

- Utilize interactive presentations and high-quality multimedia (videos and 3D modeling) to illustrate the complex histology of dental tissues and the simplified anatomical modeling of restorations.
- Implement a systematic preclinical laboratory program using extracted teeth and acrylic blocks to bridge the gap between theoretical knowledge and manual dexterity.
- Provide step-by-step clinical demonstrations for critical procedures, such as rubber dam application, roentgenography in endodontics, and modern instrumentation techniques.
- Adopt a "Milestone-Based" assessment approach through seven sequential laboratory quizzes to ensure students master each phase (Access, Instrumentation, Obturation) before progressing.
- Promote evidence-based clinical reasoning by providing access to the latest research on fluoride-releasing materials, adhesive systems, and laser applications via electronic platforms.
- Facilitate hands-on experience with CAD/CAM technology and laboratory-processed composite systems to prepare students for modern digital dental practice.

## 10. Course Structure

### Theoretical Part

Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	1	Biologic Considerations of Enamel structure and its Clinical Significance in Practice of Operative Dentistry.	Operative & Esthetic Dentistry	Theory lectures	Theory exam

## 10. Course Structure

### Theoretical Part

Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
2	1	Biologic Considerations of Enamel structure and its Clinical Significance in Practice of Operative Dentistry.	Operative & Esthetic Dentistry	Theory lectures	Theory exam
3	1	Biologic Considerations of Dentin structure & its Clinical Significance in Operative Dentistry	Operative & Esthetic Dentistry	Theory lectures	Theory exam
4	1	Biologic Considerations of Dentin structure & its Clinical Significance in Operative Dentistry	Operative & Esthetic Dentistry	Theory lectures	Theory exam
5	1	Patient Evaluation , Diagnosis & Treatment Planning	Operative & Esthetic Dentistry	Theory lectures	Theory exam
6	1	Caries Management (Diagnosis & treatment strategies)	Operative & Esthetic Dentistry	Theory lectures	Theory exam
7	1	Cervical Lesions(carious and non carious lesions)	Operative & Esthetic Dentistry	Theory lectures	Theory exam
8	1	Restorative Dentistry and Pulpal Health	Operative & Esthetic Dentistry	Theory lectures	Theory exam
9	1	Management of Deep Seated Caries	Operative & Esthetic Dentistry	Theory lectures	Theory exam
10	1	Inflammatory Conditions of the Pulp	Operative & Esthetic Dentistry	Theory lectures	Theory exam
11	1	Treatment of Deep Seated Caries Simplified anatomical modeling.	Operative & Esthetic Dentistry	Theory lectures	Theory exam
12	1	Fluoride – Releasing Materials	Operative & Esthetic Dentistry	Theory lectures	Theory exam
13	1	Indirect aesthetic adhesive restorations	Operative & Esthetic Dentistry	Theory lectures	Theory exam

## 10. Course Structure

### Theoretical Part

Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
		Inlays and Onlays (materials ,techniques) CAD/CAM Technology.			
14	1	Direct tooth-colored restorations( Composite)	Operative & Esthetic Dentistry	Theory lectures	Theory exam
15	1	Dental Laser	Operative & Esthetic Dentistry	Theory lectures	Theory exam
16	1	Application of Laser in Conservative Dentistry.	Operative & Esthetic Dentistry	Theory lectures	Theory exam
17	1	Application of Laser in Conservative Dentistry.	Operative & Esthetic Dentistry	Theory lectures	Theory exam
18	1	Indirect tooth-colored restorations	Operative & Esthetic Dentistry	Theory lectures	Theory exam
19	1	Techniques of posterior composite Inlay/Onlay restoration system Laboratory-processed composite inlays and onlays.	Operative & Esthetic Dentistry	Theory lectures	Theory exam
20	1	Ceramic veneers, inlays and onlays, clinical procedures.	Operative & Esthetic Dentistry	Theory lectures	Theory exam
21	1	Ceramic veneers, inlays and onlays, clinical procedures.	Operative & Esthetic Dentistry	Theory lectures	Theory exam
22	1	CAD/CAM techniques	Operative & Esthetic Dentistry	Theory lectures	Theory exam
23	1	CAD/CAM techniques	Pre_Clinical Endodontics	Theory lectures	Theory exam
24	1	Objective of endodontic treatment	Pre_Clinical Endodontics	Theory lectures	Theory exam
25	1	2- Basic Phases of Treatment	Pre_Clinical Endodontics	Theory lectures	Theory exam

## 10. Course Structure

### Theoretical Part

Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
26	1	3- Pulp pathologies	Endodontic treatment	Theory lectures	Theory exam
27	1	Classification of periapical diseases	Endodontic treatment	Theory lectures	Theory exam
28	1	Access Opening Preparation	Endodontic treatment	Theory lectures	Theory exam
29	1	Endodontic Instruments	Endodontic treatment	Theory lectures	Theory exam
30	1	Roentgenography in Endodontics and Root canal preparation	Endodontic treatment	Theory lectures	Theory exam

### Practical part

Week	Hr	Laboratory subject	Learning method	Evaluation method
1	2	<ul style="list-style-type: none"> <li>▪ Composite Restorations (Class I, Class II, Class III, Class IV, and Class V)</li> <li>Preclinical Endodontic (Introduction)</li> </ul>	Clinical performance	Clinical evaluation
2	2	<ul style="list-style-type: none"> <li>▪ Composite Restorations (Class I, Class II, Class III, Class IV, and Class V)</li> <li>Preclinical Endodontic (Block construction)</li> </ul>	Clinical performance	Clinical evaluation
3	2	<ul style="list-style-type: none"> <li>▪ Composite Restorations (Class I, Class II, Class III, Class IV, and Class V)</li> <li>Preclinical Endodontic (Diagnosis)</li> </ul>	Clinical performance	Clinical evaluation
4	2	<ul style="list-style-type: none"> <li>▪ Composite Restorations (Class I, Class II, Class III, Class IV, and Class V)</li> <li>Preclinical Endodontic (Quiz 1 in lab 1 ,2 &amp;3 + Access opening)</li> </ul>	Clinical performance	Clinical evaluation
5	2	<ul style="list-style-type: none"> <li>▪ Composite Restorations (Class I, Class II, Class III, Class IV, and Class V)</li> <li>Preclinical Endodontic (Quiz 2 in lab 4 + Clinical access opening to one anterior tooth and two premolar teeth)</li> </ul>	Clinical performance	Clinical evaluation
6	2	<ul style="list-style-type: none"> <li>▪ Composite Restorations (Class I, Class II, Class III, Class IV, and Class V)</li> <li>Preclinical Endodontic (Clinical access opening to one anterior tooth and two premolar teeth)</li> </ul>	Clinical performance	Clinical evaluation

<b>Practical part</b>				
<b>Week</b>	<b>Hr</b>	<b>Laboratory subject</b>	<b>Learning method</b>	<b>Evaluation method</b>
7	2	<ul style="list-style-type: none"> <li>▪ Composite Restorations (Class I, Class II, Class III, Class IV, and Class V)</li> <li>Preclinical Endodontic (Clinical access opening to one anterior tooth and two premolar teeth)</li> </ul>	Clinical performance	Clinical evaluation
8	2	<ul style="list-style-type: none"> <li>▪ Composite Restorations (Class I, Class II, Class III, Class IV, and Class V)</li> <li>Preclinical Endodontic (Instruments)</li> </ul>	Clinical performance	Clinical evaluation
9	2	<ul style="list-style-type: none"> <li>▪ Composite Restorations (Class I, Class II, Class III, Class IV, and Class V)</li> <li>Preclinical Endodontic (Equipment and materials)</li> </ul>	Clinical performance	Clinical evaluation
10	2	<ul style="list-style-type: none"> <li>▪ Composite Restorations (Class I, Class II, Class III, Class IV, and Class V)</li> <li>Preclinical Endodontic (Quiz 3 clinical quiz in lab 8&amp;9, Working length estimation demonstration)</li> </ul>	Clinical performance	Clinical evaluation
11	2	<ul style="list-style-type: none"> <li>▪ Composite Restorations (Class I, Class II, Class III, Class IV, and Class V)</li> <li>Preclinical Endodontic (Quiz 4 in lab 10 + clinical working length estimation on the same three teeth.</li> </ul>	Clinical performance	Clinical evaluation
12	2	<ul style="list-style-type: none"> <li>▪ Composite Restorations (Class I, Class II, Class III, Class IV, and Class V)</li> <li>Preclinical Endodontic (clinical working length estimation on the same three teeth).</li> </ul>	Clinical performance	Clinical evaluation
13	2	<ul style="list-style-type: none"> <li>▪ Composite Restorations (Class I, Class II, Class III, Class IV, and Class V)</li> <li>Preclinical Endodontic (clinical working length estimation on the same three teeth).</li> </ul>	Clinical performance	Clinical evaluation
14	2	<ul style="list-style-type: none"> <li>▪ Composite Restorations (Class I, Class II, Class III, Class IV, and Class V)</li> <li>Preclinical Endodontic (clinical working length estimation on the same three teeth.</li> </ul>	Clinical performance	Clinical evaluation
15	2	<ul style="list-style-type: none"> <li>▪ Composite Restorations (Class I, Class II, Class III, Class IV, and Class V)</li> <li>Preclinical Endodontic (Rubber dam application)</li> </ul>	Clinical performance	Clinical evaluation
16	2	<ul style="list-style-type: none"> <li>▪ Composite Restorations (Class I, Class II, Class III, Class IV, and Class V)</li> <li>Preclinical Endodontic (Quiz 5 clinical quiz in lab 15)</li> </ul>	Clinical performance	Clinical evaluation
17	2	<ul style="list-style-type: none"> <li>▪ Composite Restorations (Class I, Class II, Class III, Class IV, and Class V)</li> <li>Preclinical Endodontic (Review)</li> </ul>	Clinical performance	Clinical evaluation
18	2	<ul style="list-style-type: none"> <li>▪ Composite Restorations (Class I, Class II, Class III, Class IV, and Class V)</li> </ul>	Clinical performance	Clinical evaluation

<b>Practical part</b>				
<b>Week</b>	<b>Hr</b>	<b>Laboratory subject</b>	<b>Learning method</b>	<b>Evaluation method</b>
		Preclinical Endodontic (Root canal instrumentation)		
19	2	<ul style="list-style-type: none"> <li>▪ Composite Restorations (Class I, Class II, Class III, Class IV, and Class V)</li> </ul> Preclinical Endodontic (Quiz 6 in lab 18 + clinical instrumentation to the same teeth)	Clinical performance	Clinical evaluation
20	2	<ul style="list-style-type: none"> <li>▪ Composite Restorations (Class I, Class II, Class III, Class IV, and Class V)</li> </ul> Preclinical Endodontic (clinical instrumentation to the same teeth)	Clinical performance	Clinical evaluation
21	2	<ul style="list-style-type: none"> <li>▪ Composite Restorations Class I, Class II, Class III, Class IV, and Class V)</li> </ul> Preclinical Endodontic (clinical instrumentation to the same teeth)	Clinical performance	Clinical evaluation
22	2	<ul style="list-style-type: none"> <li>▪ Composite Restorations (Class I, Class II, Class III, Class IV, and Class V)</li> </ul> Preclinical Endodontic (clinical instrumentation to the same teeth)	Clinical performance	Clinical evaluation
23	2	<ul style="list-style-type: none"> <li>▪ Composite Restorations (Class I, Class II, Class III, Class IV, and Class V)</li> </ul> Preclinical Endodontic (clinical instrumentation to the same teeth)	Clinical performance	Clinical evaluation
24	2	<ul style="list-style-type: none"> <li>▪ Composite Restorations (Class I, Class II, Class III, Class IV, and Class V)</li> </ul> Preclinical Endodontic (Root canal obturation).	Clinical performance	Clinical evaluation
25	2	<ul style="list-style-type: none"> <li>▪ Composite Restorations (Class I, Class II, Class III, Class IV, and Class V)</li> </ul> Preclinical Endodontic (Quiz 7 in lab 24 +clinical obturation to three teeth).	Clinical performance	Clinical evaluation
26	2	<ul style="list-style-type: none"> <li>▪ Composite Restorations (Class I, Class II, Class III, Class IV, and Class V)</li> </ul> Preclinical Endodontic (clinical obturation to three teeth.)	Clinical performance	Clinical evaluation
27	2	<ul style="list-style-type: none"> <li>▪ Composite Restorations (Class I, Class II, Class III, Class IV, and Class V)</li> </ul> Preclinical Endodontic (clinical obturation to three teeth).	Clinical performance	Clinical evaluation
28	2	<ul style="list-style-type: none"> <li>▪ Composite Restorations (Class I, Class II, Class III, Class IV, and Class V)</li> </ul> Preclinical Endodontic (Review)	Clinical performance	Clinical evaluation
29	2	<ul style="list-style-type: none"> <li>▪ Composite Restorations (Class I, Class II, Class III, Class IV, and Class V)</li> </ul>	Clinical performance	Clinical evaluation

Practical part				
Week	Hr	Laboratory subject	Learning method	Evaluation method
		Preclinical Endodontic (Review)		
30	2	<ul style="list-style-type: none"> <li>▪ Composite Restorations Class I, Class II, Class III, Class IV, and Class V</li> </ul> Preclinical Endodontic (Review)	Clinical performance	Clinical evaluation

### 11. Course Evaluation

20 marks practical requirements.

