Academic Program Description
College of Dentistry-Uruk University

2025-2026

Academic Program Description Form

University Name: Uruk University

Faculty/Institute: College of Dentistry

Scientific Department: College of Dentistry

Academic or Professional Program Name: Bachelor degree in oral and maxillofacial surgery.

Final Certificate Name: Bachelor degree in oral and maxillofacial surgery.

Academic System: yearly

Description Preparation Date:

File Completion Date:

Signature:

Head of Department Name:

Date:

Signature:

Scientific Associate Name: Dr. Ahmed Adel

Date: ٢٠٢٠/٤/١٥

The file is checked by: Assistant Professor. Dr. Raydaa Ahmed Yas

Department of Quality Assurance and University Performance

Director of the Quality Assurance and University Performance Department:

Date: ٢٠٢٠/٤/١٥

Signature:

جامعة اوروك - كلية الطب الاسنان
College of Dentistry - Uruk University

Prof. Dr. Ban

Approval of the Dean

٢٠٢٠/٤/١٥

Program Vision

The College of Dentistry at Uruk University is committed to providing a stimulating educational and research environment based on sound scientific principles and advanced technologies to ensure the preparation of qualified medical professionals who contribute to improving oral and dental health at the local and regional levels.

The college works to promote self-directed learning and critical thinking among students and encourages applied scientific research that meets the needs of the community. It also aims to strengthen partnerships with health and research institutions to achieve excellence in medical education and treatment services, while maintaining the highest standards of quality and professional ethics.

1. Program Mission

The College of Dentistry at Uruk University strives to be a leader in medical education, scientific research, and community service by offering distinguished academic programs that keep pace with global advancements in dentistry. The college aims to graduate highly qualified dentists, both scientifically and professionally, capable of providing comprehensive and innovative oral healthcare, with a focus on quality, safety, and professional ethics. The college also seeks to promote scientific research in various fields of dentistry, contributing to the advancement of knowledge and the development of innovative solutions to health challenges.

2. Program Objectives

1. To provide distinguished educational programs that ensure students develop high professional skills and ethics.

2. To support scientific research and innovation to develop treatments and technologies used in dentistry and to provide specialized, high-quality healthcare to patients.
3. To enhance the effectiveness of the educational process by using modern

technology, including artificial intelligence and diagnostic and treatment software, and to achieve the principles of sustainable development.

4. To promote communication and understanding among students and members of the community from diverse cultures and backgrounds, and to uphold the values of justice and social equality.

3. Program Accreditation

Nothing

4. Other external influences

Nnothing

5. Program Structure

Program Structure	Number of Courses	Credit hours	Percentage	Reviews*
Institution Requirements	5	12	5.6 %	Basic
College Requirements	43	201	94.4%	Basic
Department Requirements				
Summer Training	14	78.5		Basic
Other				

* This can include notes whether the course is basic or optional.

Program Description

Year/Level	Course Code	Course Name	Credit Hours	
First	101AN	Human Anatomy	theoretical	practical
	102AL	Arabic Language	30	60
	103CS	Computer Sciences	30	0
	104DA	Dental Anatomy	0	60
	105HR	Human Rights	30	60
	106CH	Medical Chemistry	30	
	107PS	Medical Physics	60	60
	108BL	\Biology	60	60

	109EL	English Language	60	60
Second	209 DM	Dental Material	30	60
	210 PR	Prosthodontics	30	120
	215 OH 211 EL	Oral Histology & Embryology	60	120
	212 BC	Biochemistry	60	60
	213 GH	General Histology	60	60
	214 PH	General Physiology	60	60
	201 AN	General Anatomy	30	60
Third	316MB	Microbiology	60	60
	317PC	Pharmacology	60	60
	318CM	Community Dentistry	30	60
	319CV	Conservative dentistry	60	120
	320RL	Dental Radiology	30	60
	321PA	General Pathology	60	60
	322OS	Oral Surgery	30	60
	310PR	Prosthodontics	30	60
	311DE	Dental ethics	30	
Fourth	423GM	General Medicine	30	75
	424GS	General Surgery	30	75
	422OS	Oral Surgery	30	150
	419CV	Conservative Dentistry	30	150
	425OP	Oral Pathology	60	90
	426OD	Orthodontics	30	150
	427PE	Pedodontic	30	0
	428PT	Periodontics	30	75
	410PR	Prosthodontics	30	75
Fifth	519CV	Conservative Dentistry	30	150
	529OM	Oral Medicine	30	75
	522OS	Oral Surgery	30	150
	530PAPD	Pedodontics	30	37.5
	531PD	Prevention	30	37.5
	510PR	Prosthodontics	30	150
	526OD	Orthodontics	30	75

	528PT	Periodontics	30	75

6. Expected learning outcomes of the program

Knowledge	
Learning Outcomes 1	. To present information in a way that enables students to understand and comprehend.
Learning Outcomes 2	2. To increase students' knowledge of methods for examining and treating the mouth and teeth.
Learning Outcomes 3	3. To enable students to identify and make diagnostic judgments regarding cases associated with complete removable dentures and to treat them clinically.
Learning Outcomes 4	4. To enable students to treat all age groups, from children to the elderly.
Skills	
Learning Outcomes 1	1. To present information in a way that enables students to understand and comprehend.
Learning Outcomes 2	2. To increase students' knowledge of methods for examining and treating the mouth and teeth.
Learning Outcomes 3	3. To enable students to identify and make diagnostic judgments regarding cases associated with complete removable dentures and to treat them clinically.
Learning Outcomes 4	4. To enable students to treat all age groups, from children to the elderly.
Ethics	
Learning Outcomes 1	1. To cultivate in students a sense of professional and ethical responsibility.
Learning Outcomes 2	2. To promote and instill professional and ethical values in students for the practice of dentistry.
Learning Outcomes 3	3. To develop in students a sense of responsibility during their studies and in the workplace
Learning Outcomes 4	4. To support and enhance medical awareness among students and the general public.

7. Teaching and Learning Strategies

- The lecture method:
- Using PowerPoint presentations
- Using screens and interactive whiteboards
- Learning in laboratories to acquire scientific skills
- Workshops
- Reports and projects
- Oral discussions
- Student groups

8. Evaluation methods

- Daily assessments will be conducted in the clinic and lecture halls.
- Students will be tested on their quick thinking and problem-solving skills.
- Students will be monitored and graded for daily participation.
- They will be given a mid-year exam.
- They will be given an oral exam.
- They will be given a final written exam.

Faculty					
Members of the Board					
Academic rank	Specialization		Special requirements/ skills (if any)	Faculty preparation	
	General	General		Permanent appointment	Lecturer
Prof. Dr. Ammar A.A. Ali	B.D.S. oral & maxillofacial surgery	Ph.D. conservative dentistry		Staff	
Prof. Luay N. Kaka	B.D.S. oral & maxillofacial surgery	M.Sc. in radiology		Staff	
Prof. Zainab A. A. Al- Dahan	B.D.S. oral & maxillofacial surgery	M.Sc. in Pedodontics		Staff	
Prof. Gadah M. Mustafa	B.D.S. oral & maxillofacial surgery	M.Sc. in oral histology		Staff	
Prof. Kadhim Jawad Hano	B.D.S. oral & maxillofacial surgery	M.Sc. in periodontology		Staff	
Prof. Dr. Abd Al-Kareem A. Ali	B.D.S. oral & maxillofacial surgery	Ph.D. in periodontology		Staff	
Prof. Dr. Hanan A.A. Kalaf	B.D.S. oral & maxillofacial surgery	Ph.D. in prosthodontics		Staff	
Assist.Prof . Salah A.A. Mohammed	B.D.S. oral & maxillofacial surgery	M.Sc. in prosthodontics		Staff	

Assist. Prof.Dr. Baydaa A. Yas	**B.D.S. oral & maxillofacial surgery**	**Ph. D. in preventive dentistry**		**Staff**	
Assist.Prof.Dr. Essam Nouri Salman	**B.D.S. Medicine and General Surgery**	**PhD.in General Medicine**		**Staff**	
Assist. Prof. Dr. Oruba J Tarsh	**B.Ed.In Physics**	**PhD. In medical physics**		**Staff**	
Lec. Dr. Ahmed Adel Othman	**B.D.S. oral & maxillofacial surgery**	**Ph.D in oral Medicine**		**Staff**	
Lecturer Sundus A. Ali	**B.D.S. oral & maxillofacial surgery**	**M.Sc. in oral & maxillofacial surgery**		**Staff**	
Lec. Dr. Ali Waleed Hadi	**B.D.S. oral & maxillofacial surgery**	**Ph.D. in conservative dentistry**		**Staff**	
Lec. Dr. Ali G.M. Mahdi	**B.D.S. oral & maxillofacial surgery**	**Ph.D. in oral and maxillofacial surgery**		**Staff**	
Lec. Dr. Mohammed S. Majeed	**B.D.S. oral & maxillofacial surgery**	**Ph.D. in oral and maxillofacial surgery**		**Staff**	
Lec. Dr. Farah S Rasheed	**B.D.S. oral & maxillofacial surgery**	**Ph.D. in oral pathology**		**Staff**	
Lec.Dr. Israa S Mohamed	**B.D.S. oral & maxillofacial surgery**	**Ph.D. in Preventive dentistry**		**Staff**	

Lec.Dr. Jaffar S. Makki	**B.D.S. Medicine and General Surgery**	**Ph.D in General Pathology**		**Staff**	
Lec. Dr. Thaer S. Salman	**B.D.S. Medicine and General Surgery**	**Ph.D in Community Medicine**		**Staff**	
Lec. Dr. Atheer Ali Hassan	**B.D.S. Medicine and General Surgery**	**Ph.D in General Surgery**		**Staff**	
Lec. Dr. Ali Hussain Mohammed ali	**B.D.S. Medicine and General Surgery**	**Ph.D in General Pathology**		**Staff**	
Lec. Dr. Raheem S. Jaber	**B.Sc.In chemistry**	**Ph.D in biochemistry**		**Staff**	
Lec. Dr. Afnan R. Ahmed	**B.Sc.In biology**	**Ph.D in biology**		**Staff**	
Lec. Aliaa H. Faraj	**B.Sc.In chemistry**	**M.Sc. in medical chemistry**		**Staff**	
Assist. Lec.Ali MM Jafar	**B.D.S. Medicine and General Surgery**	**M.Sc. In general pathology**		**Staff**	
Assist. Lec. Najlaa S. Mahdi	**B.D.S. oral & maxillofacial surgery**	**M.Sc. in preventive dentistry**		**Staff**	

Assist. Lec. Muna Hashim Muhabis	**B.D.S. oral & maxillofacial surgery**	**M.Sc. in pedodontics**		**Staff**	
Assist. Lec. Hind Sabah Qasim	**B.D.S. oral & maxillofacial surgery**	**M.Sc. in oral & maxillofacial surgery**		**Staff**	
Assist. Lec. Yassir Mohammed Abid	**B.D.S. oral & maxillofacial surgery**	**M.Sc. in oral medicine**		**Staff**	
Assist. Lec. Sammar S. Alwan	**B.D.S. oral & maxillofacial surgery**	**M.Sc. in prosthodontics**		**Staff**	
Assist. Lec. Yasir Basim Abid Ali	**B.D.S. oral & maxillofacial surgery**	**M.Sc. in preventive dentistry**		**Staff**	
Assist. Lec. Rana J. Abid	**B.D.S. oral & maxillofacial surgery**	**M.Sc. in conservative dentistry**		**Staff**	
Assist. Lec. Mohammed K. Makki	**B.D.S. oral & maxillofacial surgery**	**M.Sc. in conservative dentistry**		**Staff**	
Assist. Lec. Lina I Khalid	**B.D.S. oral & maxillofacial surgery**	**M.Sc. in periodontics**		**Staff**	
Assist. Lec. Hassan N Abid Al-Qader	**B.D.S. oral & maxillofacial surgery**	**M.Sc. in conservative dentistry**		**Staff**	
Assist. Lec.Ahmed L. Salman	**B.D.S. oral & maxillofacial surgery**	**M.Sc. in conservative dentistry**		**Staff**	