10 marks midyear practical exam. 10 marks midyear theoretical exam.

25 marks final practical exam 35 marks final theoretical exam

### 12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Summitt's fundamentals of operative dentistry: A contemporary approach. 4th edition. Dental composite materials for direct restoration. Vesna Miletic Springer, eBook, 2018. Textbook of operative dentistry. 3rd edition. Nisha Garg, Amit Garg . Cohen's Pathways of the Dental Pulp. 12th ed. Louis H. Berman and Kenneth M. Hargreaves. Textbook of Endodontics. 2nd ed. 2010. Nisha Garg, Amit Garg.
Main references (sources)	
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	
Percentage of course update	3%

Name and signature of the course administrator	Name and signature of Head of the Department
<b>Assist Prof Dr Shaymaa Shakir Hassan</b>	<b>Assistant Prof Dr Alaa Idrees Dawood</b>

## Course Description Form

<b>1. Course Name:</b>	
Prosthodontics	
<b>2. Course Code:</b>	
4269 PROS	
<b>3. Semester / Year:</b>	
Fourth year / 2025-2026	
<b>4. Description Preparation Date:</b>	
01 Dec 2025	
<b>5. Available Attendance Forms:</b>	
Theoretical and practical	
<b>6. Number of Credit Hours (Total) / Number of Units (Total)</b>	
Theoretical: 30 hours, practical: 90 hours. Total units: 5	
<b>7. Course administrator's name (mention all, if more than one name)</b>	
Name: Assist Prof Dr Ranaa Rabee Email: Rana2009@uomosul.edu.iq	
<b>8. Course Objectives</b>	
<b>Course Objectives</b>	Educating and training students on the proper scientific principles and methods for treating patients, including the use of modern materials and techniques in the fabrication of complete and partial dentures.
<b>9. Teaching and Learning Strategies</b>	
<b>Strategy</b>	<ul style="list-style-type: none"> <li>- Theory lectures and practical laboratories.</li> <li>- Educational videos and utilization of smart boards.</li> <li>- Use of educational models.</li> <li>- Focused student group discussion.</li> </ul>

<b>10. Course Structure</b>					
<b>Theoretical Part</b>					
Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	1	Anatomy and physiology as related to dental prosthesis (osteology)	Prosthodontics	Theory lectures	Theory exam

## 10. Course Structure

### Theoretical Part

Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
2	1	Anatomy and physiology as related to dental prosthesis (Myology)	Prosthodontics	Theory lectures	Theory exam
3	1	Diagnosis and treatment plan for RPD	Prosthodontics	Theory lectures	Theory exam
4	1	Diagnosis and treatment (continued)	Prosthodontics	Theory lectures	Theory exam
5	1	Preparation of the mouth to receive an RPD	Prosthodontics	Theory lectures	Theory exam
6	1	Preparation of the mouth to receive an RPD (Continued).	Prosthodontics	Theory lectures	Theory exam
7	1	Classification of impression technique	Prosthodontics	Theory lectures	Theory exam
8	1	Classification of impression technique (continued)	Prosthodontics	Theory lectures	Theory exam
9	1	Designing Support	Prosthodontics	Theory lectures	Theory exam
10	1	Fitting the removable partial denture framework	Prosthodontics	Theory lectures	Theory exam
11	1	Occlusal Relationship for Removable Partial Denture	Prosthodontics	Theory lectures	Theory exam
12	1	Jaw relation in RPD	Prosthodontics	Theory lectures	Theory exam
13	1	Trial RPD	Prosthodontics	Theory lectures	Theory exam
14	1	Initial placement and adjustment of RPD	Prosthodontics	Theory lectures	Theory exam
15	1	Pre- prosthetic surgery	Prosthodontics	Theory lectures	Theory exam
16	1	Pre-prosthetic Surgical Considerations (Continued).	Prosthodontics	Theory lectures	Theory exam
17	1	Diagnosis and treatment plan CD	Prosthodontics	Theory lectures	Theory exam
18	1	diagnosis and treatment plan for CD (continued)	Prosthodontics	Theory lectures	Theory exam

## 10. Course Structure

### Theoretical Part

Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
19	1	Impression in CD	Prosthodontics	Theory lectures	Theory exam
20	1	TMJ and mandibular movement.	Prosthodontics	Theory lectures	Theory exam
21	1	Digital RPD	Prosthodontics	Theory lectures	Theory exam
22	1	Vertical jaw relation	Prosthodontics	Theory lectures	Theory exam
23	1	Horizontal jaw relation (Centric occlusion)	Prosthodontics	Theory lectures	Theory exam
24	1	Try in stage in CD	Prosthodontics	Theory lectures	Theory exam
25	1	Insertion of CD	Prosthodontics	Theory lectures	Theory exam
26	1	Adjustments of CD	Prosthodontics	Theory lectures	Theory exam
27	1	Post insertion complications in CD	Prosthodontics	Theory lectures	Theory exam
28	1	relining and rebasing of CD	Prosthodontics	Theory lectures	Theory exam
29	1	Repair of fractured RPD	Prosthodontics	Theory lectures	Theory exam
30	1	Esthetic denture materials	Prosthodontics	Theory lectures	Theory exam

### Practical part

Week	Hr	Laboratory subject	Learning method	Evaluation method
1	3	Acrylic RPD (bounded saddle).	Clinical performance	Clinical evaluation
2	3	Acrylic RPD (bounded saddle).	Clinical performance	Clinical evaluation
3	3	Acrylic RPD (bounded saddle).	Clinical performance	Clinical evaluation

<b>Practical part</b>				
<b>Week</b>	<b>Hr</b>	<b>Laboratory subject</b>	<b>Learning method</b>	<b>Evaluation method</b>
4	3	Acrylic RPD (bounded saddle).	Clinical performance	Clinical evaluation
5	3	Acrylic RPD (bounded saddle).	Clinical performance	Clinical evaluation
6	3	Acrylic RPD (bounded saddle).	Clinical performance	Clinical evaluation
7	3	Acrylic RPD (bounded saddle).	Clinical performance	Clinical evaluation
8	3	Acrylic RPD (bounded saddle).	Clinical performance	Clinical evaluation
9	3	Acrylic RPD (free end extension).	Clinical performance	Clinical evaluation
10	3	Acrylic RPD (free end extension).	Clinical performance	Clinical evaluation
11	3	Acrylic RPD (free end extension).	Clinical performance	Clinical evaluation
12	3	Acrylic RPD (free end extension).	Clinical performance	Clinical evaluation
13	3	Acrylic RPD (free end extension).	Clinical performance	Clinical evaluation
14	3	Acrylic RPD (free end extension).	Clinical performance	Clinical evaluation
15	3	Acrylic RPD (free end extension).	Clinical performance	Clinical evaluation
16	3	Acrylic RPD (free end extension).	Clinical performance	Clinical evaluation
17	3	Acrylic RPD (free end extension).	Clinical performance	Clinical evaluation
18	3	Acrylic RPD (free end extension).	Clinical performance	Clinical evaluation
19	3	Acrylic RPD (free end extension).	Clinical performance	Clinical evaluation
20	3	Acrylic RPD (free end extension).	Clinical performance	Clinical evaluation
21	3	Acrylic RPD (free end extension).	Clinical performance	Clinical evaluation

<b>Practical part</b>				
<b>Week</b>	<b>Hr</b>	<b>Laboratory subject</b>	<b>Learning method</b>	<b>Evaluation method</b>
22	3	Acrylic RPD (free end extension).	Clinical performance	Clinical evaluation
23	3	Acrylic RPD (free end extension).	Clinical performance	Clinical evaluation
24	3	Acrylic RPD (free end extension).	Clinical performance	Clinical evaluation
25	3	Acrylic RPD (free end extension).	Clinical performance	Clinical evaluation
26	3	Acrylic RPD (free end extension).	Clinical performance	Clinical evaluation
27	3	Acrylic RPD (free end extension).	Clinical performance	Clinical evaluation
28	3	Case repair.	Clinical performance	Clinical evaluation
29	3	Case repair.	Clinical performance	Clinical evaluation
30	3	Case repair.	Clinical performance	Clinical evaluation

### 11.Course Evaluation

Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc

### 12.Learning and Teaching Resources

Required textbooks (curricular books, if any)

- Carr and Brown. McCracken's Removable Partial Prosthodontics, 13<sup>th</sup> edition 2016 by Elsevier, Inc.
  - Zarb, Hobkirk, Eckert, Jacob et al. Prosthodontic treatment for edentulous patients: Complete dentures and implant-supported prostheses. 13<sup>th</sup> edition 2013 by Mosby, Elsevier Inc.
- Phoenix, Cagna, DeFreest. Stewart's Clinical Removable Partial Prosthodontics, 4<sup>th</sup> edition, 2008 Quintessence Publishing Co, Inc.

Main references (sources)	<ul style="list-style-type: none"> <li>• Golden and Driscoll. Treating the complete denture patient. 1<sup>st</sup> edition 2020 John Wiley &amp; Sons, Inc.</li> <li>• Rahn, Ivanhoe and Plummer. Textbook of complete dentures. 6<sup>th</sup> edition 2009 People's Medical Publishing House-USA.</li> <li>• Veeraiyan, Ramalingam, Bhat. Textbook of Prosthodontics. 1<sup>st</sup> edition 2003 Jaypee Brothers Medical Publishers (p) Ltd.</li> </ul> <p>Jones and Garcia. Removable Partial Dentures a clinician's guide. 1<sup>st</sup> edition, A John Wiley and Sons, Inc., Publication.</p>
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	<a href="https://classroom.google.com/u/1/c/NjY1MTIyNDM0OTQz">https://classroom.google.com/u/1/c/NjY1MTIyNDM0OTQz</a> <a href="https://uomosul.edu.iq/dentistry/%d8%99%88%d8%a7%d8%a8%d8%b7-%d8%aa%d8%b9%d9%84%d9%8a%d8%85%d9%8a%d8%a9">https://uomosul.edu.iq/dentistry/%d8%99%88%d8%a7%d8%a8%d8%b7-%d8%aa%d8%b9%d9%84%d9%8a%d8%85%d9%8a%d8%a9</a>
Percentage of course update	3%

Name and signature of the course administrator	Name and signature of Head of the Department
<b>Assist Prof Dr Ranaa Rabee</b>	<b>Lect Dr Inas Aziz Mohammed</b>

## Course Description - Fifth Year

### Course Description Form

<b>1. Course Name:</b>	
Periodontology	
<b>2. Course Code:</b>	
5261 PERI	
<b>3. Semester / Year:</b>	
Fifth year / 2025-2026	
<b>4. Description Preparation Date:</b>	
01 Dec 2025	
<b>5. Available Attendance Forms:</b>	
Theoretical and practical	
<b>6. Number of Credit Hours (Total) / Number of Units (Total)</b>	
Theoretical: 30 hours, practical: 90 hours. Total units: 5	
<b>7. Course administrator's name (mention all, if more than one name)</b>	
Name: Lecturer Dr Gayath Abdulbarry Al-Jawadi Email: <a href="mailto:ghayathaljawady@uomosul.edu.iq">ghayathaljawady@uomosul.edu.iq</a> Assist Prof Dr Huda Akram Salim <a href="mailto:hudaakram@uomosul.edu.iq">hudaakram@uomosul.edu.iq</a>	
<b>8. Course Objectives</b>	
<b>Course Objectives</b>	<ul style="list-style-type: none"><li>- Introduction to clinical periodontics.</li><li>- Study the aitiology of pocket formation and loss of attachment.</li><li>- Study the principle of root planning hand instruments, grasping and support.</li><li>- Study the principles of ultrasonic scaling and polishing.</li></ul>
<b>9. Teaching and Learning Strategies</b>	
<b>Strategy</b>	<ul style="list-style-type: none"><li>- Theory lectures and practical laboratories.</li><li>- Educational videos and utilization of smart boards.</li><li>- Use of educational models.</li><li>- Focused student group discussion.</li></ul>

## 10. Course Structure

### Theoretical Part

Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	1	Periodontal examination and diagnosis	Periodontal examination and diagnosis	Theory lectures	Theory exam
2	1	Bone loss and patterns of bone destruction	Bone loss	Theory lectures	Theory exam
3	1	Radiographic aids in the diagnosis of periodontal disease	Radiographic aids	Theory lectures	Theory exam
4	1	Periodontal response to external forces	Advanced diagnosis	Theory lectures	Theory exam
5	1	Tooth mobility	Periodontal response	Theory lectures	Theory exam
6	1	Epidemiology of periodontal diseases	Immunology	Theory lectures	Theory exam
7	1	Determination of prognosis	Immunology	Theory lectures	Theory exam
8	1	Interrelationships of periodontal disease and therapy with other dental disciplines	Tooth mobility	Theory lectures	Theory exam
9	1	Periodontal surgery. General	Epidemiology	Theory lectures	Theory exam
10	1	Sonic and ultrasonic instrumentation and irrigation	Determination of prognosis	Theory lectures	Theory exam
11	1	Gingivectomy and local excision	Interrelationships of periodontal disease and therapy	Theory lectures	Theory exam
12	1	Flap surgery	Periodontal surgery	Theory lectures	Theory exam
13	1	Mucogingival and aesthetic surgery	Sonic and ultrasonic instrumentation	Theory lectures	Theory exam
14	1	Furcation: involvement and treatment	Gingivectomy	Theory lectures	Theory exam

## 10. Course Structure

### Theoretical Part

Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
15	1	- Laser therapy	Flap surgery	Theory lectures	Theory exam
16	1	Locally delivered, controlled-release antimicrobials	Mucogingival and aesthetic surgery	Theory lectures	Theory exam
17	1	Dentin hypersensitivity	Furcation: involvement and treatment	Theory lectures	Theory exam
18	1	Tissue regeneration. General principles	Laser therapy	Theory lectures	Theory exam
19	1	Regenerative periodontal therapy	Locally delivered, controlled-release antimicrobials	Theory lectures	Theory exam
20	1	Reconstructive surgical techniques:	Management of medically compromised	Theory lectures	Theory exam
21	1	Advanced regenerative approaches	Management of medically compromised	Theory lectures	Theory exam
22	1	Oral implantology	Gingival crevicular fluid	Theory lectures	Theory exam
23	1	Oral implantology	Dentin hypersensitivity	Theory lectures	Theory exam
24	1	Oral implantology	Tissue regeneration	Theory lectures	Theory exam
25	1	Advanced diagnosis	Regenerative periodontal therapy	Theory lectures	Theory exam

## 10. Course Structure

### Theoretical Part

Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
26	1	Immunology	Reconstructive surgical techniques	Theory lectures	Theory exam
27	1	Management of medically compromised patients	Advanced regenerative approaches	Theory lectures	Theory exam
28	1	Gingival crevicular fluid	Oral implantology	Theory lectures	Theory exam
29	1	Oral implantology Implant-related complications and failure	Oral implantology	Theory lectures	Theory exam
30	1	Oral implantology Supportive implant treatment Rationale for supportive implant treatment	Oral implantology	Theory lectures	Theory exam

### Clinical part

4 h/week (120 h/year)

- Recording medical and dental history
- Patient's education and motivation
- Oral hygiene instructions (OHI)
- Recording periodontal indices:
  - Bleeding on probing (BOP)
  - Plaque index (% of plaque)
  - Probing pocket depth (PPD)
  - Clinical attachment loss (CAL)
- For periodontitis cases, determination of bone loss level by radiograph or clinically
- Diagnosis according to classification of periodontal disease and conditions (2017)
- Non-surgical periodontal therapy (manual/ultrasonic scaling, root planing) and removal of all plaque retentive factors
- Referral of cases that potentially requiring surgical therapy
- Maintenance and follow-up after 3 months

#### Requirements:

- Recording periodontal indices and diagnosis (min= 15)
  - Non-surgical periodontal treatment:
    - Scaling (min= 8)
    - Root planning (min= 3 teeth)
- Periodontal surgery assistant (one case optional)

**11.Course Evaluation**

Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc

**12.Learning and Teaching Resources**

Required textbooks (curricular books, if any)	Carranza’s clinical periodontology.
Main references (sources)	clinical periodontology and implant dentistry
Recommended books and references (scientific journals, reports...)	Periodontal diagnosis in the context of the 2017 classification system of periodontal diseases and conditions – implementation in clinical practice
Electronic References, Websites	
Percentage of course update	3%

Name and signature of the course administrator	Name and signature of Head of the Department
<b>Lect Dr Gayath Al-Jawadi</b>	<b>Assist Prof Dr Manar M Alnema</b>

## Course Description Form

<b>1. Course Name:</b>					
Preventive Dentistry					
<b>2. Course Code:</b>					
5262 PRVD					
<b>3. Semester / Year:</b>					
Fifth year / 2025-2026					
<b>4. Description Preparation Date:</b>					
01 Dec 2025					
<b>5. Available Attendance Forms:</b>					
Theoretical and practical					
<b>6. Number of Credit Hours (Total) / Number of Units (Total)</b>					
Theoretical: 30 hours, practical: 90 hours. Total units: 5					
<b>7. Course administrator's name (mention all, if more than one name)</b>					
Name: Prof Aisha Akram Qassim Email: dr.aisha6757@uomosul.edu.iq					
<b>8. Course Objectives</b>					
<b>Course Objectives</b>	<ul style="list-style-type: none"> <li>- Introduction to clinical preventive dentistry</li> <li>- Study the aitiology of dental caries.</li> <li>- Study the principle of caries prevention.</li> <li>- Study the principles of periodontal disease prevention.</li> </ul>				
<b>9. Teaching and Learning Strategies</b>					
<b>Strategy</b>	<ul style="list-style-type: none"> <li>- Theory lectures and practical laboratories.</li> <li>- Educational videos and utilization of smart boards.</li> <li>- Use of educational models.</li> <li>- Focused student group discussion.</li> </ul>				
<b>10. Course Structure</b>					
<b>Theoretical Part</b>					
<b>Week</b>	<b>Hr</b>	<b>Required Learning Outcomes</b>	<b>Unit or subject name</b>	<b>Learning method</b>	<b>Evaluation method</b>
1	1	Prevention of oral diseases (introduction)	Introduction	Theory lectures	Theory exam

## 10. Course Structure

### Theoretical Part

Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
		<ul style="list-style-type: none"> <li>• What is preventive dentistry?</li> <li>• prevention is better than a cure</li> <li>• Is preventive dentistry still needed?</li> <li>• Levels of prevention</li> </ul>			
2	1	Dental caries development <ul style="list-style-type: none"> <li>• Etiology of dental caries</li> <li>• Inorganic and organic components of tooth</li> <li>• Terminology of dental caries</li> </ul> Dynamics Process of De /Remineralization • The development of a carious lesion <ul style="list-style-type: none"> <li>• Root caries</li> <li>• Clinical appearance of root caries</li> </ul> Classification of root caries	Dental caries	Theory lectures	Theory exam
3	1	Diagnosis of dental caries <ul style="list-style-type: none"> <li>• Detection systems of caries</li> <li>• Visual and tactile examinations</li> <li>• Radiographic techniques</li> <li>• Electrical current measurement (electronic resistant method)</li> <li>• Fiber Optic Transillumination (FOTI and DiFOTI) (Enhanced visual techniques)</li> <li>• Fluorescent techniques</li> </ul> Other techniques like Dyes, Ultrasound techniques, Photo- thermal Radiometry (PTR).	Diagnosis of dental caries	Theory lectures	Theory exam
4	1	Fluoride in Dentistry <ul style="list-style-type: none"> <li>• Introduction</li> <li>• Fluoride in Environment</li> </ul> Fluoride Metabolism(Absorption, Distribution and Excretion of Fluoride in the Body).	Fluoride in Dentistry	Theory lectures	Theory exam
5	1	Fluorides in prevention and controlling dental caries	Fluorides in prevention	Theory lectures	Theory exam

## 10. Course Structure

### Theoretical Part

Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
		<ul style="list-style-type: none"> <li>• Mechanism of action</li> <li>• Fluoride's effect on tooth mineral Fluoride effect on plaque and bacterial metabolism</li> </ul>			
6	1	Topical fluoride therapy Professionally applied fluoride <ul style="list-style-type: none"> <li>• Introduction</li> <li>• Advantages and disadvantages of topical fluoride application</li> <li>• Fluoride Compounds</li> </ul> Classification of Professionally applied fluoride.	Topical fluoride therapy	Theory lectures	Theory exam
7	1	Topical fluoride therapy: Self-applied fluoride <ul style="list-style-type: none"> <li>• Requisites for self-applied fluoride agents</li> <li>• Fluoride dentifrices and Mechanism of Action Fluoride mouth rinses, Indications and Recommendations.</li> </ul>	Fluorides in prevention	Theory lectures	Theory exam
8	1	Safety and toxicity of fluoride <ul style="list-style-type: none"> <li>• Fluoride Toxicity</li> <li>• Factors influencing acute toxicity</li> <li>• Management of acute toxicity</li> <li>• Recommendations for parents</li> </ul> Chronic Toxicity( Dental fluorosis and bone fluorosis)	Safety and toxicity of fluoride	Theory lectures	Theory exam
9	1	Dental sealants <ul style="list-style-type: none"> <li>• definition</li> <li>• History</li> <li>• indication and contraindication</li> <li>• sealant in adult • Ideal sealants materials</li> <li>• Requisites for Sealant Retention</li> <li>• Sealant Placement Guidelines</li> <li>• Fluoride-Releasing Sealants</li> </ul>	Dental sealants	Theory lectures	Theory exam

## 10. Course Structure

### Theoretical Part

Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
		<ul style="list-style-type: none"> <li>• Glass ionomer sealants • Colored Versus Clear Sealants</li> <li>• Sealants for proximal enamel surfaces Sealing over caries lesions</li> </ul>			
10	1	New approach in restorative	New approach in restorative dentistry	Theory lectures	Theory exam
11	1	Microbiology of dental caries <ul style="list-style-type: none"> <li>• Microbial ecology in the oral cavity</li> <li>• Acquisition of the resident oral microflora</li> <li>• Site distribution of oral bacteria</li> <li>• Ecological factors affecting the growth and metabolism of oral bacteria</li> <li>• Dental biofilms: development, structure, composition and properties</li> <li>• Development of dental biofilms</li> <li>• Pellicle formation</li> <li>• Microbial colonization • Initial microbial colonization</li> <li>• Microbial succession</li> <li>• Microbial composition of the climax community (mature biofilm)</li> <li>• Virulence of microorganisms</li> <li>• Major dental caries associated bacteria Other caries-associated bacteria</li> </ul>	Microbiology of dental caries	Theory lectures	Theory exam
12	1	Saliva and host defense mechanism <ul style="list-style-type: none"> <li>Function of saliva</li> <li>• Composition of saliva</li> </ul>	Saliva	Theory lectures	Theory exam

## 10. Course Structure

### Theoretical Part

Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
		<ul style="list-style-type: none"> <li>• Salivary flow rate • Influence of saliva on dental caries</li> <li>• Oral immune system</li> <li>• Non-specific immune factors</li> <li>• Specific immune factors</li> <li>Immunization of dental caries</li> </ul>			
13	1	Caries risk assessment <ul style="list-style-type: none"> <li>• Goals of Caries Risk Assessment</li> <li>• Caries Disease Indicators</li> <li>• Caries Risk Factors</li> <li>• Caries Protective Factors</li> <li>• Factors in Low, Moderate and High Caries Cariogram</li> </ul>	Caries risk assessment	Theory lectures	Theory exam
14	1	Infection control <ul style="list-style-type: none"> <li>• Transmission of infection</li> <li>• Standard precautions</li> <li>• Components of infection control</li> <li>• Treatment room features</li> <li>• Single use disposable instruments</li> </ul> Biomedical waste management	infection control	Theory lectures	Theory exam
15	1	Oral hygiene measures (Mechanical) <ul style="list-style-type: none"> <li>• Acquired pellicle</li> <li>• Dental plaque</li> <li>• Dental calculus</li> <li>• Mechanical plaque control aids</li> <li>• Toothbrushes</li> <li>• Tooth brushing methods</li> <li>• Powered toothbrush</li> <li>• Objectives of tooth brushing</li> <li>• Interdental Cleaning aids</li> <li>• Dental floss</li> <li>• Wooden tips • Interdental brushes</li> <li>• Miswak</li> <li>• Oral irrigation devices</li> <li>- Gingival massage</li> </ul>	Oral hygiene measure	Theory lectures	Theory exam

## 10. Course Structure

### Theoretical Part

Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
16	1	Oral hygiene measures (Chemical) <ul style="list-style-type: none"> <li>• Ideal properties of chemical plaque control agents</li> <li>• Modes of action</li> <li>• Chlorhexidine</li> <li>• Triclosan</li> <li>• Essential oil mouthwashes or Listerine Enzymes</li> <li>• Sanguinarine extracts</li> <li>• Metal ions</li> <li>• Antibiotics                             <ul style="list-style-type: none"> <li>• Dentifrices Composition of dentifrices</li> </ul> </li> </ul>	Oral hygiene measures	Theory lectures	Theory exam
17	1	Diet and dental caries <ul style="list-style-type: none"> <li>• Role of carbohydrates in caries development</li> <li>• Evidences</li> <li>• Factors affecting food cariogenicity</li> <li>• Physical form of food and clearance time</li> <li>• Types of fermentable carbohydrate                             <ul style="list-style-type: none"> <li>• The basic Stephan curve</li> </ul> </li> <li>• Frequency of intake sugar and dental caries</li> </ul>	Diet and dental caries	Theory lectures	Theory exam
18	1	Non- sugar sweeteners <ul style="list-style-type: none"> <li>• The sweetness of sugars</li> <li>• Non- sugar sweeteners • Bulk sweeteners</li> <li>• Intense sweeteners</li> <li>• Protective factors in food</li> <li>• Fruit and dental caries Testing food cariogenicity</li> </ul>	Diet and dental caries	Theory lectures	Theory exam
19	1	Dietary counseling in dental practice	Diet and dental caries	Theory lectures	Theory exam