Assist. Lec. Ibrahim F Mohammed	**B.D.S. oral & maxillofacial surgery**	**M.Sc. in oral histology**		**Staff**	
Assist. Lec. Hanadi H. Majeed	**B.D.S. oral & maxillofacial surgery**	**M.Sc. in orthodontics**		**Staff**	
Assist. Lec. Amjad M. Khalaf	**B.D.S. oral & maxillofacial surgery**	**M.Sc. in conservative dentistry**		**Staff**	
Assist. Lec. Mohammed S Khalil	**B.D.S. oral & maxillofacial surgery**	**M.Sc. in conservative dentistry**		**Staff**	
Assist. Lec. Rasha Adel Othman	**B.D.S. oral & maxillofacial surgery**	**M.Sc. in oral surgery**		**Staff**	
Assist. Lec. Meena M Ganee	**B.D.S. oral & maxillofacial surgery**	**M.Sc. in conservative dentistry**		**Staff**	
Assist. Lec. Ruqayah A A Abd Al-Razaq	**B.D.S. oral & maxillofacial surgery**	**M.Sc. in conservative dentistry**		**Staff**	
Assist. Lec. Hiba Murtadh Hussain	**B.SC. In Pharmacy**	**M.Sc. in pharmacology**		**Staff**	
Assist. Lec.Luma S Dnha	**B.D.S. oral & maxillofacial surgery**	**M.Sc. in orthodontics**		**Staff**	
Assist. Lec.Sana F Hathertee	**B.D.S. oral & maxillofacial surgery**	**M.Sc. in periodontics**		**Staff**	
Assist. Lec. Janah Z Abid Ali	**B.D.S. oral & maxillofacial surgery**	**M.Sc. in oral surgery**		**Staff**	
Assist. Lec. Rasha A A Najm	**B.D.S. oral & maxillofacial surgery**	**M.Sc. in oral microbiology**		**Staff**	

Thamer E. Farhood	B.D.S. oral & maxillofacial surgery	High Diploma in conservative dentistry		Staff	
Awf Othman Kadhim	B.D.S. oral & maxillofacial surgery	High diploma in conservative dentistry		Staff	
Arwa A Abid	B.D.S. oral & maxillofacial surgery	High diploma in orthodontics		Staff	
Assist. Lec. Ahmed A Mhawee	B.Sc.In chemistry	M.Sc. in medical chemistry		Staff	
Assist. Lec.Bashar M Basheer	B.Sc.In Computer sciences	M.Sc. in computer sciences		Staff	
Assist.Lec. Noor Wathiq Abdulkareem	B.Sc.In Physic	M.Sc. In Physic		Staff	
Assist.Lec. Shahad Fayez Abd	B.Sc.In biology	M.Sc. In oral Microbiology		Staff	
Assist. Lec. Hameeda . M. Hassan	B.D.S in Veterinary Medicine	M.Sc in Infectious Diseases		Staff	
Assist.Lec.Ammar Mahdi Sweif	B. Ed in Arabic Language	M.Sc. In Arabic Language		Staff	
Dr. Anoush Aram Haik	B.D.S. oral & maxillofacial surgery	Ph.D. in Orthodontics			Lecturer
Maha Abdel Salam Mohamed	B.D.S. oral & maxillofacial surgery	M.Sc in Periodontology			Lecturer
Adhraa Owaid Mansour	B.D.S. oral & maxillofacial surgery	M.Sc in Periodontology			Lecturer

Manar Abdul-Amir Kamel	**B.D.S. oral & maxillofacial surgery**	**High Diploma in Pedodontics**			**Lecturer**
Sabreen Ali Mahmoud	**B.Sc. Medical and Health Technologies**	**M.Sc. in Dental Technology**			**Lecturer**

Professional Development

Mentoring new faculty members

Providing technical and technological support to new faculty members to help them adapt to the technologies and tools used in teaching and research. Providing academic guidance from more experienced faculty members to help define research and teaching goals and direct efforts toward achieving them. Regularly monitoring the progress of new faculty members and evaluating their experiences at the college to ensure they achieve their goals and improve their performance.

Professional development of faculty members

Organize training courses and workshops for faculty members to update their knowledge in their respective fields and to learn new and effective teaching methods. These programs should include training on the effective use of technology in teaching and research.

2. Provide mechanisms for regularly evaluating faculty performance and offering constructive feedback to help them improve their performance and achieve their personal and professional goals.

3.Faculty members should be encouraged to participate in local and international scientific conferences, present their research, and share their experiences with their colleagues in the field.

Acceptance Criterion

dmission is based on the student's specific average after completing the ministerial exam for e sixth preparatory grade, and selection is done by the Ministry of Higher Education and cientific Research and other channels approved by the ministry.

10.**The most important sources of information about the program**
Adopting programs from reputable international universities in the same specialization and approved sources of textbooks issued by reputable publishing houses and highly rated periodicals.

11.Program Development Plan
1. Providing academic advising programs for faculty members to help them define their research and teaching goals and develop their career plans. 2. Organizing academic exchange programs with other universities or prestigious medical institutions to enhance collaboration and knowledge sharing. 3. Offering training courses to develop leadership and management skills for faculty members, enabling them to apply these skills in managing academic and research programs and developing university policies. 4.Providing financial and technical support to faculty members to conduct advanced scientific research and publish their findings in peer-reviewed journals. Workshops on scientific writing and data analysis can also be organized.

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	101AN	Human Anatomy	essential	√	√			√	√	√	√	√	√	√	√
	102AL	Arabic Language	essential	√	√			√	√	√	√	√	√	√	√
	103CS	Computer Sciences	essential	√	√			√	√	√	√	√	√	√	√
	104DA	Dental Anatomy	essential	√	√			√			√	√			
	105HR	Human Rights	essential	√	√			√	√			√	√		
	106CH	Medical Chemistry	essential	√	√	√	√	√	√	√	√	√	√	√	√
	107PS	Medical Phycis	essential	√	√	√	√	√	√	√		√	√	√	√
	108BL	Biology	essential	√	√	√	√	√	√	√		√	√	√	√
	109EL	English Language	essential	√	√	√	√	√	√	√		√	√	√	√
Second	209 DM	Dental Material	essential	√	√	√		√	√			√	√		
	210 PR	Prosthodontics	essential	√	√			√	√			√	√	√	√
	215 OH 211 EL	Oral Histology & Embryology	essential	√	√	√		√	√			√	√	√	
	212 BC	Biochemistry	essential	√	√	√	√	√	√	√		√	√	√	
	213 GH	General Histology	essential	√	√	√	√	√	√	√	√	√	√	√	√

	214 PH	General Physiology	essential	√	√			√				√	√		
	201 AN	General Anatomy	essential	√	√			√	√	√	√	√	√	√	√
Third	316 MB	Microbiology	essential	√	√	√	√	√	√	√		√	√		
	317 PC	Pharmacology	essential	√	√	√	√	√	√			√	√		
	318 CM	Community Dentistry	essential	√	√			√	√			√	√		
	319 CV	Conservative dentistry	essential	√	√			√	√			√	√		
	320RL	Dental Radiology	essential	√	√	√	√	√	√	√		√			
	321PA	General Pathology	essential	√	√	√		√	√	√		√			
	322OS	Oral Surgery	essential	√	√	√		√	√	√		√			
	310 PR	Prosthodontics	essential	√				√	√			√	√	√	√
	311 DE	Dental ethics	essential	√	√	√	√	√	√	√	√	√	√	√	√
Fourth	423 GM	General Medicine	essential	√	√	√		√	√			√			
	424 GS	General Surgery	essential	√	√	√			√	√		√			
	422 OS	Oral Surgery	essential	√	√	√	√	√	√	√		√			
	419 CV	Conservative Dentistry	essential	√	√	√		√	√			√	√		
	425 OP	Oral Pathology	essential	√	√	√		√	√	√		√			

	426 OD	Orthodontics	essential	√	√	√		√	√	√		√			
	427 PE	Pedodontic	essential	√	√	√		√	√	√		√	√	√	
	428 PT	Periodontics	essential	√	√	√		√	√	√		√	√	√	
	410 PR	Prosthodontics	essential	√	√	√		√	√	√		√	√	√	√
Fifth	519 CV	General Medicine	essential	√	√	√		√	√	√		√			
	529 OM	General Surgery	essential	√	√			√	√	√	√	√	√		
	522 OS	Oral Surgery	essential	√	√			√	√	√	√	√	√		
	530 PAPD	Conservative Dentistry	essential	√	√	√		√	√	√		√	√	√	√
	531 PD	Oral Pathology	essential	√	√	√		√	√	√		√	√		
	510 PR	Orthodontics	essential	√	√	√	√	√	√	√	√	√	√	√	√
	526 OD	Pedodontic	essential	√				√	√			√			
	528 PT	Periodontics	essential	√	√	√		√	√	√		√	√	√	

First stage: Course Description Form (Theoretical)

1. Course Name: human anatomy

2. Course Code: 101 AN

3. Semester / Year: 2025-2026

4. Description Preparation Date: 2-12-2025

5. Available Attendance Forms: First year students

6. Number of Credit Hours (Total) / Number of Units (Total) 60 hrs

7. Course administrator's name (mention all, if more than one name)

Name: Assist. Prof. Isam Noori Salman
Email: esamnoori61@gmail.com.com

8. Course Objectives(theoretical)

Course Objective	• **Cognitive Objectives:**
	  ○ **State the fundamental knowledge and principles of**
	  ○ **Human anatomy**
	  ○ **Prepare concise reports on the scientific material.**
	• **Affective and Value Objectives :**
	  ○ **Pose discussion-provoking questions by students.**
	  ○ **Pose questions for the student to solve for the semesters.**
	  ○ **Conduct quick intellectual quizzes.**
	• **General and Transferable Skills :**
	  ○ **Follow up on external resources.**
	• **Prepare external questions from those resources.**
	• **Urge students to follow educational sequences.....**

9. Teaching and Learning Strategies (Theoretical)

Strategy	1. **Lectures.** 2. **Reading core textbooks.** 3. **Conducting scientific discussions.**

10. Course Structure

Week	Hours	Required	Unit or subject name	Learning	Evaluation

		Learning Outcomes		method	method
1	1theory		Anatomical Terminology Basic anatomy	P0wer point	QUI
2	=		Musculoskeletal (mus and Bone)	=	=
3	=		Cartilage and ligaments	=	=
4	=		Joints	=	=
5	=		Skin and its appendages	=	=
6	=		Vascular system	=	=
7	=		Nervous system	=	=
8	=		Osteology of skull	=	=
9	=		Temporal Bone/sphenoid/ethmodal	=	=
10	=		Facial Bone	=	=
11	=		External Views (Norm of the Skull	=	=
12	=		Cranial Cavity	=	=
13	=		Orbital Region	=	=
14	=		Nasal Cavity	=	=

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)	Snell clinical anatomy
Main references (sources)	Cunnighams human Anatomy
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	Pubmed https://ncbi.nlm.ninh.gov/pubmed-university web site

Course Description Form (Practical)

13.Course Name: Human anatomy first Year

14.Course Code: 101AN

15.Semester / Year:2025-2026

16.Description Preparation Date2-12 -2025

17.Available Attendance Forms: theory and practical lab training

18.Number of Credit Hours (Total) / Number of Units (Total) 120 hrs

1 theory 2 practical

19.Course administrator's name (mention all, if more than one name)

Name: Name: Assist. Prof. Isam Noori Salman
Email: esamnoori61 @gmail

20.Course Objectives

Course Objectives	• **Cognitive Objectives:**
	  ○ **State the fundamental knowledge and principles of human anatomy**
	• **Affective and Value Objectives :**
	  ○ **Pose discussion-provoking questions by students.**
	  ○ **Pose questions for the student to solve for the semesters.**
	  ○ **Conduct quick intellectual quizzes.**
	• **General and Transferable Skills :**
	  ○ **Follow up on external resources.**

21.Teaching and Learning Strategies

Strategy	1. **Lectures.** 2. **Conducting examinations of anatomical modules samples.** 3. **Reading core textbooks.** 4. **Conducting scientific discussion**

22. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2 practical		Anatomical Terminology	Power po	Quiz

			Basic anatomy		
2	=		Musculoskeletal(muscle and Bone)	=	=
3	=		Cartilage and ligaments	=	=
4	=		Joints	=	=
5	=		Skin and its appendages	=	=
6	=		Vascular system	=	=
7	=		Nervous system	=	=
8	=		Osteology of skull	=	=
9	=		Temporal Bone/sphenoid/ethmodal	=	=
10	=		Facial Bone	=	=
11	=		External Views (Normas) of the Skull	=	=
12	=		Cranial Cavity	=	=
13	=		Orbital Region	=	=
14	=		Nasal Cavity	=	=
15	=		Larynx	=	=

23.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

24.Learning and Teaching Resources

Required textbooks (curricular books, if ar	Snell anatomy
Main references (sources)	
Recommended books and references (scientific journals, reports...)	Cunnigham human anatomy
Electronic References, Websites	PUB MED - https://www.ncbi.nlm.nih.gov/pubmed - University website.