## 10. Course Structure

### Theoretical Part

Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
		<ul style="list-style-type: none"> <li>• Nutritional status assessment § Body Mass Index</li> <li>• Assessment of dietary intake• Objectives of dietary assessment</li> <li>• 24-hour recall</li> <li>• Dietary record</li> <li>• Food frequency questionnaires</li> <li>• Evaluation of cariogenic potential</li> <li>• Evaluation of nutritive value</li> <li>• Dietary counseling</li> <li>• Approach to counseling Motivation</li> </ul>			
20	1	Nutrition and dental health <ul style="list-style-type: none"> <li>• Nutrition dental caries • Systemic effect § Morphology of the teeth § The quality of the hard tissues</li> <li>• Quality of saliva</li> <li>• Evidences of the effect of some nutrients on dental caries Nutrition and eruption of teeth</li> </ul>	Diet and dental caries	Theory lectures	Theory exam
21	1	Prevention of periodontal disease and oral cancer by nutrition <ul style="list-style-type: none"> <li>• Nutrition and periodontal health</li> <li>• The mechanisms by which nutrition may affect periodontal disease</li> <li>• Effect of food texture on periodontal health</li> <li>• Nutrition and oral mucosal disease</li> <li>• Nutrition and oral cancer • Primary prevention Secondary prevention</li> </ul>	Prevention of periodontal disease	Theory lectures	Theory exam
22	1	Probiotics and dental health <ul style="list-style-type: none"> <li>• Caries-related mechanisms of probiotic activity</li> </ul>	Probiotics and dental health	Theory lectures	Theory exam

## 10. Course Structure

### Theoretical Part

Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
		<ul style="list-style-type: none"> <li>• Probiotics and counts of mutans streptococci</li> <li>• Probiotics and caries occurrence</li> </ul> Probiotics and periodontal health			
23	1	Diagnosis and prevention of dental erosion <ul style="list-style-type: none"> <li>• Prevalence</li> <li>• Early detection</li> <li>• Etiology</li> <li>• Protection against erosion</li> </ul> Prevention of erosion	Diagnosis and prevention of dental erosion	Theory lectures	Theory exam
24	1	Prevention of malocclusion <ul style="list-style-type: none"> <li>• Normal development</li> <li>• Etiology of malocclusion</li> <li>• Interceptive measures</li> <li>• Tooth anomalies Risk assessment</li> </ul>	Prevention of malocclusion	Theory lectures	Theory exam
25	1	Preventive measure for population with developmental disabilities <ul style="list-style-type: none"> <li>• Disability definition</li> <li>• Classification of disabling conditions               <ul style="list-style-type: none"> <li>• The issues regarding the delivery of care to people with disabilities</li> </ul> </li> <li>• Dental management and preventive measures among disabled individuals</li> <li>• The risk factors for dental caries among disabled individuals</li> <li>• People with physical (neurological) impairment               <ul style="list-style-type: none"> <li>• Visual Deficits</li> <li>• Hearing problems</li> <li>• Mentally retardation</li> </ul> </li> <li>• Specialized Equipment for disabled patient management</li> </ul> Dental care for Institutionalized disabled individual	Preventive measure for population with developmental disabilities	Theory lectures	Theory exam

## 10. Course Structure

### Theoretical Part

Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
26	1	Preventive treatment strategies for medically compromised populations <ul style="list-style-type: none"> <li>• Introduction</li> <li>• Eating disorders: Characteristics and preventive treatment strategies</li> <li>• Depression: Characteristics and preventive treatment strategies</li> <li>• Diabetes mellitus: Characteristics and preventive treatment strategies</li> <li>• Epilepsy: Characteristics and preventive treatment strategies</li> <li>Blood disorders: Characteristics and preventive treatment strategies</li> </ul>	Preventive treatment strategies for medically compromised populations	Theory lectures	Theory exam
27	1	Ozone in the prevention of dental diseases <ul style="list-style-type: none"> <li>• Definition and physical properties</li> <li>• Mode of action</li> <li>• Safety</li> <li>• Application of ozone in dentistry</li> <li>• Effects of ozone on oral microorganisms and oral cells</li> <li>• Ozone for disinfecting dentures</li> <li>• Ozone instruments designed for dentistry</li> <li>• Ozone in the management of incipient caries</li> <li>• Ozone in the management of open caries Treating root caries with ozone</li> </ul>	Ozone in the prevention of dental diseases	Theory lectures	Theory exam
28	1	Geriatric dentistry <ul style="list-style-type: none"> <li>• population characteristics</li> <li>• Physiologic Changes</li> <li>• Functional status</li> <li>• common oral manifestation</li> </ul>	Geriatric dentistry	Theory lectures	Theory exam

## 10. Course Structure

### Theoretical Part

Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
		<ul style="list-style-type: none"> <li>preventive measures long term care</li> </ul>			
29	1	Implant care <ul style="list-style-type: none"> <li>Dental implant parts</li> <li>Dental implant and biofilm</li> <li>Implant Maintenance</li> <li>Professional care in dental clinic</li> <li>Home care</li> </ul>	Implant care	Theory lectures	Theory exam
30	1	Protection of the dentition <ul style="list-style-type: none"> <li>Impact of dental trauma</li> <li>Types of traumatic dental injuries to teeth</li> <li>Sports dentistry</li> <li>Protective mouth-guards</li> <li>Evidence of effectiveness mouth-guards and oral &amp; systemic infections</li> </ul>	Protection of the dentition	Theory lectures	Theory exam

### Practical part

Week	Hr	Laboratory subject	Learning method	Evaluation method
1	3	Diagnosis and treatment planning	Seminar	Exams
2	3	Diagnosis and treatment planning	Seminar	Exams
3	3	Preliminary medical and dental history, Clinical examination , Radio graphic examination	Seminar	Exams
4	3	Preliminary medical and dental history, Clinical examination , Radio graphic examination	Seminar	Exams
5	3	Demonstration and use of Primary prevention program by removal of dental plaque and calculus and application of fluoride and fissure sealants	Seminar	Exams
6	3	Demonstration and use of Primary prevention program by removal of dental plaque and calculus and application of fluoride and fissure sealants	Seminar	Exams
7	3	Monitoring of developing dentition and recognition and prevention (through use of space maintainers) or interception of any occurrence of malocclusion	Seminar	Exams

<b>Practical part</b>				
<b>Week</b>	<b>Hr</b>	<b>Laboratory subject</b>	<b>Learning method</b>	<b>Evaluation method</b>
8	3	Monitoring of developing dentition and recognition and prevention (through use of space maintainers) or interception of any occurrence of malocclusion	Seminar	Exams
9	3	Caries removal and restoration of primary and young developing permanent dentition with variety of restorative materials	Seminar	Exams
10	3	Caries removal and restoration of primary and young developing permanent dentition with variety of restorative materials	Seminar	Exams
11	3	Trauma management in anterior teeth	Seminar	Exams
12	3	Trauma management in anterior teeth	Seminar	Exams
13	3	Minimal intervention dentistry by removal of dental decay and choice of suitable restorative material	Seminar	Exams
14	3	Minimal intervention dentistry by removal of dental decay and choice of suitable restorative material	Seminar	Exams
15	3	Pulp therapy for primary dentition	Seminar	Exams
16	3	Pulp therapy for primary dentition	Seminar	Exams
17	3	Management of simple cases of dental anomalies and other developmental defects	Seminar	Exams
18	3	Management of simple cases of dental anomalies and other developmental defects	Seminar	Exams
19	3	Maintenance of pulp vitality by use of regenerative materials and Root canal treatment for anterior non vital teeth	Seminar	Exams
20	3	Maintenance of pulp vitality by use of regenerative materials and Root canal treatment for anterior non vital teeth	Seminar	Exams
21	3	Extraction for non-restorable primary and permanent teeth or over- retained primary dentition and permanent teeth for space creation for orthodontic treatment	Seminar	Exams
22	3	Extraction for non-restorable primary and permanent teeth or over- retained primary dentition and permanent teeth for space creation for orthodontic treatment	Seminar	Exams
23	3	Management of molar incisor hypomineralization MIH	Seminar	Exams
24	3	Behavior management for young patients	Seminar	Exams

<b>Practical part</b>				
<b>Week</b>	<b>Hr</b>	<b>Laboratory subject</b>	<b>Learning method</b>	<b>Evaluation method</b>
25	3	Behavior management for young patients	Seminar	Exams
26	3	Infection control re-assurance and guidance of students	Seminar	Exams
27	3	Infection control re-assurance and guidance of students	Seminar	Exams
28	3	Tooth colored restoration technique	Seminar	Exams
29	3	Tooth colored restoration technique	Seminar	Exams
30	3	Radiographic prescription and interpretation of results	Seminar	Exams

### **11.Course Evaluation**

Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc

### **12.Learning and Teaching Resources**

Required textbooks (curricular books, if any)	Primary Preventive Dentistry by Harris NO Garcia-Godoy F-Nathe CN 8th Ed (2014 ). Comprehensive preventive dentistry (2012) Edited by Hardy Limeback.
Main references (sources)	The Prevention of Oral Disease, Fourth Edition. J. J. Murray (2003).
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	
Percentage of course update	3%

Name and signature of the course administrator	Name and signature of Head of the Department
<b>Prof Aisha Akram Qassim</b>	<b>Assist Prof Dr Sarmad Al-Qassar</b>

## Course Description Form

<b>1. Course Name:</b>	
Oral Surgery	
<b>2. Course Code:</b>	
5263 OSUR	
<b>3. Semester / Year:</b>	
Fifth year / 2025-2026	
<b>4. Description Preparation Date:</b>	
01 Dec 2025	
<b>5. Available Attendance Forms:</b>	
Theoretical and practical	
<b>6. Number of Credit Hours (Total) / Number of Units (Total)</b>	
Theoretical: 30 hours, practical: 180 hours. Total units: 8	
<b>7. Course administrator's name (mention all, if more than one name)</b>	
Name: Lecturer Israa Anwar Abdulhameed Email: <a href="mailto:israaallahassaf@uomosul.edu.iq">israaallahassaf@uomosul.edu.iq</a>	
<b>8. Course Objectives</b>	
<b>Course Objectives</b>	<ul style="list-style-type: none"> <li>- Introduction to clinical oral surgery</li> <li>- Study the advanced minor oral surgery operation.</li> <li>- Study the principle of impact tooth extraction.</li> <li>- Study the bone fracture (skull, maxilla, mandible ... etc).</li> </ul>
<b>9. Teaching and Learning Strategies</b>	
<b>Strategy</b>	<ul style="list-style-type: none"> <li>- Theory lectures and practical laboratories.</li> <li>- Educational videos and utilization of smart boards.</li> <li>- Use of educational models.</li> <li>- Focused student group discussion.</li> </ul>

## 10. Course Structure

### Theoretical Part

Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	1	Orofacial pain	Orofacial pain	Theory lectures	Theory exam
2	1	Preliminary management of patients with facial fractures	Preliminary management of patients with facial fractures	Theory lectures	Theory exam
3	1	Bleeding Fractures of the mandible	Bleeding Fractures of the mandible	Theory lectures	Theory exam
4	1	Fractures of the mandible	Fractures of the mandible	Theory lectures	Theory exam
5	1	Pulmonary Fractures of the middle third of facial skeleton	Pulmonary Fractures of the middle third of facial skeleton	Theory lectures	Theory exam
6	1	Fractures of the middle third of facial skeleton	Fractures of the middle third of facial skeleton	Theory lectures	Theory exam
7	1	Dentoalveolar and soft tissue injuries	Dentoalveolar and soft tissue injuries	Theory lectures	Theory exam
8	1	Preprosthetic surgery	Preprosthetic surgery	Theory lectures	Theory exam

## 10. Course Structure

### Theoretical Part

Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
9	1	Preprosthetic surgery	Preprosthetic surgery	Theory lectures	Theory exam
10	1	Potentially malignant disorders of the oral mucosa	Potentially malignant disorders of the oral mucosa	Theory lectures	Theory exam
11	1	Odontogenic diseases of the maxillary sinu	Odontogenic diseases of the maxillary sinu	Theory lectures	Theory exam
12	1	Benign cystic lesions of the oral cavity	Benign cystic lesions of the oral cavity	Theory lectures	Theory exam
13	1	Odontogenic tumors	Odontogenic tumors	Theory lectures	Theory exam
14	1	Non-odontogenic tumors and fibro-osseous lesions	Non-odontogenic tumors and fibro-osseous lesions	Theory lectures	Theory exam
15	1	- of the jaw	of the jaw	Theory lectures	Theory exam
16	1	Oral cancer	Oral cancer	Theory lectures	Theory exam
17	1	Implant Treatment: Advanced Concepts	Implant Treatment: Advanced Concepts	Theory lectures	Theory exam

## 10. Course Structure

### Theoretical Part

Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
18	1	Implant Treatment: Advanced Concepts	Implant Treatment: Advanced Concepts	Theory lectures	Theory exam
19	1	Salivary gland diseases	Salivary gland diseases	Theory lectures	Theory exam
20	1	Salivary gland diseases	Salivary gland diseases	Theory lectures	Theory exam
21	1	Temporomandibular joint (TMJ) disorders	Temporomandibular joint (TMJ) disorders	Theory lectures	Theory exam
22	1	Surgical aids to Temporomandibular joint (TMJ) disorders	Surgical aids to Temporomandibular joint (TMJ) disorders	Theory lectures	Theory exam
23	1	Orthognathic surgery	Orthognathic surgery	Theory lectures	Theory exam
24	1	Orthognathic surgery	Orthognathic surgery	Theory lectures	Theory exam
25	1	Cleft lip and palate •	Cleft lip and palate	Theory lectures	Theory exam
26	1	Cleft lip and palate	Cleft lip and palate	Theory lectures	Theory exam