Course Description Form (Theoretical)

25.Course Name: English and Medical Terminology	
26.Course Code: 102EL	
27.Semester / Year: 2025-2026	
28.Description Preparation Date: 16-9-2025	
29.Available Attendance Forms: Attendance in teaching hall	
30.Number of Credit Hours (Total) / Number of Units (Total) : 30 hours/ 60 teaching units	
31.Course administrator's name (mention all, if more than one name)	
Name: L. Dr. Ahmed Adel Othman / L. Dr. Israa Saad Mohammed	
Email: ahmedadel@uruk.edu.iq / israa.s.mohammed@uruk.edu.iq	
32.Course Objectives	
Course Objectives	• To prepare students to a high level of proficiency in English, enabling them to pursue dental studies and practical courses. • To familiarize them with the English terminology specific to each organ system in a living organism. • To teach and train students on the origin and growth of dental tissue and the difference between a word and a term....
33.Teaching and Learning Strategies	
Strategy	• Collaborative learning strategy among students • Brainstorming • Dual coding (associating words with images

10. Course Structure

Evaluation Methods	Learning Methods	Unit or subject name	Required Learning Outcomes	HOURS	WEEK
Daily, monthly, mid-year, and final exams	THEORITICAL	Prefixes & suffixes	LEARNING TERMS ABOUT Prefixes & suffixes	1	1
Daily, monthly, mid-year, and final exams	THEORITICAL	Integumentary system	LEARNING TERMS ABOUT Integumentary SYSTEM	1	2
Daily, monthly, mid-year, and final exams	THEORITICAL	Muscular System	LEARNING TERMS ABOUT MUSCULAR SYSTEM	1	3
Daily, monthly, mid-year, and final exams	THEORITICAL	Respiratory System	LEARNING TERMS ABOUT RESPIRATORY SYSTEM	1	4
Daily, monthly, mid-year, and final exams	THEORITICAL	Digestive System	LEARNING TERMS ABOUT DIGESTIVE SYSTEM	1	5
Daily, monthly, mid-year, and final exams	THEORITICAL	Nervous System	LEARNING TERMS ABOUT NERVOUS SYSTEM	1	6
Daily, monthly, mid-year, and final exams	THEORITICAL	Cardiovascular System	LEARNING TERMS ABOUT CARDIO VASCULAR SYSTEM	1	7
Daily, monthly, mid-year, and final exams	THEORITICAL	Blood and Lymph	LEARNING TERMS ABOUT BLOOD & LYMPH	1	8
Daily, monthly, mid-year, and final exams	THEORITICAL	Immune System	LEARNING TERMS ABOUT IMMUNNE SYSTEM	1	9
Daily, monthly, mid-year, and final exams	THEORITICAL	Endocrine System	LEARNING NAMES ABOUT ENDOCRINE SYSTEM	1	10

Daily, monthly, mid-year, and final exams	THEORITICAL	Small Talk	LEARNING TERMS ABOUT IMMUNNE SYSTEM	1	11
Daily, monthly, mid-year, and final exams	THEORITICAL	Common Mistakes	LEARNING TERMS ABOUT Common mistaks	1	12
Daily, monthly, mid-year, and final exams	THEORITICAL	Passive Voice	LEARNING TERMS ABOUT Passive Voice	1	13
Daily, monthly, mid-year, and final exams	THEORITICAL	Direct and Indirect Speech	LEARNING TERMS ABOUT Direct and indirect speech	1	14
Daily, monthly, mid-year, and final exams	THEORITICAL	Synonyms	LEARNING TERMS ABOUT Synonyms	1	15

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

30% Annual coursework (including daily and monthly exams)

70% Final theory exam

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Headway intermediate level
Main references (sources)	Medical Terminology 3rd Edition (Charline M Dofka)
Recommended books and references (scientific journals, reports...)	Scientific journals on the college web page

Course Description Form (Theoretical)

1. Course Name: Computer Sciences

2. Course Code: 103CS

3. Semester/Year: 2025-2026

4. Date of preparation of this description: 20/10/2025

5. Available Forms of Attendance : Attendance in the Theoretical Classroom (Weekly)

6. Number of study hours (total) / number of units (total) : 30 hours / 60 credits

7. Course administrator name (if more than one name mentioned)

Name: Mr. Bashar Mazin Basheer Email: bashar.basheer@uruk.edu.i

8. Course Objectives

Course Objectives	• Introduction to Computer Science and teaches the student the performance of computers, approved methods, programs, and the use of computers in the medical field.

9. Teaching and Learning Strategies

Strategy	• ollaborative Learning: Encourages collaboration and interaction between learners, to solve problems and discuss concepts. • Active Learning: It focuses on actively engaging learners in the learning process, through the use of interactive activities such as role-plays, simulations, and hands-on experiences. • Technology-based learning: Technology is used in the learning and teaching process, such as the use of multimedia and online learning.

10. Course Structure

The week	Hours	Required Learning Outcomes	Unit Name or Subject	Learning method	Evaluation Method
2+1	1	Introduction about computer / Hardware and Software / computer structure/ Floppy magnetic disks + E-learning	Computers	Using a computer with Smart Tablet	Exams Daily & Monthly Semi-annual and final
3+4	1	Introduction to E-learning Google Classroom Platform Google drive + Google forms	Computers	Using a computer with Smart Tablet	Exams Daily & Monthly Semi-annual and final
6+5	1	Online conferencing+ Introduction about Windows /A look at Windows 10/Stating Windows 10/Working with a windows Program + Work ing with files and folders/ Using	Computers	Using a computer with Smart Tablet	Exams Daily & Monthly Semi-annual and final

		My computer			
7+8	1	Working with Taskbar and Desktop+ Using Windows Accessories	Computers	Using a computer with Smart Tablet	Exams Daily & Monthly Semi-annual and final
9+10	1	A look at Control Panel+ Widows Explorer	Computers	Using a computer with Smart Tablet	Exams Daily & Monthly Semi-annual and final
11+12	1	Libraries+ Introduction about Microsoft Word2016 A look at Microsoft Word /Editing Document	Computers	Using a computer with Smart Tablet	Exams Daily & Monthly Semi-annual and final
13	1	Formatting Text/ Formatting paragraphs/ Proofing documents	Computers	Using a computer with Smart Tablet	Exams Daily & Monthly Semi-annual and final

14	1	Adding Tables	Computers	Using a computer with Smart Tablet	Exams Daily & Monthly Semi-annual and final
15+16	1	Inserting Graphic Element+Controlling page Appearance	Computers	Using a computer with Smart Tablet	Exams Daily & Monthly Semi-annual and final
18+17	1	Introduction about Excels /A Look at Microsoft Excel+ Modifying A Worksheet/ performing Calculations	Computers	Using a computer with Smart Tablet	Exams Daily & Monthly Semi-annual and final
19	1	Formatting a worksheet/ Developing a work book/ Printing Workbook Contents/Customizing Layout	Computers	Using a computer with Smart Tablet	Exams Daily & Monthly Semi-annual and final
21+22	1	Introduction about Microsoft Access/ A look at Microsoft Access+Creating Data tables/properties of the fields	Computers	Using a computer with Smart Tablet	Exams Daily & Monthly Semi-annual and final
23	1	Querying the database/Designing Forms/Producing reports	Computers	Using a computer with Smart Tablet	Exams Daily & Monthly Semi-annual and final
24+25	1	Introduction about Microsoft Power point/starting	Computers	Using a computer with Smart Tablet	Exams Daily & Monthly Semi-annual and final

26	1	power point2016 Formatting text/Using graphics and Text	Computers	Using a computer with Smart Tablet	Exams Daily & Monthly Semi-annual and final
27+28	1	Manipulating the slides/Using Multimedia Elements	Computers	Using a computer with Smart Tablet	Exams Daily & Monthly Semi-annual and final
29	1	Power point Management	Computers	Using a computer with Smart Tablet	Exams Daily & Monthly Semi-annual and final
30	1	Power point Management	Computers	Using a computer with Smart Tablet	Exams Daily & Monthly Semi-annual and final

11.Course Evaluation

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

12.Learning and Teaching Resources

Required Textbooks (Methodology, if any)	• Windows 10 Office 2016
Main References (Sources)	• Computer Basics and Office Applications, Part 1 and Part 2
Recommended books and references (scientific journals, reports...)	• Any book related to the subject published from accredited institute
Electronic References, Websites	• Microsoft and office formal website

Course Description Form (Practical)

13. Course Title: Computer Sciences

14. Course Code: 103CS

15. Semester/Year: 2025-2026

16. Date of preparation of this description: 10/20/2025

17. Available Forms of Attendance : Attendance in the Theoretical Classroom (Weekly)

18. Number of Hours (Total) / Number of Credits (Total): 30 Hours / 60 Credits

19. Course administrator name (if more than one name mentioned)

Name: Eng. Bashar Mazen Bashir Email: bashar.basheer@uruk.edu.iq

20. Course Objectives

Course Objectives	• **Introduction to Computer Science and teaches the student th performance of computers, approved methods, programs, and th use of computers in the medical field.**

21. Teaching and Learning Strategies

Strategy	• Collaborative Learning: Encourages collaboration and interaction betv learners, to solve problems and discuss concepts. • Active Learning: It focuses on actively engaging learners in the lear process, through the use of interactive activities such as role-p simulations, and hands-on experiences. • Technology-based learning: Technology is used in the learning teaching process, such as the use of multimedia and online learning.

22. Course Structure

The week	Hours	Required Learning Outcomes	Unit Name or Subject	Learning method	Evaluation Method
2+1	1	Introduction about computer / Hardware and Software / computer structure/ Floppy magnetic disks + E-learning	Computers	Using a computer with Smart Tablet	Exams Daily & Monthly Semi-annual and final
3+4	1	Introduction to E-learning Google Classroom Platform Google drive + Google forms	Computers	Using a computer with Smart Tablet	Exams Daily & Monthly Semi-annual and final
6+5	1	Online	Compute	Using a computer	Exams

		conferencing+ Introduction about Windows /A look at Windows 10 /Stating Windows 10/Working with a windows Program + Work ing with files and folders/ Using My computer	rs	with Smart Tablet	Daily & Monthly Semi-annual and final
7+8	1	Working with Taskbar and Desktop+ Using Windows Accessories	Compute rs	Using a computer with Smart Tablet	Exams Daily & Monthly Semi-annual and final
9+10	1	A look at Control Panel+ Widows Explorer	Compute rs	Using a computer with Smart Tablet	Exams Daily & Monthly Semi-annual and final
11+12	1	Libraries+ Introduction about Microsoft Word2016 A look at Microsoft Word /Editing Document	Compute rs	Using a computer with Smart Tablet	Exams Daily & Monthly Semi-annual and final
13	1	Formatting Text/ Formatting paragraphs/ Proofing documents	Compute rs	Using a computer with Smart Tablet	Exams Daily & Monthly Semi-annual and final
14	1	Adding Tables	Compute rs	Using a computer with Smart Tablet	Exams Daily & Monthly Semi-annual and final
15+16	1	Inserting Graphic Element+Controlling page Appearance	Compute rs	Using a computer with Smart Tablet	Exams Daily & Monthly Semi-annual and final
18+17	1	Introduction about Excels /A Look at Microsoft Excel+ Modifying A Worksheet/ performing Calculations	Compute rs	Using a computer with Smart Tablet	Exams Daily & Monthly Semi-annual and final
19	1	Formatting a worksheet/ Developing a work book/ Printing Workbook	Compute rs	Using a computer with Smart Tablet	Exams Daily & Monthly Semi-annual and final

		Contents/Customizing Layout			
21+22+23	1	Introduction about Microsoft Access/ A look at Microsoft Access+Creating Data tables/properties of the fields	Computers	Using a computer with Smart Tablet	Exams Daily & Monthly Semi-annual and final
23	1	Querying the database/Designing Forms/Producing reports	Computers	Using a computer with Smart Tablet	Exams Daily & Monthly Semi-annual and final
24+25	1	Introduction about Microsoft Power point/starting	Computers	Using a computer with Smart Tablet	Exams Daily & Monthly Semi-annual and final
26	1	power point2016 Formatting text/Using graphics and Text	Computers	Using a computer with Smart Tablet	Exams Daily & Monthly Semi-annual and final
27+28	1	Manipulating the slides/Using Multimedia Elements	Computers	Using a computer with Smart Tablet	Exams Daily & Monthly Semi-annual and final
29	1	Power point Management	Computers	Using a computer with Smart Tablet	Exams Daily & Monthly Semi-annual and final
30	1	Power point Management	Computers	Using a computer with Smart Tablet	Exams Daily & Monthly Semi-annual and final

Course Evaluation	
Distribution of the score out of 100 according to the tasks assigned to the student, such as daily preparation, daily, oral, monthly, written exams, reports, etc. etc	
Learning and Teaching Resources	
Required Textbooks (Methodology, if any)	• Windows 10 • Office 2016
Main Reference (s)	• Computer Basics and Office Applications, Part 1 and Part 2
Recommended books and references (scientific journals, reports...)	Any book related to the subject published from accredited institute
References, Websites	Microsoft and office formal website

34. Course Name:

Dental anatomy

35.Course Code:

104 DA

36.Semester / Year:

2025-2026

37.Description Preparation Date:

31-10-2025

38.Available Attendance Forms:

Available Attendance Modes:

Attendance in the classroom for the theoretical and laboratory sessions.

39.Number of Credit Hours (Total) / Number of Units (Total)

Total Credit Hours:

- Theory: 30 hours (120 study units)
- Practical (Laboratory): 60 hours (120 study units)

40.Course administrator's name (mention all, if more than one name)

Name: A.L Mohammed khalid a.l rana jehad Dr.rana_jehad@uruk.edu.iq
Email: muhammed.kh.makki@ur uk.edu.iq

41.Course Objectives

Course Objectives	Dental Anatomy provides comprehensive knowledge of the morphology and functions of teeth, which is essential for all aspects of dental practice. It is considered one of the fundamental courses in the pre-clinical dental curriculum. This course introduces students to the anatomical characteristics of both permanent and primary teeth. In addition, it aims to develop students' psychomotor skills necessary to restore teeth to their proper form and function. Through this course, students acquire the knowledge required to identify and differentiate teeth, diagnose dental anomalies, and manage or treat dental diseases. One of the main objectives of Dental Anatomy is to equip students with essential cognitive skills related to tooth development and morphology, thereby preparing them to reproduce proper tooth form in clinical procedures. Dental Anatomy provides this foundational knowledge through lectures and enhances students' manual dexterity through a series of projects, including two-dimensional drawing and wax tooth carving exercises.

42.Teaching and Learning Strategies

Strategy	1. Provide students with the skills to distinguish between different types of teeth through understanding their anatomical characteristics. 2. Develop students' skills in carving tooth forms using wax blocks. 3. Prepare students for clinical work by equipping them with the skills needed to reproduce tooth details using restorative (filling) materials.

43. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	1	1. The student acquires	Introduction	Teaching	Assessment

2 3 4 5	1 1 1 1	comprehensive knowledge of the anatomy, morphology, and function of teeth. 2. Emphasis is placed on tooth morphology and its importance in clinical applications, particularly in restorative dentistry. 3. The student gains sufficient knowledge to identify and differentiate teeth, diagnose dental anomalies, and manage dental diseases. 4. The student becomes familiar with the eruption times and arrangement of teeth in the oral cavity. 5. The student is able to organize and synthesize information in a way that enhances understanding and deepens knowledge in both theoretical and practical aspects.	Nomenclature Heterodent Diphyodont The Deciduous Teeth The Permanent Teeth Anterior and Posterio The Jaw Numbering Systems .1Universal notation .2Palmer notation sy .3FDI notation Enamel Cementum Dentin Dental pulp. Anatomical crown. Clinical crown Number of roots Teeth surfaces Crown and Root Division Contact areas Embrasure spaces Line angle Point angle Anatomical Landmar Cusp, Tubercle, Cing Fossa, Developmenta mamelons ,sulcus ,pe fissure, root trunk, fu periodontium: A. Alveolar Bone B. Tooth Root Surfac C. Periodontal ligame D. Gingiva E. Alveolar muc Permanent Maxillary Incisor Characteristic feature crown Permanent Maxillary Incisor Principal identifying)Labial Aspect ,Mesia Distal Aspect, Lingua Incisal	Method: Theoretical lectures delivered using PowerPoint presentations.	Methods: Includes daily quizzes, monthly evaluations, midterm examinations, and a final exam.

6	1				
7	1				
8			)Anomalies(Main Differences bet Maxillary Central and Incisors		
	1				
9					
	1		Main differences betv mandibular central ar		

			incisors		
10	1		Permanent Canines		
			General Characteristi		
			of the Canines		
			The Permanent Maxi		
11	1		Principal Identifying		
			The Permanent Mand		
	1		Canine		
			Principal Identifying		
12			Some differences bet		
	1		maxillary and n		
			Permanent Maxillary		
			Some characteristic f		
	1		all posterior teeth		
13			Maxillary First Preme		
			Principal identifying		
14	1		Maxillary Second Pre		
	1		Principal identifying		
			Some differences bet		
15			Maxillary First Preme		
			Maxillary Secor		
16					
17					
			Permanent Mandibula		
			Mandibular First Prer		
			Characteristics that re		
			those of the mandibul		
			Characteristics that re		
			those of the mandibul		
			premolar.		
			Principal Identi		
			Permanent Mandibula		
			Premolar		
			Principal Identifying		
			Some differences bet		
			Mandibular First Prer		
			Mandibular Sec		
			Permanent Maxillary		
			Maxillary First Molar		
			Principal Identi		

			Maxillary second Mo Principal Identifying Maxillary third Mola Principal Identi Permanent Mandibul Mandibular First Mol Principal Identifying Permanent Mandibul Molar Principal Identifying Mandibular Third Mo Principal Identi Tooth Development I Teeth Crown and Root Dev Steps Sequential Order of D Teeth and permanent According to their Er The Importance of De Teeth Principal Differences Deciduous and Perma Teeth Maxillary Deciduous Mandibular Dec Pulp Cavities Root canal types Pulp Shape in Anteri Pulp Shape in Premo Pulp Shape in Molars Pulp Cavities Shapes		

			Section of Teeth Occlusion Angle's classes of jaw relationships: A. Ideal Class I Occlu B. Class II Malocclus C. Class III Malocclu Types of anterior teet relationship: Types of Molars relat cross section: مقررات المختبر Description & Carvin Aspects & Finishing incisor Practical Training of central incisor. Practical Exam. Of C central incisor Descri labial & Mesial & Inc of P. Max. Right Can Practical Training. O Right Canine. Practical Exam. Of C Canine. Description & Carvin &Occlusal Aspects & Finishing Premolar. Practical Training of 1S Premolar. Practical Exam. of Ca 15 Premolar. Description & Carvin &Occlusal Aspects & Finishing Premolar. Practical Training. O Right 15 Premolar. Practical Exam. Of C		

			1St Premolar. Description & Carvin &Occlusal Aspects & Finishing molar. Practical Training of 15 molar. Practical Exam. of Ca 15 molar. Description & Carvin &Occlusal Aspects & Finishing molar. Practical Training of Right 1 molar. Practical Exam. of Ca 15 molar. Final Practical Exam.		

44.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

45.Learning and Teaching Resources

Required textbooks (curricular books, if any)	Woelfel's dental anatomy, its relevence to dentistry. by Rickne C Scheid. .2Wheeler's Atlas of Tooth Form By Major M Ash
Main references (sources)	
Recommended books and references (scientific journals, reports...)	
Electronic References, Websit	

Course Description Form (Practical)

46. Course Name:
Dental anatomy
47.Course Code:
104 DA
48.Semester / Year:
2025-2026
49.Description Preparation Date:
31-10-2025
50.Available Attendance Forms:
Attendance in the classroom for the theoretical and laboratory sessions.
51.Number of Credit Hours (Total) / Number of Units (Total)
Total Credit Hours: • Theory: 30 hours (120 study units) • Practical (Laboratory): 60 hours (120 study units)
52.Course administrator's name (mention all, if more than one name)
Name: Email: A.L Mohammed khalid a.l rana jehad muhammed.kh.makki@uruk.edu.iq Dr.rana_jehad@uruk.edu.iq
53.Course Objectives

Course Objectives	Dental Anatomy Dental Anatomy provides comprehensive knowledge of the morphology and functions of teeth, which is essential for all aspects of dental practice. It is considered one of the fundamental courses in the pre-clinical dental curriculum. This course introduces students to the anatomical characteristics of both permanent and primary teeth. In addition, it aims to develop students' psychomotor skills necessary to restore teeth to their proper form and function. Through this course, students acquire the knowledge required to identify and differentiate teeth, diagnose dental anomalies, and manage or treat dental diseases. One of the main objectives of Dental Anatomy is to equip students with essential cognitive skills related to tooth development and morphology, thereby preparing them to reproduce proper tooth fo

	Dental Anatomy provides this foundational knowledge through lectures and enhances students' manual dexterity through a series of projects, including two-dimensional drawing and wax tooth ca

54.Teaching and Learning Strategies

Strategy	Course-Specific Skills: 1. Provide students with the skills to distinguish between different types of teeth through understanding their anatomical characteristics. 2. Develop students' skills in carving tooth forms using wax blocks. 3. Prepare students for clinical work by equipping them with the skills needed to reproduce tooth details using restorative (filling) materials

55. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
			Description & Carving of the Labial & Incisal Aspects & Finishing of P. Max. Right central incisor Practical Training of Carving of P. Max. Right central incisor. Practical Exam. Of Carving of P. Max. Right central incisor Description & Carving of the labial & Mesial & Incisal Aspects & Finishing of P. Max. Right Canine. Practical Training. Of Carving of P. Max. Right Canine. Practical Exam. Of Carving of P. Max. Right Canine. Description & Carving of the Buccal & Mesial & Occlusal Aspects & Finishing of P. Max. Right 1St Premolar. Practical Training of Carving of P. Max. Right 1S Premolar. Practical Exam. of Carving of P. Max. Right 15 Premolar. Description & Carving of the Buccal & Mesial & Occlusal Aspects & Finishing of P. Mand. Right 1» Premolar. Practical Training. Of Carving of P. Mand. Right 15 Premolar. Practical Exam. Of Carving of P. Mand. Right 1St Premolar. Description & Carving of the Buccal & Mesial & Occlusal Aspects & Finishing of P. Max. Right 1St		

			molar. Practical Training of Carving of P. Max. Right 15 molar. Practical Exam. of Carving of P. Max. Right 15 molar. Description & Carving of the Buccal & Mesial & Occlusal Aspects & Finishing of P. Mand. Right 1St molar. Practical Training of Carving of P. Mand. Right 1 molar. Practical Exam. of Carving of P. Mand. Right 15 molar.		

56. 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

57. Learning and Teaching Resources

Required textbooks (curricular books, if any)	1. Woelfel's dental anatomy, its relevence to dentistry. By Rickne C Scheid. 2. Wheeler's Atlas of Tooth Form By Major M Ash.
Main references (sources)	
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	

58. Course Evaluation

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

59. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Contemporary Fixed Prosthodontics
Main references (sources)	
Recommended books and references (scientific journals, reports...)	Fundementals of fixed prosthodonti
Electronic References, Websites	Any videos available on youtube

Course Description Form (Theoretical)

60. Course Name: medical chemistry

61. Course Code: 106CH

62. Semester / Year: year

63. Description Preparation Date:28\10\2025

64. Available Attendance Forms: Attendance in the classroom for the theoretical subject

65. Number of Credit Hours (Total) / Number of Units (Total):60 h , 4 unit

66. Course administrator's name (mention all, if more than one name)

Name: Lec. Dr. Raheem S. Jebur
Email: raheem.s.jebur@uruk.edu.iq

67. Course Objectives

Course Objectives	The medical chemistry lesson aims to distinguish the basics of chemistry in all its inorganic, organic, and semiotic fields and its connection to dentistry.