## 10. Course Structure

### Theoretical Part

Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
27	1	Laser and Cryosurgery in oral and maxillofacial surgery	Laser and Cryosurgery in oral and maxillofacial surgery	Theory lectures	Theory exam
28	1	Vascular anomalies	Vascular anomalies	Theory lectures	Theory exam
29	1	Principles of reconstructive surgery of defects of the jaws	Principles of reconstructive surgery of defects of the jaws	Theory lectures	Theory exam
30	1	Principles of reconstructive surgery of defects of the jaws	Principles of reconstructive surgery of defects of the jaws	Theory lectures	Theory exam

### Practical part

Clinical requirements (6 hours/ week - 180 hours/ year)

- Extraction of teeth (simple extraction)
- Surgical extraction of teeth
- Surgical assistant in minor oral surgery and dental implants.
- Participating in oral and maxillofacial surgery ward rounds

<b>11.Course Evaluation</b>	
Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc	
<b>12.Learning and Teaching Resources</b>	
Required textbooks (curricular books, if any)	1. Contemporary oral and maxillofacial surgery 7th edition 2019 (Elsevier ( . 2. Perry M, Brown A, Banks P (2015). Fractures of The Facial Skeleton, second edition. Wiley Blackwell.
Main references (sources)	
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	
Percentage of course update	3%

Name and signature of the course administrator	Name and signature of Head of the Department
<b>Lect Israa Anwar Abdulhameed</b>	<b>Assist Prof Dr Manar M Alnema</b>

## Course Description Form

<b>1. Course Name:</b>
Prosthodontics
<b>2. Course Code:</b>
5264 PROS
<b>3. Semester / Year:</b>
Fifth year / 2025-2026
<b>4. Description Preparation Date:</b>
01 Dec 2025
<b>5. Available Attendance Forms:</b>
Theoretical and practical
<b>6. Number of Credit Hours (Total) / Number of Units (Total)</b>
Theoretical: 30 hours, practical: 180 hours. Total units: 8
<b>7. Course administrator's name (mention all, if more than one name)</b>
Name: Assist.prof.Dr Aliaa Wameedh Ramzi <a href="mailto:aliaa2005@uomosul.edu.iq">aliaa2005@uomosul.edu.iq</a> Prof.Dr. Ahmed Asim Saeed <a href="mailto:ahmadas2017@uomosul.edu.iq">ahmadas2017@uomosul.edu.iq</a> Prof. Dr. Nada Zuhair Mohammed <a href="mailto:nada2005@uomosul.edu.iq">nada2005@uomosul.edu.iq</a> Asst.Prof.Dr. Ammar Khalid Jamaluddin <a href="mailto:ammar2017@uomosul.edu.iq">ammar2017@uomosul.edu.iq</a> Assist.prof.Dr Mohammed Mouayed Sadoon <a href="mailto:mohammedms2005@uomosul.edu.iq">mohammedms2005@uomosul.edu.iq</a> Asst. Prof. Dr. Abdullah Jasim Mohammed <a href="mailto:AbdoAlla2009@uomosul.edu.iq">AbdoAlla2009@uomosul.edu.iq</a> Lecturer Munia Mohammed Nabil Mandoh <a href="mailto:munia2012@uomosul.edu.iq">munia2012@uomosul.edu.iq</a> Lecturer Dr.Ihssan Faris SaadAllah <a href="mailto:ihsan2011@uomosul.edu.iq">ihsan2011@uomosul.edu.iq</a> Omar Abdul Mohsin Sheet <a href="mailto:Omaras2006@uomosul.edu.iq">Omaras2006@uomosul.edu.iq</a> AsmaaAbdulSalam AbdulKader <a href="mailto:asmaa2006@uomosul.edu.iq">asmaa2006@uomosul.edu.iq</a> Lecturer.Ahmed isam Alkhyeat <a href="mailto:Ahmadik2013@uomosul.edu.iq">Ahmadik2013@uomosul.edu.iq</a> Lect. Marwah M Shehab <a href="mailto:marwa2008@uomosul.edu.iq">marwa2008@uomosul.edu.iq</a> Lect. Alaa N. Mohammed <a href="mailto:alaa2009@uomosul.edu.iq">alaa2009@uomosul.edu.iq</a> Lect. Hala khuder Ali <a href="mailto:halaka2008@uomosul.edu.iq">halaka2008@uomosul.edu.iq</a> Lecturer. Hamzah Salim Shaker <a href="mailto:hamza2011@uomosul.edu.iq">hamza2011@uomosul.edu.iq</a> Asst.lecurer safwan mohsen Khalil <a href="mailto:safwan2007@uomosul.edu.iq">safwan2007@uomosul.edu.iq</a> Assistant lecturer. Musaab Mohammed Ibrahim <a href="mailto:mosaab2017@uomosul.edu.iq">mosaab2017@uomosul.edu.iq</a> Asst.lecturer Wasan Adel Mohammed Sheet <a href="mailto:wasan.adel@uomosul.edu.iq">wasan.adel@uomosul.edu.iq</a> Asst.lecurer Israa Ezzulddin Hussein <a href="mailto:israaizzidin@uomosul.edu.iq">israaizzidin@uomosul.edu.iq</a> Asst.Lect. Nooralhuda Waadullah Hasan <a href="mailto:nooralhudaw.altace@uomosul.edu.iq">nooralhudaw.altace@uomosul.edu.iq</a>

## 8. Course Objectives

<b>Course Objectives</b>	<ul style="list-style-type: none"> <li>- Enabling students to understand the components of prosthetic dentistry.</li> <li>- Explaining to students the types of treatments that can be provided to patients through prosthetic dentistry.</li> <li>- Training students practically on various procedures that can be applied in treating different clinical problems.</li> <li>- Providing comprehensive details about the materials used in prosthetic dentistry, including material types and different techniques.</li> <li>- Offering guidance on medical conditions that may arise in patients and could interfere with dental treatments or require medical consultations.</li> <li>- Equipping students with prosthetic treatment skills.</li> <li>- Initiating treatment in a scientifically correct manner and using modern materials and techniques in the fabrication of partial and complete dentures through theoretical lectures combined with clinical practice.</li> </ul>
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## 9. Teaching and Learning Strategies

<b>Strategy</b>	<ul style="list-style-type: none"> <li>- Theory lectures and practical laboratories.</li> <li>- Educational videos and utilization of smart boards.</li> <li>- Use of educational models.</li> <li>- Focused student group discussion.</li> </ul>
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## 10. Course Structure

### Theoretical Part

Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	1	Occlusion in Complete Denture	Occlusion in Complete Denture	Theory lectures	Theory exam
2	1	Occlusion in Complete Denture (Continue)	Occlusion in Complete Denture	Theory lectures	Theory exam

## 10. Course Structure

### Theoretical Part

Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
3	1	Retention, Stability And Support	Retention, Stability and Support	Theory lectures	Theory exam
4	1	Retention, Stability And Support (Continue) ○	Retention, Stability and Support	Theory lectures	Theory exam
5	1	Complications Of Complete Denture	Post Insertion Problems	Theory lectures	Theory exam
6	1	Complications Of Complete Denture (continue)	Post Insertion Problems	Theory lectures	Theory exam
7	1	Immediate Denture ▪	Complications Of Complete Denture	Theory lectures	Theory exam
8	1	Immediate Denture (Continue)	Complications Of Complete Denture	Theory lectures	Theory exam
9	1	Classification system for completely edentulous patients	Immediate Denture	Theory lectures	Theory exam
10	1	Classification system for completely edentulous patients (Continue)	Immediate Denture	Theory lectures	Theory exam
11	1	Posterior palatal seal area ▪	Classification system for completely edentulous patients	Theory lectures	Theory exam
12	1	Single CD	Classification system for completely edentulous patients	Theory lectures	Theory exam
13	1	Single CD (Continue)	Posterior palatal seal area	Theory lectures	Theory exam

## 10. Course Structure

### Theoretical Part

Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
14	1	Geriatric dentistry	Single CD	Theory lectures	Theory exam
15	1	- Post insertion problems	Single CD	Theory lectures	Theory exam
16	1	▪ Post insertion problems (continue)	Maxillofacial Prosthesis	Theory lectures	Theory exam
17	1	Maxillofacial prosthesis	Maxillofacial Prosthesis	Theory lectures	Theory exam
18	1	Maxillofacial prosthesis (Continue)	Residual Ridge resorption	Theory lectures	Theory exam
19	1	Residual Ridge resorption	Residual Ridge resorption	Theory lectures	Theory exam
20	1	Residual Ridge resorption (Continue)	Dental implantology	Theory lectures	Theory exam
21	1	Dental implantology	Dental implantology	Theory lectures	Theory exam
22	1	Dental implantology (Continue)	Esthetics in CD	Theory lectures	Theory exam
23	1	Esthetics in CD	Characteristics Of Ideal Materials For Dental Implant	Theory lectures	Theory exam
24	1	Characteristics Of Ideal Materials For Dental Implant	Characteristics Of Ideal Materials For Dental Implant	Theory lectures	Theory exam
25	1	Copy denture	Copy denture	Theory lectures	Theory exam
26	1	Over Denture	Over Denture	Theory lectures	Theory exam
27	1	Over Denture (Continue)	Over Denture	Theory lectures	Theory exam
28	1	Neutral zone technique in complete denture	Neutral zone in CD	Theory lectures	Theory exam

## 10. Course Structure

### Theoretical Part

Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
29	1	<ul style="list-style-type: none"><li>• Attachments in over denture</li></ul>	Attachments in over denture	Theory lectures	Theory exam
30	1	Attachments in over denture (Continue)	Attachments in over denture	Theory lectures	Theory exam

### Practical part

Week	Hr	Laboratory subject	Learning method	Evaluation method
1	6	Case of upper and lower complete denture/diagnosis	Clinical performance	Clinical evaluation
2	6	Primary impression	Clinical performance	Clinical evaluation
3	6	Final impression	Clinical performance	Clinical evaluation
4	6	Centric relation record	Clinical performance	Clinical evaluation
5	6	Try in	Clinical performance	Clinical evaluation
6	6	Insertion	Clinical performance	Clinical evaluation
7	6	Adjustment	Clinical performance	Clinical evaluation
8	6	Single complete denture against partial denture or natural teeth./diagnosis	Clinical performance	Clinical evaluation
9	6	Primary impression	Clinical performance	Clinical evaluation
10	6	Final impression	Clinical performance	Clinical evaluation
11	6	Centric relation record	Clinical performance	Clinical evaluation
12	6	Try in	Clinical performance	Clinical evaluation
13	6	Insertion	Clinical performance	Clinical evaluation

<b>Practical part</b>				
<b>Week</b>	<b>Hr</b>	<b>Laboratory subject</b>	<b>Learning method</b>	<b>Evaluation method</b>
14	6	Adjustment	Clinical performance	Clinical evaluation
15	6	Free end partial denture.	Clinical performance	Clinical evaluation
16	6	Primary impression	Clinical performance	Clinical evaluation
17	6	Final impression	Clinical performance	Clinical evaluation
18	6	Centric relation record	Clinical performance	Clinical evaluation
19	6	Try in	Clinical performance	Clinical evaluation
20	6	Insertion	Clinical performance	Clinical evaluation
21	6	Adjustment	Clinical performance	Clinical evaluation
22	6	Immediate or flexible RPD	Clinical performance	Clinical evaluation
23	6	Primary impression	Clinical performance	Clinical evaluation
24	6	Final impression	Clinical performance	Clinical evaluation
25	6	Centric relation record	Clinical performance	Clinical evaluation
26	6	Try in	Clinical performance	Clinical evaluation
27	6	Insertion	Clinical performance	Clinical evaluation
28	6	Adjustment	Clinical performance	Clinical evaluation
29	6	Relining	Clinical performance	Clinical evaluation
30	6	Rebasing	Clinical performance	Clinical evaluation

<b>11.Course Evaluation</b>	
Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc	
<b>12.Learning and Teaching Resources</b>	
Required textbooks (curricular books, if any)	Zarb, Hobkirk, Eckert, Jacob et al. Prosthodontic treatment for edentulous patients: Complete dentures and implant-supported prostheses.13th edition 2013 by Mosby, Elsevier Inc.
Main references (sources)	Golden and Driscoll. Treating the complete denture patient. 1st edition 2020 John Wiley & Sons, Inc. Rahn, Ivanhoe and Plummer. Textbook of complete dentures.6th edition 2009 People's
Recommended books and references (scientific journals, reports...)	Prosthodontics journal. Dental materials journal
Electronic References, Websites	
Percentage of course update	3%

Name and signature of the course administrator	Name and signature of Head of the Department
<b>Assist Prof Dr Aliaa Wameedh</b>	<b>Lect Dr Inas Aziz Mohammed</b>