68. Teaching and Learning Strategies

Strategy	• Lectures using Point power • Show educational videos. • Guiding students to some websites to benefit from them. • Follow up on students' way of thinking, their ways of expression, and their speed of response through strategic scientific discussions

69. Course Structure

Week	**Hours**	Required Learning Outcomes	**Unit or subject name**	**Learning method**	**Evaluation method**
1- 2- 3- 4-	2	Acid, Base and Salt preparation of salts Fluid and electrolyte Buffer-pH and Acid-Base Balance acid-base balance and blood pH Colloids and colloidal dispersions	Medical Chemist	Theoretical lecture using the program Power point.	Daily, monthly and semi-exams Annual final

5- 6- 7- 8- 9- 10- 11- 12- 13- 14- 15- 16- 17- 18- 19- 20- 21- 22- 23- 24- 25- 26-		Chirality in Biological systems(Molarity Molar concentration Pollution Radiochemistry Alkanes and Cycloalkane Alkenes and Alkynes Aromatic compounds Aromatic compounds Nature Stereoisomers of Carbon Diastereomers Phenols(preparation, reactions) Carboxylic Acids And Their Derivatives Amides Aldehydes and ketones Carbohydrates Monosaccharide's Disaccharides Lipids Derived lipids Proteins and Amino Acid Amino acids Nucleic Acids			

27- 28- 29-		Nucleosides, Nucleotides Dioxy and ribo Nucliec acids			

70.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

half the year %15

%25annual course (includes daily and monthly exams and practical requirements)
20 final practical exam 40% final theoretical exam

71.Learning and Teaching Resources

Required textbooks (curricular books, if any)	The Chemical Basis Of • Life :General ,Organic, and Biologigal Chemistry for the Health Sciences By George H.Schmid
Main references (sources)	A text-book of macro and semimicro qualitative inorganic analysis. Fifth Edition Revised by G. Svehla, Ph. D., D. Sc., F. R. I. C Reader in Analytical Chemistry, Queen's University, Belfast
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	

Course Description Form (Practical)

72.Course Name: medical chemistry

73.Course Code: 106CH

74.Semester / Year: Year

75.Description Preparation Date:28\10\2025

76.Available Attendance Forms: Attendance in laboratories for the practical subject

77.Number of Credit Hours (Total) / Number of Units (Total) :60h,2 units

78.Course administrator's name (mention all, if more than one name)

Name: Aliaa Hashem Faraj

Email : aliaa.h.farag@uruk.edu.iq

79.Course Objectives

Course Objectives	•Prepare the student practically in terms of applying the acquired knowledge •Thinking about solving problems. •Developing the student's ability to deal with multiple means of learning •Identify the nomenclature of chemical compounds •Identify chemicals and their dangers •The medical chemistry lesson aims to identify the basics of chemistry in all its inorganic, organic and biological fields and its connection to dentistry

80.Teaching and Learning Strategies

Strategy	1 Enhancing thinking skills through problem-based learning. 2 Acquiring the basic principles stipulated in the learning curriculum. 3 Developing the student's ability to discuss and dialogue

81. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1-	2	Safety of chemicals part1	Medical chemistry	Explain the theoretical part using Power point Then apply the part Practical	Short exams, evaluation of the practical part, and the final exam

		Safety of chemicals part2			
2-		Action of Strong Base and Acids			
3-		Solubility rules and Applications (Solubility rules of salts).			
4-		Test for negative ions (Anions).part 1			
		Test for negative ions (Anions). part 2			
5-		PH meter			
6-		Test for positive ions (Cations). part 1			
7-		Test for positive ions (Cations). part 2			
8-		Titration			
		Hydrocarbons			
9-		Aliphatic Hydrocarbons			
10-		Aromatic hydrocarbons Part.1			
11-		Aromatic hydrocarbons			
12-		Part.2			
13-		Preparation of aspirin			
		Alcohol			
14-		Phenols reactions			

15- 16- 17- 18- 19- 20-		Aldehydes and ketones Carboxylic Acids reactions part 1 Carboxylic Acids reactions part 1 Carbohydrates reactions part 1 Monosaccharides reactions Disaccharides reactions Lipids reactions part 1 Lipids reactions part 2 Proteins reactions Amino acids reactions Paper chromatography part 1 Paper chromatography part 2 osmosis			

2.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 10 %annual endeavor (includes daily and monthly exams and practical requirements) 20% final practical exam

83. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	The Chemical Basis Of Life :General ,Organic, and Biological Chemistry for the Health Sciences By George H.Schmid

Main references (sources)	Practical Organic And BIO- Chemistry BY R. H. A. PLIMINER Reader in Physiological Chemistry, University of London, University College A text-book of macro and semimicro qualitative inorganic analysis . Fifth Edition Revised by G. Svehla, Ph. D., D. Sc., F. R. I. C Reader in Analytical Chemistry, Queen's University, Belfast
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	

Course Description Form (Theoretical)

1. Course Name: Medical Biology

2. Course Code: 108 BL

3. Semester / Year: 2025-206

4. Description Preparation Date: 28.10.2025

5. Available Attendance Forms: Student attendance at 100%

6. Number of Credit Hours (Total) / Number of Units (Total)

60 hours of theory and 60 hours of practical work

7. Course administrator's name (mention all, if more than one name)

Name: Hameeda Mohammed Hassan Email: hameeda.mhasan@uruk.edu.iq

Shahad Faiz Abed **Email:** shahad.f.abed@uruk.edu.iq

8. Course Objectives

Course Objectives	**Demonstrating the fundamental knowledge and principles of medical biology** **– Conducting scientific experiments to test theoretical concepts** **– Preparing illustrative aids** **– Preparing concise reports**

9. Teaching and Learning Strategies

Strategy	- Theoretical lectures - Conducting scientific experiments - Reading textbooks - Participating in scientific discussions

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2	Knowledge and Understanding - Teaching the student the relationship between life sciences and	**Medical biology:** : Definitions of biology, Branches of biology, Taxonomy, Prokaryotic cells, Eukaryotic cells, Classification of modern human.	Theoretical lecture using Power Point	Short exams, term exams, mid-year exams, and final exams
2	2		**Bacteria:** Definitions of Bacterial shapes, Flagellar arrangements, Fimbriae and pili, Bacterial structure, cell wall composition,	Theoretical lecture using	Short exams, term exams, mid-year

		humans - Understanding the impact of life sciences on physical health - The relationship between parasitology and cell biology and human diseases - The relationship between genetics and human health - The relationship between histology and humans - The relationship between cell biology and blood	Division , conjugation, Sporulation cycle, Bacterial diseases, Viruses and bacteriophages.	Power Point	exams, and final exams
3	2		**Cell biology and structure (Part 1)**: Definitions of Levels of structural complexity, Cytology and cell biology, The cell theory, The microscope.	Theoretical lecture using Power Point	Short exams, term exams, mid-year exams, and final exams
4	2		**Cell biology and structure (Part 2)**: Definitions of Cell membrane, Nucleus, Nucleolus, Ribosomes, Vesicles, Rough E.R., Smooth E.R., Golgi apparatus, Cytoskeleton, Mitochondria, Vacuoles, Cytosol, Lyzosomes, Centrosomes.	Theoretical lecture using Power Point	Short exams, term exams, mid-year exams, and final exams
5	2		**Specialization in plasma membrane**: Definitions of Types of cell junctions, Junction functions, Microvilli, Extracellular matrix, Chemistry of cell, Nucleic acid structure.	Theoretical lecture using Power Point	Short exams, term exams, mid-year exams, and final exams
6	2		**Passage of materials across the cell membrane**: Definitions of Types of passive passage, Isotonic, hypertonic, and hypotonic passages, Active passage (transport), Endocytosis, Pinocytosis, Receptor-mediated endocytosis, Exocytosis.	Theoretical lecture using Power Point	Short exams, term exams, mid-year exams, and final exams
7	2		**Immunology**: Definitions of Non-specific immunity, Specific immunity, Acquired immunity, Primary response and secondary response to infection, Humoral immunity, Cellular immunity, Cells of immune system, Complement system.	Theoretical lecture using Power Point	Short exams, term exams, mid-year exams, and final exams
8	2		**Cell cycle**: Definitions of Types of cell division, Stages of mitotic division, Stages of meotic division, Spermatogenesis, Oogenesis.	Theoretical lecture using Power Point	Short exams, term exams, mid-year exams, and final exams
9	2		**Cell energy**: Definitions of Classification of living organisms according to how carbon and energy obtained, Photosynthesis (light and dark reactions), Production of energy from ATP, Glycolysis, Krebs cycle, Oxidative phosphorylation.	Theoretical lecture using Power Point	Short exams, term exams, mid-year exams, and final exams
10	2		**Epithelial tissues**: Definitions of Characteristics, Simple squamas, Simple cuboidal, and simple columnar epithelial tissues, Stratified squamas, and stratified cuboidal epithelium, Pseudostratified columnar epithelium.	Theoretical lecture using Power Point	Short exams, term exams, mid-year exams, and final exams
11	2		**Glandular tissue:** Definitions of Classification of glands, Exocrine glands, Endocrine glands, Compound multicellular glands, Holocrine glands, Seromucous glands, Salivary glands, Functions of saliva, Types of salivary glands	Theoretical lecture using Power Point	Short exams, term exams, mid-year exams, and final exams
12	2		**Connective tissues (part 1)**: Definitions of Function, Characteristics, Structural elements, cells of connective tissues, loose connective tissues, Dense connective tissues.	Theoretical lecture using Power Point	Short exams, term exams, mid-year exams, and final exams
13	2		**Connective tissues (part 2)**: Definitions of Specialized C.T., Hyaline cartilage, Fibro cartilage, Elastic cartilage, Bones (compact and spongy), Blood cells, Plasma, Lymph, Function of blood, Hemopoetic tissues.	Theoretical lecture using Power Point	Short exams, term exams, mid-year exams, and final exams

14	2		**Mascular tissues**: Definitions of Characteristics, Function, Cell morphology, Terminology, Structure, Skeletal muscles, Cardiac muscles, Smooth muscles.	Theoretical lecture using Power Point	Short exams, term exams, mid-year exams, and final exams
15	2		**Nervous tissues**: Definitions of Components, Function, Location, Neuron and ganglia, Schwann cell (structure and function), Types of neurons, Meninges.	Theoretical lecture using Power Point	Short exams, term exams, mid-year exams, and final exams
16	2		**Parasitology**: Definition, Types of parasites, Types of hosts, Host-parasite relationships, Types of symbiotic association, Classification and general characteristics, Endoparasites, Ectoparasites.	Theoretical lecture using Power Point	Short exams, term exams, mid-year exams, and final exams
17	2		**Introduction to Human Genetics:** Definition , Genetics, Chromatid, Human chromosome chromatid& centrosome, Centromere, Chromatin, Histones, Genes, Genome, Genetic variation, Allele, Dominant allele, Homozygous, Genotype	Theoretical lecture using Power Point	Short exams, term exams, mid-year exams, and final exams
18	2		**Stem Cell**: Definition, Sources of stem cells, Type of Stem cells, Embryonic stem cell,Somatic stem cell, Advantage of stem cell, Dis advantage of stem cell, Applications of Stem Cell	Theoretical lecture using Power Point	Short exams, term exams, mid-year exams, and final exams
19	2		**Protozoa**: Definition, structure, nutrition, locomotion, Human amoebas, *Entamoeba histolotica, -Entamoeba coli, -Entamoba gingivalis*	Theoretical lecture using Power Point	Short exams, term exams, mid-year exams, and final 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)	**Foundations of Systems biology, Hiroaki Kitano (ed.), 2001**
Main references (sources)	**Molecular Cell Biology, 5th ed. Harvey Lodish *et al***
Recommended books and references (scientific journals, reports…)	**Histology and Cell Biology, 2nd ed. Kurt E. Johonson**
Electronic References, Websites	**Word of Microbiology and Immunology 2nd ed. Brigham Narins (ed.)**

Course Description Form (Practical)

Laboratory sessions

Lab number	Study unit title	Hours
1	Laboratory safety	2
2	Parts of microscope	2
3	Types of cells	2
4	Simple epithelial tissue	2
5	Stratified epithelia tissue	2
6	Glandular epithelial tissue	2
7	Serous, Mucous, Sero-mucous cell glands	2
8	Proper connective tissue, Loose	2
9	Proper connective tissue, dense	2
10	Special connective tissue, type of cells	2
11	Cartilage, Hyaline, Elastic, Fibro	2
12	Compact and spongy bone	2
13	Human Blood, W.B.C , R.B.C and frog blood	2
14	Muscular tissue: Skeletal, cardiac and smooth muscles	2
15	Nerve cell	2
16	Central and peripheral nerve system	2
17	Spinal cord and meninges	2
18	Entamoeba histolytica , Entamoeba coli	2
19	Giardia lamblia , Trichomonas vaginalisTrichomonan tenax	2
20	Leishmania tropica,Leshmania donovani	2
21	Trypanosoma gambiense,T.rhodesiense	2
22	Plasmodium vivax, Toxoplasma gondii	2
23	Balantidium coli	2
24	Echinococcus granulosus,Taenia saginataTaenia solium	2
25	Ancylostoma, Ascaris , Entrobius	2
26	Schistosoma spp, Fasciola hepatica	2
27	Endoskeleton of frog	2
28	Experiment...examine samples of water	2
29	Experiment...examine samples of water (one hour),	2
30	Experiment ...Blood groups	2
Total		60

Course name: Medical physics
Course code: PS 107
Year :
2024-2025
Date:
/5/2025
5. Available forms of attendance:
Attendance at full-time, permanent, with entry to the laboratory
6. Number of study hours (total/number of units (total):)
60 theoretical hours / 240 theoretical credits
7. Name of the course administrator (if more than one name is mentioned)
Prof. Dr. Orouba Jamil Tarish
8. course objectives

• Enable the student to know the physical ideas related to the human body • Physical functions and organs of the human body and medical applications in diagnosis and treatment, description and application • Theoretical and practical mastery of the prescribed curriculum vocabulary	Objectives

Teaching and learning strategies .9	
The relationship of physics to humans 2- Physical effects within the human body Physical applications on -3 the human body for diagnosis and treatment. 4- Improving the performance of the human body through physical means The relationship of all -5 this information to human health 6- Lectures and discussion to consolidate ideas 7- Experiments, laboratories, and preparing reports 8- Using e-learning	Strateg

. 10. Course structure					
Theoretical or practical topic	Learning method Unit name	Evaluation method or	Required learning outcomes	Hours	week
Short exams, and Quarterly, mid-year and final	Explain the theoretical part using powerpoint Then apply the part Practical t	Medical physics	**Terminology** Terms: Medical Physics, physical medicine, Physical therapy, Health Physics, Radiological Physics, clinical physics. Modeling, Accuracy, Precision, False Positive, False Negative.	2	1 + 2
Short exams, and Quarterly, mid-year and final	Explain the theoretical part using powerpoint Then apply the part Practical	Medical physics	***Force on &in body:*** Static forces :(type of levers with medical examples). Dynamic forces (Centrifuge	2	3 + 4
Short exams, and Quarterly, mid-year and final	Explain the theoretical part using powerpoint Then apply the part Practical	Medical physics	***Physics of the skeleton:*** Bones:(Function of bones, Composition of bone, bone remodeling, compact and trabecular bone) Stress-strain curve :(compressive and tensile stress, young modulus). Bone joints :(Synovial fluid, coefficient of a joint).	2	5 + 6
Short exams, and Quarterly, mid-year and final	Explain the theoretical part using powerpoint Then apply the part Practical	Medical physics	***Heat and cold in medicine:*** Physical basis of heat and temperature, Temperature scales, Converting Temperatures, Temperature in Dentistry, Thermal expansion, (Linear, Area, Volume Thermal Expansion), Thermometry, Heat therapy, Thermography, Cold in medicine and cryosurgery. Thermal conductivity.	2	7 + 8
Short exams, and Quarterly, mid-year and final	Explain the theoretical part using powerpoint Then apply the part Practical	Medical physics	***Energy, work and power of the body:*** First law of thermodynamic. Energy change in the body (Met, Basal metabolic rate (BMR). Work and power.		