## Course Description Form

<b>1. Course Name:</b>	
Clinical Endodontics and Clinical Fixed Prosthodontics	
<b>2. Course Code:</b>	
5265 CECP	
<b>3. Semester / Year:</b>	
Fifth year / 2025-2026	
<b>4. Description Preparation Date:</b>	
01 Dec 2025	
<b>5. Available Attendance Forms:</b>	
Theoretical and practical	
<b>6. Number of Credit Hours (Total) / Number of Units (Total)</b>	
Theoretical: 30 hours, practical: 180 hours. Total units: 8	
<b>7. Course administrator's name (mention all, if more than one name)</b>	
Name: Lect Alaa Hussin Ali Email: dr.alaahussin@uomosul.edu.iq	
<b>8. Course Objectives</b>	
<b>Course Objectives</b>	<ul style="list-style-type: none"> <li>• Enable students to understand the differential diagnosis of pulp and periapical diseases using advanced clinical and radiological criteria.</li> <li>• Master the biomechanical and biological principles for disinfecting and preparing root canals using modern techniques to ensure the elimination of microbial infection.</li> <li>• Develop clinical skills in performing three-dimensional root canal obturation to ensure hermetic sealing and prevent bacterial leakage.</li> <li>• Equip students with the ability to manage emergency cases and handle complex pulp complications in a systematic scientific manner.</li> <li>• Study the biomechanical principles for preparing teeth to receive crowns and bridges of various types.</li> <li>- Study traditional and digital impression techniques in addition to causes of failure in fixed prostheses and understand the final bonding protocols and occlusion adjustment.</li> </ul>

## 9. Teaching and Learning Strategies

<b>Strategy</b>	<ul style="list-style-type: none"> <li>- Utilize interactive presentations and multimedia resources, including images and videos, to clarify complex theoretical aspects in restorative, endodontics and fixed prosthodontics.</li> <li>- Provide direct clinical supervision to students in educational clinics for root canal treatments and cosmetic restorations (Composite) to ensure clinical execution accuracy.</li> <li>- Adopt a seminar-based methodology and scientific reports to enhance students' ability to analyze modern research and connect it to clinical practice.</li> <li>- Promote self-directed learning by providing students with curriculum resources and lectures through the official electronic platforms of the college.</li> </ul>
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## 10. Course Structure

<b>Theoretical Part</b>					
<b>Week</b>	<b>Hr</b>	<b>Required Learning Outcomes</b>	<b>Unit or subject name</b>	<b>Learning method</b>	<b>Evaluation method</b>
1	1	Endodontic diagnosis	Clinical Endodontics	Theory lectures	Theory exam
2	1	Pain control in Endodontics	Clinical Endodontics	Theory lectures	Theory exam
3	1	Endodontic radiography	Clinical Endodontics	Theory lectures	Theory exam
4	1	Working length Determination	Clinical Endodontics	Theory lectures	Theory exam
5	1	Microbiology	Clinical Endodontics	Theory lectures	Theory exam
6	1	Microbiology	Clinical Endodontics	Theory lectures	Theory exam
7	1	Intracanal instruments	Clinical Endodontics	Theory lectures	Theory exam
8	1	Intracanal instruments	Clinical Endodontics	Theory lectures	Theory exam
9	1	Obturation of the root canal system	Clinical Endodontics	Theory lectures	Theory exam

## 10. Course Structure

### Theoretical Part

Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
10	1	Obturation of the root canal system	Clinical Endodontics	Theory lectures	Theory exam
11	1	Endodontic Emergency Treatment	Clinical Endodontics	Theory lectures	Theory exam
12	1	Restoration of Endodontically Treated Teeth	Clinical Endodontics	Theory lectures	Theory exam
13	1	Endodontic-Periodontal Relations	Clinical Endodontics	Theory lectures	Theory exam
14	1	Tooth discoloration and bleaching.	Clinical Endodontics	Theory lectures	Theory exam
15	1	Tooth discoloration and bleaching.	Clinical Endodontics	Theory lectures	Theory exam
16	1	Terminology, definition of fixed partial denture , Effect of Tooth Loss, Comparism with R.P.D	Fixed Prosthodontics	Theory lectures	Theory exam
17	1	Types of Fixed Bridge including Basic Bridge Design	Fixed Prosthodontics	Theory lectures	Theory exam
18	1	Components of Fixed Bridge; Retainers	Fixed Prosthodontics	Theory lectures	Theory exam
19	1	Components of Fixed Bridge; Pontics Connectors.	Fixed Prosthodontics	Theory lectures	Theory exam
20	1	Clinical Consideration for Bridge Construction.- _ Abutment Tooth(evaluation and selection) _ Crown/Root Ratio. _ Splinting of teeth. _ Patient Occlusal Status. _ General Factors.	Fixed Prosthodontics	Theory lectures	Theory exam
21	1	Clinical Situations affecting Bridge Design; (Post. Tilted Abutments, Span Length, Pier Abut., Arch	Fixed Prosthodontics	Theory lectures	Theory exam
22	1	Resin bonded bridge	Fixed Prosthodontics	Theory lectures	Theory exam

## 10. Course Structure

### Theoretical Part

Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
23	1	Diagnosis And Treatment Plan. Intra-oral Examination. X-Rays Examination. Diagnostic Cast Examination.	Fixed Prosthodontics	Theory lectures	Theory exam
24	1	Gingival retraction and impression(techniques)and impression disinfection	Fixed Prosthodontics	Theory lectures	Theory exam
25	1	provisional Restoration , Oclusion and Aesthetics (Principles of occlusion occlusal plane, Anterior guidance) Bite Registration, and Articulation	Fixed Prosthodontics	Theory lectures	Theory exam
26	1	provisional Restoration , Oclusion and Aesthetics (Principles of occlusion occlusal plane, Anterior guidance) Bite Registration, and Articulation	Fixed Prosthodontics	Theory lectures	Theory exam
27	1	Try-in and Shade Selection ( Colour dimensions Hue,Chroma,and Value).	Fixed Prosthodontics	Theory lectures	Theory exam
28	1	Final Cementation of F.P.Ds.( Techniques)	Fixed Prosthodontics	Theory lectures	Theory exam
29	1	Failure in Fixed Prosthodontics.	Fixed Prosthodontics	Theory lectures	Theory exam
30	1	Porcelain in Fixed Prosthodontics (Current Ceramic ).	Fixed Prosthodontics	Theory lectures	Theory exam

### Practical part

Week	Hr	Laboratory subject	Learning method	Evaluation method
1	6	<ul style="list-style-type: none"> <li>▪ Class II, III, IV, V composite restorations</li> <li>▪ Endodontic treatment of anterior teeth and premolars</li> </ul> Seminar	Clinical performance	Clinical evaluation
2	6	<ul style="list-style-type: none"> <li>▪ Class II, III, IV, V composite restorations</li> </ul>	Clinical performance	Clinical evaluation

<b>Practical part</b>				
<b>Week</b>	<b>Hr</b>	<b>Laboratory subject</b>	<b>Learning method</b>	<b>Evaluation method</b>
		<ul style="list-style-type: none"> <li>▪ Endodontic treatment of anterior teeth and premolars</li> </ul> Seminar		
3	6	<ul style="list-style-type: none"> <li>▪ Class II, III, IV, V composite restorations</li> <li>▪ Endodontic treatment of anterior teeth and premolars</li> </ul> Seminar	Clinical performance	Clinical evaluation
4	6	<ul style="list-style-type: none"> <li>▪ Class II, III, IV, V composite restorations</li> <li>▪ Endodontic treatment of anterior teeth and premolars</li> </ul> Seminar	Clinical performance	Clinical evaluation
5	6	<ul style="list-style-type: none"> <li>▪ Class II, III, IV, V composite restorations</li> <li>▪ Endodontic treatment of anterior teeth and premolars</li> </ul> Seminar	Clinical performance	Clinical evaluation
6	6	<ul style="list-style-type: none"> <li>▪ Class II, III, IV, V composite restorations</li> <li>▪ Endodontic treatment of anterior teeth and premolars</li> </ul> Seminar	Clinical performance	Clinical evaluation
7	6	<ul style="list-style-type: none"> <li>▪ Class II, III, IV, V composite restorations</li> <li>▪ Endodontic treatment of anterior teeth and premolars</li> </ul> Seminar	Clinical performance	Clinical evaluation
8	6	<ul style="list-style-type: none"> <li>▪ Class II, III, IV, V composite restorations</li> <li>▪ Endodontic treatment of anterior teeth and premolars</li> </ul> Seminar	Clinical performance	Clinical evaluation
9	6	<ul style="list-style-type: none"> <li>▪ Class II, III, IV, V composite restorations</li> <li>▪ Endodontic treatment of anterior teeth and premolars</li> </ul> Seminar	Clinical performance	Clinical evaluation
10	6	<ul style="list-style-type: none"> <li>▪ Class II, III, IV, V composite restorations</li> <li>▪ Endodontic treatment of anterior teeth and premolars</li> </ul> Seminar	Clinical performance	Clinical evaluation
11	6	<ul style="list-style-type: none"> <li>▪ Class II, III, IV, V composite restorations</li> <li>▪ Endodontic treatment of anterior teeth and premolars</li> </ul> Seminar	Clinical performance	Clinical evaluation
12	6	<ul style="list-style-type: none"> <li>▪ Class II, III, IV, V composite restorations</li> <li>▪ Endodontic treatment of anterior teeth and premolars</li> </ul> Seminar	Clinical performance	Clinical evaluation

<b>Practical part</b>				
<b>Week</b>	<b>Hr</b>	<b>Laboratory subject</b>	<b>Learning method</b>	<b>Evaluation method</b>
		Seminar		
13	6	<ul style="list-style-type: none"> <li>▪ Class II, III, IV, V composite restorations</li> <li>▪ Endodontic treatment of anterior teeth and premolars</li> </ul> Seminar	Clinical performance	Clinical evaluation
14	6	<ul style="list-style-type: none"> <li>▪ Class II, III, IV, V composite restorations</li> <li>▪ Endodontic treatment of anterior teeth and premolars</li> </ul> Seminar	Clinical performance	Clinical evaluation
15	6	<ul style="list-style-type: none"> <li>▪ Class II, III, IV, V composite restorations</li> <li>▪ Endodontic treatment of anterior teeth and premolars</li> </ul> Seminar	Clinical performance	Clinical evaluation
16	6	<ul style="list-style-type: none"> <li>▪ Class II, III, IV, V composite restorations</li> <li>▪ Endodontic treatment of anterior teeth and premolars</li> </ul> Seminar	Clinical performance	Clinical evaluation
17	6	<ul style="list-style-type: none"> <li>▪ Class II, III, IV, V composite restorations</li> <li>▪ Endodontic treatment of anterior teeth and premolars</li> </ul> Seminar	Clinical performance	Clinical evaluation
18	6	<ul style="list-style-type: none"> <li>▪ Class II, III, IV, V composite restorations</li> <li>▪ Endodontic treatment of anterior teeth and premolars</li> </ul> Seminar	Clinical performance	Clinical evaluation
19	6	<ul style="list-style-type: none"> <li>▪ Class II, III, IV, V composite restorations</li> <li>▪ Endodontic treatment of anterior teeth and premolars</li> </ul> Seminar	Clinical performance	Clinical evaluation
20	6	<ul style="list-style-type: none"> <li>▪ Class II, III, IV, V composite restorations</li> <li>▪ Endodontic treatment of anterior teeth and premolars</li> </ul> Seminar	Clinical performance	Clinical evaluation
21	6	<ul style="list-style-type: none"> <li>▪ Class II, III, IV, V composite restorations</li> <li>▪ Endodontic treatment of anterior teeth and premolars</li> </ul> Seminar	Clinical performance	Clinical evaluation
22	6	<ul style="list-style-type: none"> <li>▪ Class II, III, IV, V composite restorations</li> <li>▪ Endodontic treatment of anterior teeth and premolars</li> </ul> Seminar	Clinical performance	Clinical evaluation

<b>Practical part</b>				
<b>Week</b>	<b>Hr</b>	<b>Laboratory subject</b>	<b>Learning method</b>	<b>Evaluation method</b>
23	6	<ul style="list-style-type: none"> <li>▪ Class II, III, IV, V composite restorations</li> <li>▪ Endodontic treatment of anterior teeth and premolars</li> </ul> Seminar	Clinical performance	Clinical evaluation
24	6	<ul style="list-style-type: none"> <li>▪ Class II, III, IV, V composite restorations</li> <li>▪ Endodontic treatment of anterior teeth and premolars</li> </ul> Seminar	Clinical performance	Clinical evaluation
25	6	<ul style="list-style-type: none"> <li>▪ Class II, III, IV, V composite restorations</li> <li>▪ Endodontic treatment of anterior teeth and premolars</li> </ul> Seminar	Clinical performance	Clinical evaluation
26	6	<ul style="list-style-type: none"> <li>▪ Class II, III, IV, V composite restorations</li> <li>▪ Endodontic treatment of anterior teeth and premolars</li> </ul> Seminar	Clinical performance	Clinical evaluation
27	6	<ul style="list-style-type: none"> <li>▪ Class II, III, IV, V composite restorations</li> <li>▪ Endodontic treatment of anterior teeth and premolars</li> </ul> Seminar	Clinical performance	Clinical evaluation
28	6	<ul style="list-style-type: none"> <li>▪ Class II, III, IV, V composite restorations</li> <li>▪ Endodontic treatment of anterior teeth and premolars</li> </ul> Seminar	Clinical performance	Clinical evaluation
29	6	<ul style="list-style-type: none"> <li>▪ Class II, III, IV, V composite restorations</li> <li>▪ Endodontic treatment of anterior teeth and premolars</li> </ul> Seminar	Clinical performance	Clinical evaluation
30	6	<ul style="list-style-type: none"> <li>▪ Class II, III, IV, V composite restorations</li> <li>▪ Endodontic treatment of anterior teeth and premolars</li> </ul> Seminar	Clinical performance	Clinical evaluation