				Efficiency heat losses from the body. Anaerobic phase and aerobic phase. Hypothalamus (body's thermostat).Heat lost by (radiation, convection,	2	9 + 10

			evaporation of sweat and respiration).		
Short exams, and Quarterly, mid-year and final	Explain the theoretical part using powerpoint Then apply the part Practical	Medical physics	***Pressure:*** Definition, absolute pressure, gauge pressure, negative pressure, unit of pressure. Measurement of pressure in the body (Manometer).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).	2	11 + 12
Short exams, and Quarterly, mid-year and final	Explain the theoretical part using powerpoint Then apply the part Practical	Medical physics	***Electricity within the body:*** Electrical potential of nerves (resting potential, action potential in myelinated and unmyelinated nerves) Electromyogram (EMG). Electrical potential in the heart (electrocardiogram ECG). Electroencephalogram (EEG)	2	-1413
Short exams, and Quarterly, mid-year and final	Explain the theoretical part using powerpoint Then apply the part Practical	Medical physics	***Sound in medicine:*** Properties of sound. Stethoscope (including heart sound).mechanism of hearing	2	15 + 16
Short exams, and Quarterly, mid-year and final	Explain the theoretical part using powerpoint Then apply the part Practical	Medical physics	***Ultrasound*** (A-scan, B-scan, M-scan and Doppler effect). Physiological effect of ultrasound in therapy	2	17 + 18

Short exams, and Quarterly, mid-year and final	Explain the theoretical part using powerpoint Then apply the part Practical	Medical physics	***Light in medicine:*** Light nature, Planck Equation, (Reflection, Refraction and Absorption of Light, Properties of light), Diffuse reflection, Specular reflection, Phototherapy, Application of ultraviolet and infrared light in medicine, Tanning and Skin Cancer.	2	19+20
Short exams, and Quarterly, mid-year and final	Explain the theoretical part using powerpoint Then apply the part Practical	Medical physics	***Laser in medicine***. What is laser? Application of laser in medicine Atomic Transitions, Population inversion, Laser Typical Characteristics, General Applications of Laser, Laser Dental	2	21 + 22

			Applications, Reshape gum tissue, Laser aided teeth whitening, Laser Drill.		
Short exams, and Quarterly, mid-year and final	Explain the theoretical part using powerpoint Then apply the part Practical	Medical physics	***Physics of eye and vision:*** Focusing element of the eye (cornea, lens). Element of the eye (pupil, aqueous humor, vitreous humor, sclera).Visual acuity, Snellen chart, optical density.	2	23+24
Short exams, and Quarterly, mid-year and final	Explain the theoretical part using powerpoint Then apply the part Practical	Medical physics	***Physics of diagnostic X-ray:*** Properties of X-ray, production of X-ray. Absorption of X-ray, contrast media-ray image (penumbra, grid, and intensifying screens).Radiation to patients from X-ray (filters).	2	25+26
Short exams, and Quarterly, mid-year and final	Explain the theoretical part using powerpoint Then apply the part Practical	Medical physics	***Physics of nuclear medicine:*** Radioactivity decay, half-life, units. Basic instrumentation and its medical application (GM-tube, Photomultiplier tube, scintillation detector, solid state detector).Therapy with radioactivity. Radiation doses in nuclear medicine.	2	27+28
Short exams, and Quarterly, mid-year and final	Explain the theoretical part using powerpoint Then apply the part Practical	Medical physics	***Physics of radiation therapy:*** The dose units (Rad and Gray).Principles of radiation therapy. Brach therapy, quality factor (QF).	2	29+30

. 11. Course evaluation

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

half the year %15

annual tuition (includes summer training, daily and monthly exams, and practical requirements) %25

60

	%20 final practical exam 40% final theoretical exam
. 12. Learning and teaching resources	
• Medical Physics by John Cameron • Physics of the human body by Irving Herman	Required textbooks (methodology, if any)
• physics for scientists and engineer, Raymond A, serway, 1987.	Recommended supporting books and .....references (scientific journals, reports)
•	

Second stage

Course description

Course Title	Prosthodontics
Course Code	210PR
Semester / Year	Annual
Date of Course Description Preparation	2025–2026
Available Attendance Modes	Lectures and Laboratory
Total Contact Hours	30 hours theoretical + 60 hours practical
Total Credit Units	60 credit units
Course Coordinators	Asst. Lecturer Samar Sabah Alwan (theortical) Asst. Lecturer Yasser Mohammed Al-Shammaa (practical)
Email	samar_s_alsaffar@uruk.edu.iq Yassirmohamed@uruk.edu.iq
Course Objectives	• To introduce Dental Technology as a core subject studied over four academic years. • To familiarize students with the terminology used in the course for proper understanding. • To explain the practical steps involved in complete denture fabrication.
Teaching and Learning Strategies	• E-learning • PowerPoint-based lectures • Educational videos • Student interaction and brainstorming
Course Assessment	Marks are distributed out of 100 according to assigned tasks such as daily preparation, quizzes, oral, monthly and written exams, and reports. • Mid-year exam: 15% • Continuous assessment (including summer training and practical requirements): 25% • Final practical exam: 25% • Final theoretical exam: 35%
Learning Resources	Required textbooks: • Textbook of Complete Denture, 6th edition (2009) • Dental Laboratory Technology for Removable Prosthodontics

	Main references: • Textbooks and internet sources Recommended journals and articles: • Dental Clinics of North America • Yamashita S, Shimizu M, Katada H. A newly proposed method to predict optimum occlusal vertical dimension. Journal of Prosthodontics, 2015. Electronic resources: • Classification System for Complete Edentulism (Wiley Online Library)

Course Structure

Assessment Method	Teaching Method (Theoretical/Practical)	Unit / Topic Title	Hours	Week
Daily, monthly, midterm and final exams	Theoretical	Introduction to Complete Denture: objectives, general considerations, components of complete denture, maxillary anatomical landmarks	2	2 + 1
Daily, monthly, midterm and final exams	Theoretical	Mandibular anatomical landmarks, supporting structures, limiting structures, relief areas	2	4 + 3
Daily, monthly, midterm and final exams	Theoretical	Impression tray: definition, parts, types, selection criteria	2	6 + 5
Daily, monthly, midterm and final exams	Theoretical	Special tray: advantages, materials, types, construction techniques, criteria; complete denture impression (conventional and digital)	2	6 + 5
Daily, monthly, midterm and final exams	Theoretical	Temporomandibular joint (TMJ): definition, ligaments, muscles, mandibular movements	2	8 + 7
Daily, monthly, midterm and final exams	Theoretical	Recording vertical dimension at rest and occlusion; pre-extraction and post-extraction records	2	10 + 9
Daily, monthly, midterm and final exams	Theoretical	Dental articulators: definition, functions, requirements, types; face-bow and its importance	2	11 + 12
Daily, monthly, midterm and final exams	Practical	Mounting casts on articulator and common errors	1	13
Daily, monthly, midterm and final exams	Theoretical	Selection of anterior teeth: shade, size, form, materials	1	14
Daily, monthly, midterm and final exams	Theoretical	Selection of posterior teeth	2	15 + 16

Daily, monthly, midterm and final exams	Theoretical	Arrangement of artificial anterior teeth	2	17 + 18
Daily, monthly, midterm and final exams	Theoretical	Arrangement of posterior teeth, occlusal curves, common errors	1	19
Daily, monthly, midterm and final exams	Theoretical / Practical	Waxing and carving, complete denture occlusion, try-in appointment	3	20–22
Daily, monthly, midterm and final exams	Practical	Processing of complete denture (flasking techniques)	1	23
Daily, monthly, midterm and final exams	Practical	Occlusal correction, finishing and polishing	2	24 + 25
Daily, monthly, midterm and final exams	Practical	Repair of complete denture: causes, materials, procedures	1	26
Daily, monthly, midterm and final exams	Practical	Replacement of missing or fractured denture parts	2	27 + 28
Daily, monthly, midterm and final exams	Practical	Relining and rebasing: indications and contraindications	1	29
Daily, monthly, midterm and final exams	Practical	Laboratory and chair-side relining and rebasing procedures	1	30

Course Description Form (Theoretical)

Course Name: human anatomy
Course Code: 201 AN
Semester / Year: 2025-2026
Description Preparation Date: 4-10-2025
Available Attendance Forms:
Number of Credit Hours (Total) / Number of Units (Total)
13.Course administrator's name (mention all, if more than one name)
Name: Assist. Prof. Khaleel A. Hassoon------Lecturer: Atheer Ali Email: khaleelian @yahoo.com
14.Course Objectives

Course Objectives	

15.Teaching and Learning Strategies	
Strategy	

16. Course Structure

Week	**Hours**	**Required Learning Outcomes**	**Unit or subject name**	**Learning method**	**Evaluation method**
1	1theory and 2 2 practical		Scalp	P0wer point	QUI
2	=		Face	=	=
3	=		Parotid	=	=
4	=		External carotid art branches	=	=

5	=		Temporal a infratemporal fossa	=	=
6	=		Mandibular nerve	=	=
7	=		Maxillary artery	=	=
8	=		Pterygopalatine fossa	=	=
9	=		Temporomandibular joint	=	=
10	=		Nasal cavity	=	=
11	=		Oral cavity	=	=
12	=		Orbit	=	=
13	=		Neck	=	=
14	=		Lymph of the neck	=	=
15	=		Blood supply of the and neck	=	=

17.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

18.Learning and Teaching Resources

Required textbooks (curricular books, if any)	Snell clinical anatomy
Main references (sources)	
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	

1. Course Evaluation

15% for the semester
Annual study (including summer training, daily and monthly exams, and practical requirements)
25% for the final practical exam
40% for the final theoretical exam

1. Learning and Teaching Resources

Required textbooks (curricular books, if any)	These are the standard and most widely used references: 1. **Phillips' Science of Dental Materials** o *By Kenneth J. Anusavice, Chiayi Shen, H. Ralph Rawls* o Latest Edition: 13th (Elsevier) o 📚 *The most comprehensive and authoritative textbook cover the physical, chemical, and mechanical properties of den materials.* 2. **Craig's Restorative Dental Materials** o *By Ronald Sakaguchi & John Powers*

	○ Latest Edition: 14th (Elsevier) ○ 📄 Focuses on restorative materials and clinical applicati with strong scientific explanations. ○ 📄 Suitable for students needing practical, clinical-le understanding of material handling and application.
Main references (sources)	**Dental Materials: Clinical Applications for Dental Assistants and Den Hygienists** ○ *By Carol Dixon Hatrick, W. Stephen Eakle, William F. Bird* ○ Latest Edition: 4th (Elsevier)
Recommended books a references (scientific journals, reports...)	
Electronic References, Websites	

Course Description Form (Theoretical)

84.Course Name:	
Dental material	
85.Course Code:	
209 DM	
86.Semester / Year:	
2025-2026	
87.Description Preparation Date:	
26-10-2025	
88.Available Attendance Forms:	
Attendance in the classroom for theoretical material and laboratories	
89.Number of Credit Hours (Total) / Number of Units (Total)	
30 hours/60 credit hours 150 practical hours (6 credit hours)	
90.Course administrator's name (mention all, if more than one name)	
Name: mohammed s.khalil Email: drm60033@gmail.com	
91.Course Objectives	
Course Objectives	**Knowledge Objectives:** To understand the physical, chemical, mechanical, and biological properties of dental materials. To learn about the composition, setting reactions, and classification of materials used in restorative, prosthodontic, endodontic, orthodontic, and preventive dentistry. To understand the factors that affect material performance, such as temperature, moisture, and stress. Skill Objectives: To develop the ability to handle and manipulate dental materials correctly according to manufacturer instructions and clinical requirements. To perform laboratory and clinical procedures involving various materials (e.g., impression making, casting, bonding, etc.).

	Clinical Objectives: To be able to select the appropriate material for each clinical situation based on its properties and patient needs. To understand the biocompatibility and safety considerations of material in the oral environment. Ethical and Professional Objectives: To encourage critical thinking and evidence-based selection of materials To promote awareness of new technologies and advances in den materials science.
. Teaching and Learning Strategies	
Strategy	The strategy of the Dental Materials course is to combine theoretical knowledge witl practical application to ensure students understand both the science and the clinical u of dental materials. The course emphasizes active learning, critical thinking, and han on experience through the following approaches: Lectures and Multimedia Presentations: Deliver foundational knowledge about the composition, properties, and uses of denta materials. Supported with visual aids, videos, and case examples to enhance understanding. Laboratory Sessions: Provide students with direct experience in handling, mixing, manipulating, and testir various dental materials. Encourage the development of manual dexterity and technical competence. Demonstrations and Simulations: Instructors demonstrate proper techniques and procedures before student practice. Use of simulation models to replicate clinical conditions. Group Discussions and Problem-Based Learning: Encourage teamwork and the application of theoretical knowledge to solve clinical problems. Develop communication and analytical skills. Assignments and Reports: Reinforce theoretical concepts through research, reflection, and written documentatic Assessments: Regular quizzes, practical evaluations, and final examinations to assess both cognit and psychomotor learning outcomes.
93.Course Evaluation	
15% for the semester Annual study (including summer training, daily and monthly exams, and practical requirements) 25% for the final practical exam 40% for the final theoretical exam	
94.Learning and Teaching Resources	
Required textbooks (curricular books, if any)	Endodontics, Engel, Pulp Pathways, Wayne Contemporary Fixed Prosthodontics Basic Considerations in Fixed Prosthodontics. Theoretical and clinical training on the use of various materials and techniques fixed prosthodontics. Fixed and Removable Prosthodontics
Main references (sources)	Fundamentals of fixed prosthodontics. Theoretical and clini training on the use of various materials and techniques in fi

	prosthodontics. Fixed and removable prosthodontics.
Recommended books and references (scientific journals, reports...)	
Electronic References, Website	

No.	Title Of The Lectures	Subtitles	Hours
1	Introduction and physical properties of dental material	• Introduction to dental materials • Physical, chemical and biological properties of dental materials • Mechanical properties	1
2	Mechanical properties	• Definition, requirement, types • gypsum bonded investment • phosphate bonded investment • ethyl silicate bonded	1
3	Gypsum materials	• Definition • Ideal properties of • Classification of impression materials ➢ Non elastic impression materials ➢ Impression plaster ➢ Impression compound ➢ Zinc oxide - eugenol ➢ Elastomeric impression material	1
4	Gypsum materials		1
5	Impression materials		
6	Impression materials		1
7	Impression materials		1
8	Impression materials		1
9	Impression materials		1
10	Waxes	• Definition, • Requirements, classification of wax according to origin & melting point, • classification of wax according to uses,	1

		• properties of dental	
11		Waxes	1
12	Polymers	• Polymers and polymerization • Definition of polymer, co-polymer, cross-link polymer and Degree of polymerization • Factors which control structure and properties of polymer • Types of polymerization ✓ Heat activated acrylic ✓ Composition ✓ Properties ✓ Chemically activated resin ✓ Composition ✓ Properties ✓ Light activated resin ✓ Composition ✓ Properties • Chemically activated resin compared to heat activated resins • Polymers used in dentistry • Processing errors	1
13		Polymers	1
14	Investment materials	• factors affecting setting time, setting expansion, strength, storage and manipulation of gypsum products, and hygroscopic expansion	1
15	Cement materials	• Classification of dental cements • Definition • Requirements	1
16	Temporary filling	• Definition • indication • Types • Requirements	1
17	Metal and metal alloy	• Metallic denture base materials ✓ Types of metal and metal alloys ✓ Definition of alloy	1

		✓ Requirement of casting alloy ✓ Application of dental alloy ✓ classification of metal classification of dental alloy ✓ gold (advantage), gold alloy, non-gold alloys ✓ Composition ✓ Properties	
18		Metal and metal alloy	1
19	Metal and metal alloy	• Alternative of gold alloy ✓ Metal ceramic alloys ✓ Requirement ✓ Types ✓ Removable denture base alloys ✓ Requirements ✓ Types ✓ Co-Cr Alloy ✓ Application ✓ Composition ✓ Properties ✓ Advantages ✓ Disadvantages	1
20	Metal and metal alloy	• Titanium and Titanium alloys ✓ Applications ✓ Properties ✓ Ni/Cr alloys ✓ Composition ✓ Indications ✓ Wrought stainless steel alloy	1
21	Filling materials	• Direct filling material • Definition • Factors causing loss	1
22	Filling materials		1
23	Filling materials		1

24	Filling materials		1
25	Preventive materials	• Preventive materials	1
26	Root canal filling materials (obturation materials)	• Root canal filling materials (obturation materials)	1
27	Finishing and polishing materia	• Finishing and polishing material	1
28	Relining material	• Definition • Types • Requirements • Indication • Soft liners ✓ Types ✓ Requirements ✓ Indication ✓ Properties	1
29	Implant materials	• Implant materials	1
30	Maxillofacial materials	• Maxillofacial materials	1
		Total	30

Laboratory sessions

No.	Title of lab.	Hours
1	Introduction and physical properties of dental material	2
2	Mechanical properties (stress strain curve)	2
3	Showing different types of gypsum materials (plaster and stone)	2
4	Steps of mixing plaster and demonstrate the steps of setting	2
5	Impression plaster, demonstrate the manipulation of impression compound	2
6	Zinc oxide impression material and agar impression demonstrate the mixing of z oxide impression	2
7	Alginate impression (elastic impression) showing the trays used and manipulation of water according to manufacturer instructions	2
8	Polysulphide, condensation and addition silicon/mixing of heavy body and li body	2
9	Polyether, digital impression, digital impression	2
10	Showing different types of wax (denture base plate, denture casting wax and othe	2
11	Demonstrate how to use wax material and its manipulation	2

12	Introduction to polymers	2
13	Different types of denture base material heat, cold and light activated polyr demonstrate the mixing of polymer and monomer	2
14	Thermoplastic polymers (flexible denture base material)	2
15	Investment materials (showing the method of the investment)	2
16	Introduction to cement materials	2
17	Showing different types of cement materials and the method of mixing of cement	2
18	Temporary filling (use and manipulation)	2
19	Introduction of metal and alloy	2
20	Showing the different types of metal and metal alloy	2
21	Introduction to crown and bridge material	2
22	Amalgam filling showing the amalgam capsules and mixing of amalgam	2
23	Composite filling (chemical and light activated)	2
24	Demonstrate the setting of chemical and light activated composite	2
25	Showing different types of preventive materials (tooth pastes, gargles, Mo fluoride varnishes and resin sealers)	2
26	Demonstrate the obturating materials (Gutta percha, sealers) and endodor instruments	2
27	Finishing and polishing materials	2
28	Relining materials	2

29	Implant materials	2
30	Maxillofacial materials	2
	Total	60

Course Description Form (Theoretical)

19.Course Name: oral histology & embrology
20.Course Code: 211
21.Semester / Year: year
22.Description Preparation Date: 15-10-2025
23.Available Attendance Forms: theory and practical
24.Number of Credit Hours (Total) / Number of Units (Total)
1 theory and 2 practical per weeks
25.Course administrator's name (mention all, if more than one name)
Name: Prof, dr,Ghada moosa mustafa Ghadamoosa@uruk.edu.iq Assisstant .Lecturer, dr,Ibrahem fouad mahmood Email:
26.Course Objectives

Course Objectives	**Learn the student the oral normal tissues , And their functions and locations,**

27.Teaching and Learning Strategies

Strategy	To understand the nature of the normal oral tissues & &under standi their embryological origins

28. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method

1	1	Theory 1and practica	Embryogenesis: first week, ovulation, fertilization and implantation	Power poir	QUIZ
2	1	=	**2nd week,Bilaminar germ layer er**	=	=
3	=	=	3rd week trilaminar germ layer: gastrulation and neurulation	=	=
4	=	=	Development of head and neck(pharyngeal arch,pouch & cleft	=	=
5	=	=	Development of face and anomalies	=	=
6	=	=	Development of tongue and anomalies	=	=
7	=	=	Development of palate and anomalies	=	=
8	=	=	Slide preparation	=	=
9	=	=	Tooth development and developmental disturbances of teeth	=	=
10	=	=	Dentinogenesis and dentin structure	=	=
11	=	=	Amelogenesis, Enamel structures	=	=
12	=	=	Clinical consideration for dentin and enamel	=	=
13	=	=	Dental Pulp	=	=
14	=	=	Cementum and clinical consideration	=	=
15	=	=	Root formation& Cementogenesis	=	=
16	=	=	Periodontal ligaments	=	=
17	=	=	Principles fiber of pdl and gingival fibers	=	=
18	=	=	Alveolar bone	=	=
19	=	=	Bone formation and resorption	=	=
20	=	=	Proteins involve in mineralization of bone and dentin	=	=
21	=	=	Oral mucosa and their types	=	=
22	=	=	Gingiva and dentogingival junction	=	=
23	=	=	Eruption of teeth	=	=
24	=	=	Shedding of teeth	=	=
25	=	=	Salivary gland	=	=
26	=	=	Salivary proteins	=	=
27	=	=	TMJ	=	=
28	=	=	Maxillary sinus	=	=
29	=	=	Histochemistry	=	=
30	=	=	Age changes in soft and hard tissues	=	=

29.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

30.Learning and Teaching Resources

Required textbooks (curricular books, if any)	1 -. Antonio Nanci , Ten Cate's Oral Histology: Development, Structure, and Function ,8 edition (2017) 2-Kohil A,Bali RK,Bastian TS,Dental &Oral Histology With Embryology,2nd

	edition(2018)
Main references (sources)	
Recommended books and references (scientific journals, reports...)	Bhaskar S.N. ,Orban's Oral Histology.and Embryology ,13th edition(2020)
Electronic References, Websites	

Course Description Form (Practical)

31.Course Name: Oral Histology &Embryology	
32.Course Code: 211	
33.Semester / Year: 2025-2026	
34.Description Preparation Date:15-10-2025	
35.Available Attendance Forms: theory and practical	
36.Number of Credit Hours (Total) / Number of Units (Total)	
1 theory and 2 practical per weeks	
37.Course administrator's name (mention all, if more than one name)	
Name: Name: Prof, dr,Ghada moosa mustafa Ghadamoosa@uruk.edu.iq Assisstant .Lecturer, dr,Ibrahem foud mahmod Email:	
38.Course Objectives	
Course Objectives	**.... Learn the student the oral normal tissues oral and embryo regions..... Students learn the exact and modern methods for the s preparation and the types , functions .aging of all the de tissues and relations between the oral tissues and t origins.** • **.....** • **.....**
39.Teaching and Learning Strategies	
Strategy	To understand the nature of the oral tissues ,through

	under standing the etiology and and embryology ,

40. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2		Emb**ryogenesis: first week, ovulation, fertilization and implantation**	Power point slides	Quiz
2	=		2nd week,Bilaminar germ layer er	=	=
3	=		3rd week trilaminar germ layer	=	=
4	=		Development of head and neck(pharyngeal arch,pouch & cleft	=	=
5	=		Development of face and anomalies	=	=
6	=		Development of tongue and anomalies	=	=
7	=		Development of palate and anomalies	=	=
8	=		Slide preparation	=	=
9	=		Tooth development and developme disturbances of teeth	=	=
10	=		Dentinogenesis and dentin structure	=	=
11	=		Amelogenesis,enamel structures	=	=
12	=		Clinical consideration for dentin and enar	=	=
13	=		Dental Pulp	=	=
14	=		Cementum and clinical consideration	=	=
15	=		Root formation& Cementogenesis	=	=
16	=		Periodontal ligaments	=	=
17	=		Principles fiber of pdl and gingival fibers	=	=
18	=		Alveolar bone	=	=
19	=		Bone formation and resorption	=	=
20	=		Proteins involve in mineralization of bone and dentin	=	=
21	=		Oral mucosa and their types	=	=
22	=		Gingiva and dentogingival junction	=	=
23	=		Eruption of teeth	=	=
24	=		Shedding of teeth	=	=
25	=		Salivary gland	=	=
26	=		Salivary proteins	=	=
27	=		TMJ	=	=
28	=		Maxillary sinus	=	=
29	=		Histochemistry	=	=
30	=		Age changes in soft and hard tissues	=	=

41.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

42.Learning and Teaching Resources	
Required textbooks (curricular books any)	1- Antonio Nanci , Ten Cate's Oral Histology: Development, Structure, and Function ,8 edition (2012) 2-Kohil A,Bali RK,Bastian TS,Dental &Oral Histology V Embryology,2nd edition(2018)
Main references (sources)	**Bhaskar S.N· ,Orban's Oral Histology.and Embryology , edition(2019)**
Recommended books and references (scientific journals, reports...)	**Bhaskar S.N· ,Orban's Oral Histology.and Embryology ,13th edition(2019)**
Electronic References, Websites	Google for searching articles and researches

Course Description Form (Theoretical)

43.Course Name: : **Biochemistry**	
44.Course Code: 212 BC	
45.Semester / years2025 -2026	
46.Description Preparation Date:2025|10|4	
47.Available Attendance Forms: : Attendance in the classroom for the theoretical subject	
48.Number of Credit Hours (Total) / Number of Units (Total) 60 hours of theory for 4 unit	
49.Course administrator's name (mention all, if more than one name)	
Name: Raheem sabar Email: raheemsabar18@gmail.com	
50.Course Objectives	
Course Objectives	• Preparing the student practically in terms of applying the acquired knowledge • Thinking about problem-solving. • Developing the student's ability to handle multiple learning tools and understand the vital activities occurring in the body. • To teach students the practical and theoretical applications of the most important compounds and metabolic reactions that occur in the human body. • Familiarization with the medical terminology of biochemistry • Explanation of the methods used in diagnosing certain diseases and chemical markers. Enabling the student to possess sufficient medical knowledge in biochemistry.