<b>11.Course Evaluation</b>	
Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc	
<b>12.Learning and Teaching Resources</b>	
Required textbooks (curricular books, if any)	Cohen’s Pathways of the Dental Pulp. 12th ed. Louis H. Berman and Kenneth M. Hargreaves. Fundamentals of Fixed Prosthodontics, 2012, Quintessence Pub. SHILLINGBURG, H. T. & SATHER, D. A. 2- Contemporary Fixed Prosthodontics, 2016 Elsevier. ROSENSTIEL, S. F., LAND, M. F. & FUJIMOTO, J.
Main references (sources)	
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	
Percentage of course update	3%

Name and signature of the course administrator	Name and signature of Head of the Department
<b>Lect Alaa Hussin Ali</b>	<b>Assist Prof Dr Alaa Idrees Dawood</b>

## Course Description Form

<b>1. Course Name:</b>	
Orthodontics	
<b>2. Course Code:</b>	
5266 ORTH	
<b>3. Semester / Year:</b>	
Fifth year / 2025-2026	
<b>4. Description Preparation Date:</b>	
12 Dec 2025	
<b>5. Available Attendance Forms:</b>	
Theoretical and practical	
<b>6. Number of Credit Hours (Total) / Number of Units (Total)</b>	
Theoretical: 30 hours, practical: 120 hours. Total units: 6	
<b>7. Course administrator's name (mention all, if more than one name)</b>	
Name: Assist Prof Dr Zaid Saeed Al-Diwachi Email: <a href="mailto:Zaidsaeed@uomosul.edu.iq">Zaidsaeed@uomosul.edu.iq</a>	
<b>8. Course Objectives</b>	
<b>Course Objectives</b>	<ul style="list-style-type: none"> <li>- Introduction to clinical orthodontics</li> <li>- Study the advanced orthodontic treatment techniques.</li> <li>- Study the principle of fixed orthodontics.</li> <li>- Study the manufacturing of removable orthodontics</li> </ul>
<b>9. Teaching and Learning Strategies</b>	
<b>Strategy</b>	<ul style="list-style-type: none"> <li>- Theory lectures and practical laboratories.</li> <li>- Educational videos and utilization of smart boards.</li> <li>- Use of educational models.</li> <li>- Focused student group discussion.</li> </ul>

## 10. Course Structure

### Theoretical Part

Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	1	Orthodontic diagnosis and treatment planning: Personal data Consent form Clinical examination i. General body stature	Orthodontic diagnosis	Theory lectures	Theory exam
2	1	Face examination in 3 dimensions skeletal examination Soft tissue examination	Face examination	Theory lectures	Theory exam
3	1	v. Occlusion	Occlusion	Theory lectures	Theory exam
4	1	Dentition Temporomandibular joint	TMJ	Theory lectures	Theory exam
5	1	d- Diagnostic aids i. Cephalometrics	Diagnostic aids	Theory lectures	Theory exam
6	1	Orthopantomography Other views	Diagnostic aids	Theory lectures	Theory exam
7	1	iv. Study models	Diagnostic aids	Theory lectures	Theory exam
8	1	Photography 3D imaging	Diagnostic aids	Theory lectures	Theory exam
9	1	e- Treatment planning	Treatment planning	Theory lectures	Theory exam
10	1	f- Treatment of Medically compromised patients	Treatment planning	Theory lectures	Theory exam
11	1	g- Orthodontic indices	Treatment planning	Theory lectures	Theory exam
12	1	Space analysis, Bolton's ratio	Space analysis	Theory lectures	Theory exam
13	1	Teeth extraction in orthodontics	Teeth extraction in orthodontics	Theory lectures	Theory exam
14	1	Serial extraction	Serial extraction	Theory lectures	Theory exam
15	1	Vertical and transverse problems: a. Deep bite	Vertical and transverse problems	Theory lectures	Theory exam

## 10. Course Structure

### Theoretical Part

Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
16	1	b. Open bite	Vertical and transverse problems	Theory lectures	Theory exam
17	1	c. Crossbite and scissors bite	Vertical and transverse problems	Theory lectures	Theory exam
18	1	Treatment of common local factors: supernumerary and hypodontia Early loss of deciduous teeth Retained teeth, delayed eruption, impaction, ankylosis Abnormal eruptive behavior Large frenum	Treatment of common local factors	Theory lectures	Theory exam
19	1	f. Bad oral habits	Bad oral habits	Theory lectures	Theory exam
20	1	Treatment of aberrant position of canines	Canines	Theory lectures	Theory exam
21	1	Treatment of general factors: Class I treatment (crowding, spacing, biprotrusion)	Class I	Theory lectures	Theory exam
22	1	Continue class I treatment (method of space creation)	Class I	Theory lectures	Theory exam
23	1	b. Class II div. 1 treatment	Class II	Theory lectures	Theory exam
24	1	c. Class II div. 2 treatment	Class II	Theory lectures	Theory exam
25	1	d. Class III treatment	Class III	Theory lectures	Theory exam
26	1	Treatment of adults Periodontal problems	Periodontal problems	Theory lectures	Theory exam
27	1	b- Orthognathic surgery	Orthognathic surgery	Theory lectures	Theory exam

## 10. Course Structure

### Theoretical Part

Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
28	1	Cleft lip and palate	Cleft lip and palate	Theory lectures	Theory exam
29	1	Continue cleft lip and palate	Cleft lip and palate	Theory lectures	Theory exam
30	1	Digital orthodontics (digital approach in orthodontic diagnosis and treatment)	Digital orthodontics	Theory lectures	Theory exam

### Practical part

Clinical requirements (4 hrs / week)

Treatment of at least one patient:

- 1- Diagnosis :(Mandatory)
  - a- Case sheet filling & presentation
  - b- Upper and lower impression.
  - c- Study models preparation
  - d- Extra & intra oral photographs
  - e- Cephalometric tracing
- 2- Treatment plan:(Mandatory)
- 3- Insertion(Optional)
- 4- Adjustment or Activation(Optional)

<b>11.Course Evaluation</b>	
Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc	
<b>12.Learning and Teaching Resources</b>	
Required textbooks (curricular books, if any)	1. An Introduction to Orthodontics 5th Edition Simon J. Littlewood and Laura Mitchell 2019. 2. Orthodontics: Principles and Practice: Principles and Practice 2nd Edition 2017
Main references (sources)	
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	
Percentage of course update	3%

Name and signature of the course administrator	Name and signature of Head of the Department
<b>Assist Prof Dr Zaid Saeed Al-Diwachi</b>	<b>Assist Prof Dr Sarmad Al-Qassar</b>

## Course Description Form

<b>1. Course Name:</b>	
Pedodontics	
<b>2. Course Code:</b>	
5267 PEDO	
<b>3. Semester / Year:</b>	
Fifth year / 2025-2026	
<b>4. Description Preparation Date:</b>	
17 Dec 2025	
<b>5. Available Attendance Forms:</b>	
Theoretical and practical	
<b>6. Number of Credit Hours (Total) / Number of Units (Total)</b>	
Theoretical: 30 hours, practical: 90 hours. Total units: 5	
<b>7. Course administrator's name (mention all, if more than one name)</b>	
Name: Assist Prof Dr Alaa Dawood Mahmood Email: <a href="mailto:alahdawood@uomosul.edu.iq">alahdawood@uomosul.edu.iq</a>	
<b>8. Course Objectives</b>	
<b>Course Objectives</b>	<ul style="list-style-type: none"> <li>- Introduction to clinical Pedodontics</li> <li>- Study the advanced Pedodontics treatment techniques.</li> <li>- Study the principle of Pedodontics teeth extraction</li> <li>- Study the manufacturing of space maintainer</li> </ul>
<b>9. Teaching and Learning Strategies</b>	
<b>Strategy</b>	<ul style="list-style-type: none"> <li>- Theory lectures and practical laboratories.</li> <li>- Educational videos and utilization of smart boards.</li> <li>- Use of educational models.</li> <li>- Focused student group discussion.</li> </ul>

## 10. Course Structure

### Theoretical Part

Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	1	Advantages of treatment planning, The diagnostic methods, Components of oral examination and diagnosis	Diagnosis and treatment planning	Theory lectures	Theory exam
2	1	Clinical examination , Radio graphic examination	Preliminary medical and dental history	Theory lectures	Theory exam
3	1	Child development, Major area of development, Variables influencing children's dental behaviors ,classification of children's behavior	Art and science of behavior management	Theory lectures	Theory exam
4	1	, Purpose, Classifying children, s cooperative behavior	Non pharmacologic management of patient behavior	Theory lectures	Theory exam
5	1	Degree of sedation, Indications for pharmacological behavior management technique, Pre-treatment documentation and assessment,	Pharmacologic management of patient behavior	Theory lectures	Theory exam
6	1	Conscious sedation, Routes of drug administration, Enteral sedation ,Rectal route, Intra muscular route, Intravenous route, Inhalation, Drugs and agents used for sedation, General anesthesia	Sedation in pediatric dentistry	Theory lectures	Theory exam
7	1	Management of traumatic injuries to the teeth and supporting tissues of children,	Management of traumatic injuries	Theory lectures	Theory exam
8	1	classification of injuries to the anterior teeth of children classification methods of clinical examination	Classification of injuries	Theory lectures	Theory exam

## 10. Course Structure

### Theoretical Part

Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
9	1	Traumatic injuries of the primary teeth and its effect on permanent teeth	Traumatic injuries	Theory lectures	Theory exam
10	1	Treatment of injury of permanent teeth, emergency treatment, temporary restoration of fractured teeth	Treatment of injury of permanent teeth	Theory lectures	Theory exam
11	1	Advances in Pediatric Dentistry: Advances in diagnostic aids, Advances in cavity preparation methods	Advances in Pediatric Dentistry	Theory lectures	Theory exam
12	1	Advances in endodontics, Advances in local anesthesia	Advances in Pediatric Dentistry	Theory lectures	Theory exam
13	1	Advances in restorative materials, Advances in surgical procedures, miscellaneous	Advances in Pediatric Dentistry	Theory lectures	Theory exam
14	1	Acquired disturbances of oral structures	Acquired disturbances of oral structures	Theory lectures	Theory exam
15	1	Developmental disturbances of oral structures	Developmental disturbances of oral structures	Theory lectures	Theory exam
16	1	Introduction simple gingivitis, eruption gingivitis, acute gingival disease; herpes simplex viral infection.	Gingivitis and periodontal disease in children:	Theory lectures	Theory exam
17	1	Acute candidacies (thrush), acute bacterial infection, chronic non specific gingivitis, gingival diseases modified by systemic factors.	Acute candidacies	Theory lectures	Theory exam
18	1	Gingival lesions of genetic origin, ascorbic acid deficiency gingivitis.	Gingival lesions	Theory lectures	Theory exam
19	1	Periodontal diseases in children, early onset periodontitis, prepubertal periodontitis, localized juvenile periodontitis.	Periodontal diseases	Theory lectures	Theory exam

## 10. Course Structure

### Theoretical Part

Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
20	1	Papillon – Lefevre syndrome, gingival recession, extrinsic stains and deposits on teeth	Periodontal diseases	Theory lectures	Theory exam
21	1	Management of space problems, planning for space maintenance, loss of primary incisors	Management of space problems	Theory lectures	Theory exam
22	1	Space Maintenance for the First and Second Primary Molar and the Primary Canine Area, premature loss of second primary molar	Space Maintenance	Theory lectures	Theory exam
23	1	Development of dental arch and occlusion;	Development	Theory lectures	Theory exam
24	1	Development of dental arch and occlusion;	Development	Theory lectures	Theory exam
25	1	Nance analysis, Moyers mixed dentition analysis, Tanaka and Johnston analysis, Bolton analysis.	Arch length analysis;	Theory lectures	Theory exam
26	1	first dental visit, Radiographic examination, Preventive dentistry, Management of a child with special care needs during dental treatment , immobilization,	Dental problems of the disabled child	Theory lectures	Theory exam
27	1	Mental disability, Down syndrome, Intellectual disability, Learning disability	Mental disability	Theory lectures	Theory exam
28	1	Fragile X syndrome, cerebral palsy, autism,	Fragile X syndrome	Theory lectures	Theory exam
29	1	Respiratory diseases, hearing loss, visual impairment, epilepsy	Respiratory diseases	Theory lectures	Theory exam
30	1	Heart disease, hemophilia, sickle cell anemia, viral hepatitis, AIDS, children with systemic diseases	Heart disease	Theory lectures	Theory exam

### Practical part

Week	Hr	Laboratory subject	Learning method	Evaluation method
1	2	Diagnosis and treatment planning	Seminar	Exams

2	2	Preliminary medical and dental history, Clinical examination , Radio graphic examination	Seminar	Exams
3	2	Demonstration how to obtain a complete case sheet	Seminar	Exams
4	2	Monitoring the developing dentition and recognition of any sign of malocclusion	Seminar	Exams
5	2	Types of Caries removal techniques	Seminar	Exams
6	2	Restoration of primary and young permanent teeth with variety types of restorative materials	Seminar	Exams
7	2	Management of traumatic injuries of the anterior teeth	Seminar	Exams
8	2	Minor oral surgery	Seminar	Exams
9	2	Minimal intervention dentistry	Seminar	Exams
10	2	Pulp therapy for permanent dentition	Seminar	Exams
11	2	Pulp therapy for primary dentition	Seminar	Exams
12	2	Materials used for pulp therapy	Seminar	Exams
13	2	Chrome steel crowns	Seminar	Exams
14	2	Management of simple cases of dental anomalies and other developmental defects	Seminar	Exams
15	2	Maintenance of pulp vitality by use of regenerative materials	Seminar	Exams
16	2	Root canal treatment for anterior non vital teeth	Seminar	Exams
17	2	Extraction for non restorable primary and permanent teeth or over- retained primary dentition and permanent teeth for space creation for orthodontic treatment	Seminar	Exams
18	2	Management of molar incisor hypomineralization MIH	Seminar	Exams
19	2	Behavior management for young patients	Seminar	Exams
20	2	Infection control re-assurance and guidance of students	Seminar	Exams
21	2	Tooth colored restoration technique	Seminar	Exams
22	2	Radiographic prescription and interpretation of results	Seminar	Exams
23	2	Space maintainers	Seminar	Exams
24	2	Fluoride application as a preventive measure	Seminar	Exams
25	2	Amelogenesis imperfecta	Seminar	Exams
26	2	Supernumerary teeth and their impact on teeth eruption	Seminar	Exams
27	2	Management of medically compromised children	Seminar	Exams
28	2	Peg teeth management	Seminar	Exams
29	2	ART technique	Seminar	Exams
30	2	Prosthesis usage in pediatric dentistry	Seminar	Exams

<b>11.Course Evaluation</b>	
Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc	
<b>12.Learning and Teaching Resources</b>	
Required textbooks (curricular books, if any)	Mcdonald and Avery's dentistry for child and adolescent 2022 by elsevier Text book of pediatric dentistry nikhil marwa 2nd ed. 2019 new delhi
Main references (sources)	
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	
Percentage of course update	5%

Name and signature of the course administrator	Name and signature of Head of the Department
<b>Assist Prof Dr Alaa Dawood Mahmood</b>	<b>Assist Prof Dr Sarmad Al-Qassar</b>

## Course Description Form

<b>1. Course Name:</b>	
Oral Medicine	
<b>2. Course Code:</b>	
5268 OMED	
<b>3. Semester / Year:</b>	
Fifth year / 2025-2026	
<b>4. Description Preparation Date:</b>	
01 Dec 2025	
<b>5. Available Attendance Forms:</b>	
Theoretical and practical	
<b>6. Number of Credit Hours (Total) / Number of Units (Total)</b>	
Theoretical: 30 hours, practical: 120 hours. Total units: 6	
<b>7. Course administrator's name (mention all, if more than one name)</b>	
Name: Lect Dr Ghassan Yaseen Mohammed Email: <a href="mailto:ghassanyaseen@uomosul.edu.iq">ghassanyaseen@uomosul.edu.iq</a>	
<b>8. Course Objectives</b>	
<b>Course Objectives</b>	<ul style="list-style-type: none"> <li>- Introduction to clinical Oral Medicine</li> <li>- Study the aitiology of oral lesions.</li> <li>- Study the principle of diagnostic techniques</li> <li>- Study the issues related to oral cancer</li> </ul>
<b>9. Teaching and Learning Strategies</b>	
<b>Strategy</b>	<ul style="list-style-type: none"> <li>- Theory lectures and practical laboratories.</li> <li>- Educational videos and utilization of smart boards.</li> <li>- Use of educational models.</li> <li>- Focused student group discussion.</li> </ul>

## 10. Course Structure

### Theoretical Part

Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	1	Introduction	Introduction	Theory lectures	Theory exam
2	1	Introduction	Introduction	Theory lectures	Theory exam
3	1	Laboratory investigation	Laboratory investigation	Theory lectures	Theory exam
4	1	Laboratory investigation	Laboratory investigation	Theory lectures	Theory exam
5	1	Disorder of TMJ	Disorder of TMJ	Theory lectures	Theory exam
6	1	Disorder of TMJ	Disorder of TMJ	Theory lectures	Theory exam
7	1	Facial pain	Facial pain	Theory lectures	Theory exam
8	1	Facial pain	Facial pain	Theory lectures	Theory exam
9	1	Oral ulceration	Oral ulceration	Theory lectures	Theory exam
10	1	Oral ulceration	Oral ulceration	Theory lectures	Theory exam
11	1	Ulcerated vesicular & bullous diseases	Ulcerated vesicular & bullous diseases	Theory lectures	Theory exam
12	1	Ulcerated vesicular & bullous diseases	Ulcerated vesicular & bullous diseases	Theory lectures	Theory exam
13	1	Red and White Lesions of the Oral Mucosa	Red and White Lesions of the Oral Mucosa	Theory lectures	Theory exam
14	1	Red and White Lesions of the Oral Mucosa	Red and White Lesions of the Oral Mucosa	Theory lectures	Theory exam

## 10. Course Structure

### Theoretical Part

Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
15	1	Red and White Lesions of the Oral Mucosa	Red and White Lesions of the Oral Mucosa	Theory lectures	Theory exam
16	1	Salivary gland disorders	Salivary gland disorders	Theory lectures	Theory exam
17	1	Salivary gland disorders	Salivary gland disorders	Theory lectures	Theory exam
18	1	Pigmented lesions of the oral mucosa	Pigmented lesions of the oral mucosa	Theory lectures	Theory exam
19	1	Pigmented lesions of the oral mucosa	Pigmented lesions of the oral mucosa	Theory lectures	Theory exam
20	1	Oral cancer	Oral cancer	Theory lectures	Theory exam
21	1	Oral premalignant lesions	Oral premalignant lesions	Theory lectures	Theory exam
22	1	Oral premalignant lesions	Oral premalignant lesions	Theory lectures	Theory exam
23	1	Oral premalignant lesions	Oral premalignant lesions	Theory lectures	Theory exam
24	1	Neuromuscular diseases:	Neuromuscular diseases:	Theory lectures	Theory exam
25	1	Neuromuscular diseases:	Neuromuscular diseases:	Theory lectures	Theory exam

## 10. Course Structure

### Theoretical Part

Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
26	1	Neuromuscular diseases:	Neuromuscular diseases:	Theory lectures	Theory exam
27	1	Autoimmune disease	Autoimmune disease	Theory lectures	Theory exam
28	1	Autoimmune disease	Autoimmune disease	Theory lectures	Theory exam
29	1	Allergic and hypersensitivity reactions	Allergic and hypersensitivity reactions	Theory lectures	Theory exam
30	1	Allergic and hypersensitivity reactions	Allergic and hypersensitivity reactions	Theory lectures	Theory exam

### Practical part

Week	Hr	Laboratory subject	Learning method	Evaluation method
1	4	Oral lesion & TMJ	Clinic	Exams
2	4	Oral lesion & TMJ	Clinic	Exams
3	4	Oral lesion & TMJ	Clinic	Exams
4	4	Oral lesion & TMJ	Clinic	Exams
5	4	Oral lesion & TMJ	Clinic	Exams
6	4	Oral lesion & TMJ	Clinic	Exams
7	4	Oral lesion & TMJ	Clinic	Exams
8	4	Oral lesion & TMJ	Clinic	Exams
9	4	Oral lesion & TMJ	Clinic	Exams
10	4	Oral lesion & TMJ	Clinic	Exams

**Practical part**

<b>Week</b>	<b>Hr</b>	<b>Laboratory subject</b>	<b>Learning method</b>	<b>Evaluation method</b>
11	4	Oral lesion & TMJ	Clinic	Exams
12	4	Oral lesion & TMJ	Clinic	Exams
13	4	Oral lesion & TMJ	Clinic	Exams
14	4	Oral lesion & TMJ	Clinic	Exams
15	4	Oral lesion & TMJ	Clinic	Exams
16	4	Oral lesion & TMJ	Clinic	Exams
17	4	Oral lesion & TMJ	Clinic	Exams
18	4	Oral lesion & TMJ	Clinic	Exams
19	4	Oral lesion & TMJ	Clinic	Exams
20	4	Oral lesion & TMJ	Clinic	Exams
21	4	Oral lesion & TMJ	Clinic	Exams
22	4	Oral lesion & TMJ	Clinic	Exams
23	4	Oral lesion & TMJ	Clinic	Exams
24	4	Oral lesion & TMJ	Clinic	Exams
25	4	Oral lesion & TMJ	Clinic	Exams
26	4	Oral lesion & TMJ	Clinic	Exams
27	4	Oral lesion & TMJ	Clinic	Exams
28	4	Oral lesion & TMJ	Clinic	Exams
29	4	Oral lesion & TMJ	Clinic	Exams
30	5	Oral lesion & TMJ	Clinic	Exams

<b>11.Course Evaluation</b>	
Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc	
<b>12.Learning and Teaching Resources</b>	
Required textbooks (curricular books, if any)	1. Burket's oral medicine. Michael Glick, Martin Greenberg, Peter Lockhart and Dtephen Challacombe. 13th edition.2021, Wiley Black well. 2. Bumann, A., & Lotzmann, U. TMJ disorders and orofacial pain. The role of dentistry in a multidisciplinary approach. 2011, Thieme.
Main references (sources)	
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	
Percentage of course update	5%

Name and signature of the course administrator	Name and signature of Head of the Department
<b>Lect Dr Ghassan Yaseen</b>	<b>Assist Prof Dr Abdulsattar Salim</b>

## Course Description Form

<b>1. Course Name:</b>	
Research Project	
<b>2. Course Code:</b>	
5269 RESP	
<b>3. Semester / Year:</b>	
Fifth year	
<b>4. Description Preparation Date:</b>	
01 Dec 2025	
<b>5. Available Attendance Forms:</b>	
Theoretical and practical	
<b>6. Number of Credit Hours (Total) / Number of Units (Total)</b>	
Theoretical: 15 hours. Total units: 2	
<b>7. Course administrator's name (mention all, if more than one name)</b>	
Name: Lect Dr Anas Mohammed Al-Mokhtar Email: anas.almukhtar@uomosul.edu.iq	
<b>8. Course Objectives</b>	
<b>Course Objectives</b>	<ul style="list-style-type: none"> <li>- Introduction to research methodology</li> <li>- Study the statistics</li> <li>- Study the principle of medical research ethics</li> <li>- Study the academic writing and research planning</li> </ul>
<b>9. Teaching and Learning Strategies</b>	
<b>Strategy</b>	<ul style="list-style-type: none"> <li>- Theory lectures and practical laboratories.</li> <li>- Educational videos and utilization of smart boards.</li> <li>- Use of educational models.</li> <li>- Focused student group discussion.</li> </ul>

<b>10. Course Structure</b>					
<b>Theoretical Part</b>					
Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	1	Introduction	Research project	Theory lectures	Theory exam

## 10. Course Structure

### Theoretical Part

Week	Hr	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
		Definition of the concept of scientific research			
2	1	-Introduction to research ethics	Research project	Theory lectures	Theory exam
3	1	Principals of research ethics	Research project	Theory lectures	Theory exam
4	1	Research project management	Research project	Theory lectures	Theory exam
5	1	Research methods 1	Research project	Theory lectures	Theory exam
6	1	Research methods 2	Research project	Theory lectures	Theory exam
7	1	Medical statistics 1	Research project	Theory lectures	Theory exam
8	1	Medical statistics 2	Research project	Theory lectures	Theory exam
9	1	Medical statistics3	Research project	Theory lectures	Theory exam
10	1	Research ideas and how to form a research project proposal	Research project	Theory lectures	Theory exam
11	1	Lab safety	Research project	Theory lectures	Theory exam
12	1	Principals of scientific writing	Research project	Theory lectures	Theory exam
13	1	Scientific writing- tips and tricks	Research project	Theory lectures	Theory exam
14	1	Referencing and citation	Research project	Theory lectures	Theory exam
15	1	Build your research Bibliography	Research project	Theory lectures	Theory exam

### Practical part

Research project dissertation – writing and presentation

<b>11.Course Evaluation</b>	
Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc	
<b>12.Learning and Teaching Resources</b>	
Required textbooks (curricular books, if any)	Research Design: Qualitative, Quantitative, and Mixed Methods Approaches. Medical Statistics: A Textbook for the Health Sciences 5th Edition
Main references (sources)	Handbook of Research Ethics and Scientific Integrity 2020 Research Design: Qualitative, Quantitative, and Mixed Methods Approaches.1995 Medical Statistics: A Textbook for the Health Sciences 5th Edition 2011
Recommended books and references (scientific journals, reports...)	Introducing Research Methodology: A Beginner's Guide to Doing a Research Project 2017  Medical Statistics for Beginners 2017
Electronic References, Websites	Pubmed, sciencedirect
Percentage of course update	5%

Name and signature of the course administrator	Name and signature of Head of the Department
<b>Lect Dr Anas Mohammed Al-Mokhtar</b>	<b>Assist Prof Dr Sarmad Al-Qassar</b>