51.Teaching and Learning Strategies	
Strategy	A detailed study of biochemistry, which will provide the key to understanding metabolic activities and the most important biomolecules in the human body, and enhancing this study through practical application to give students a more comprehensive understanding of biochemistry. • Lectures using PowerPoint program • Showing educational videos. • Guiding students to the most important books and some websites for their benefit.

52. Course Structure

Evaluation method	Teaching method	Topic name	Learning outcome	Hours	lweek
Daily and monthly exams And semi-annual and final	Theoretical lecture using PowerPoint PowerPoint	Biochemistry	**Enzymes: Definition ,Terminology , and Classification**	2	1
Daily and monthly exams And semi-annual and final	Theoretical lecture using PowerPoint PowerPoint	Biochemistry	**Mechanism of enzyme action**	2	2
Daily and monthly exams And semi-annual and final	Theoretical lecture using PowerPoint PowerPoint	Biochemistry	**Clinical significance of enzyme assays**	2	3
Daily and monthly exams And semi-annual and final	Theoretical lecture using PowerPoint PowerPoint	Biochemistry	**Vitamins, definition, classification**	2	4
Daily and monthly exams And semi-annual and final	Theoretical lecture using PowerPoint PowerPoint	Biochemistry	**Vitamins Disorders**	2	5
Daily and monthly exams And semi-annual and final	Theoretical lecture using PowerPoint PowerPoint	Biochemistry	**Chemistry of carbohydrates**	2	6
Daily and monthly exams And semi-annual and final	Theoretical lecture using PowerPoint PowerPoint	Biochemistry	**Metabolism of Carbohydrates: part 1**	2	7
Daily and monthly exams And semi-annual and final	Theoretical lecture using PowerPoint PowerPoint	Biochemistry	**Metabolism of Carbohydrates :part 2**	2	8
Daily and monthly exams And semi-annual and final	Theoretical lecture using PowerPoint PowerPoint	Biochemistry	**Carbohydrates metabolism regulation**	2	9
Daily and monthly	Theoretical lecture using	Biochem	**Chemistry of proteins**	2	10

exams And semi-annual and final	PowerPoint PowerPoint	istry	**and amino acids**		
Daily and monthly exams And semi-annual and final	Theoretical lecture using PowerPoint PowerPoint	Biochemistry	**Metabolism of proteins and amino acids**	2	11
Daily and monthly exams And semi-annual and final	Theoretical lecture using PowerPoint PowerPoint	Biochemistry	**Metabolism of Protein and amino acid regulation**	2	12
Daily and monthly exams And semi-annual and final	Theoretical lecture using PowerPoint PowerPoint	Biochemistry	**Metabolism of Protein and amino acid inherited disorder**	2	13
Daily and monthly exams And semi-annual and final	Theoretical lecture using PowerPoint PowerPoint	Biochemistry	**Metabolism of starvation**	2	14
Daily and final exams, practical lab activities It involves writing and correcting experiment reports.	Theoretical-practical lecture using the Point Power program, with an experiment Practical session and presentation of educational videos	Biochemistry	Kidney function Test (urea)	2	15
	Mid Exam		16		
Daily and final exams, practical lab activities It involves writing and correcting experiment reports.	Theoretical-practical lecture using the Point Power program, with an experiment Practical session and presentation of educational videos	Biochemistry	Serum creatinine &creatinine clearness	2	17
Daily and final exams, practical lab activities It involves writing and correcting experiment reports.	Theoretical-practical lecture using the Point Power program, with an experiment Practical session and presentation of educational videos	Biochemistry	General Urine Analysis	2	18
Daily and final exams, practical lab activities It involves writing and correcting experiment reports.	Theoretical-practical lecture using the Point Power program, with an experiment Practical session and presentation of educational videos	Biochemistry	Uric acid	2	19
Daily and final exams, practical lab activities It involves writing and correcting experiment reports.	Theoretical-practical lecture using the Point Power program, with an experiment Practical session and presentation of educational videos	Biochemistry	Amylase in serum+ saliva	2	20
Daily and final exams, practical lab activities It involves writing and correcting experiment reports.	Theoretical-practical lecture using the Point Power program, with an experiment Practical session and presentation of educational videos	Biochemistry	creatine phosphokinase	2	21

Daily and final exams, practical lab activities It involves writing and correcting experiment reports.	Theoretical-practical lecture using the Point Power program, with an experiment Practical session and presentation of educational videos	Biochemistry	lactate Dehydrogenase	2	22
Daily and final exams, practical lab activities It involves writing and correcting experiment reports.	Theoretical-practical lecture using the Point Power program, with an experiment Practical session and presentation of educational videos	Biochemistry	serum calcium	2	23
Daily and final exams, practical lab activities It involves writing and correcting experiment reports.	Theoretical-practical lecture using the Point Power program, with an experiment Practical session and presentation of educational videos	Biochemistry	serum phosphorus	2	24
Daily and final exams, practical lab activities It involves writing and correcting experiment reports.	Theoretical-practical lecture using the Point Power program, with an experiment Practical session and presentation of educational videos	Biochemistry	serum Na	2	25
Daily and final exams, practical lab activities It involves writing and correcting experiment reports.	Theoretical-practical lecture using the Point Power program, with an experiment Practical session and presentation of educational videos	Biochemistry	serum K	2	26
Daily and final exams, practical lab activities It involves writing and correcting experiment reports.	Theoretical-practical lecture using the Point Power program, with an experiment Practical session and presentation of educational videos	Biochemistry	serum Iron	2	27
Daily and final exams, practical lab activities It involves writing and correcting experiment reports.	Theoretical-practical lecture using the Point Power program, with an experiment Practical session and presentation of educational videos	Biochemistry	Vitamin D	2	28
Daily and final exams, practical lab activities It involves writing and correcting experiment reports.	Theoretical-practical lecture using the Point Power program, with an experiment Practical session and presentation of educational videos	Biochemistry	Vitamin C	2	29
Daily and final exams, practical lab activities It involves writing and correcting experiment reports.	Theoretical-practical lecture using the Point Power program, with an experiment Practical session and presentation of educational videos	Biochemistry	Acid phosphatase	2	30

53.Course Evaluation

Distribution of the grade out of 100 according to the tasks assigned to the student, such as daily preparation, daily, oral, monthly, and written exams... Etc. 15% midterm 25% annual effort (including daily and monthly exams and practical requirements) 20% final practical exam 40% final theoretical exam

54.Learning and Teaching Resources

Textbook of Biochemistry for dental/Nursing/Pharm: Students:3rd Ed. MN Chatterjea.2009.	Required textbooks (curriculum if available)
References: **1- Lippincott Illustrated Reviews Biochemistry 2017.**	Main references (sources)

2- Marton crook: Clinical Biochemistry andmetabolic medicine; 2012	
1. textbook of medical biochemistry 8th Ed JAYPEE.	The recommended supporting books and references (scientific journals, (.....
Electronic References, Websites	

Course Description Form (Practical)

1-Course Name: biochemistry
2-Course Code: 212BC
3-Semester / Year:2025-2026
4-Description Preparation Date:2025-10-3
5-Available Attendance Forms:
Attendance in the lab for the practical subject
6-Number of Credit Hours (Total) / Number of Units (Total)
60 hours (practical) / 2 credit units
55.Course administrator's name (mention all, if more than one name)
Name: Assist. Lec. Ahmad Abbas Mahawi Email: Ahmedebadi888@gmail.com
56.Course Objectives

Preparing the student practically in terms of applying the acquired knowledge. ● Thinking about problem-solving. ● Developing the student's ability to handle multiple learning methods ● Learning how to measure chemical analyses and read their results ● Familiarization with chemical medical terminology ● Enabling the student to possess sufficient medical knowledge in the field of biochemistry ● Finding knowledge and understanding of metabolic functions and how to	•

translate this knowledge to improve health and prevent diseases	

57. Teaching and Learning Strategies

Strategy	● Conducting practical experiments to enhance the student's understanding and perception ● Lectures using PowerPoint ● Showing educational videos. ● Guiding students to certain websites for their benefit. ● Monitoring students' thinking patterns, expression methods, and response speed through scientific discussions.

58. Course Structure

Evaluation method	Learning method	Topic name	Learning outcomes	Hours	Week
Daily and final exams, practical lab activities It involves writing and correcting experiment reports.	Theoretical-practical lecture using the Point Power program, with an experiment Practical session and presentation of educational videos	Biochemistry	Lab safety	2	1
Daily and final exams, practical activities It involves writing correcting experiment reports.	Theoretical-practical lecture using the Point Power program, with an experiment Practical session and presentation of educational videos	Biochemistry	Sample collection-1	2	2
Daily and final exams, practical activities It involves writing correcting experiment reports.	Theoretical-practical lecture using the Point Power program, with an experiment Practical session and presentation of educational videos	Biochemistry	Sample collection -2	2	3
Daily and final exams, practical activities It involves writing correcting experiment reports.	Theoretical-practical lecture using the Point Power program, with an experiment Practical session and presentation of educational videos	Biochemistry	Spectrophotometer	2	4
Daily and final exams, practical activities It involves writing correcting experiment reports.	Theoretical-practical lecture using the Point Power program, with an experiment Practical session and presentation of educational videos	Biochemistry	Standard curve	2	5
Daily and final exams, practical activities It involves writing correcting experiment reports.	Theoretical-practical lecture using the Point Power program, with an experiment Practical session and presentation of educational videos	Biochemistry	Blood glucose+ HbA1c	2	6
Daily and final exams, practical activities It involves writing correcting experiment reports.	Theoretical-practical lecture using the Point Power program, with an experiment Practical session and presentation of educational videos	Biochemistry	Total Protein	2	7
Daily and final exams, practical activities It involves writing correcting experiment reports.	Theoretical-practical lecture using the Point Power program, with an experiment Practical session and presentation of educational videos	Biochemistry	Albumin+ Globulin	2	8
Daily and final exams, practical activities It involves writing correcting experiment reports.	Theoretical-practical lecture using the Point Power program, with an experiment Practical session and presentation of educational videos	Biochemistry	Troponin	2	9

Daily and final exams, practical activities It involves writing correcting experiment reports.	Theoretical-practical lecture using the Point Power program, with an experiment Practical session and presentation of educational videos	Biochemistry	Liver function test (Bilirubin)	2	10
Daily and final exams, practical activities It involves writing correcting experiment reports.	Theoretical-practical lecture using the Point Power program, with an experiment Practical session and presentation of educational videos	Biochemistry	Alkaline Phosphatase	2	11
Daily and final exams, practical activities It involves writing correcting experiment reports.	Theoretical-practical lecture using the Point Power program, with an experiment Practical session and presentation of educational videos	Biochemistry	Transaminases (ALT&AST)	2	12
Daily and final exams, practical activities It involves writing correcting experiment reports.	Theoretical-practical lecture using the Point Power program, with an experiment Practical session and presentation of educational videos	Biochemistry	Lipid in blood (cholesterol & lipoprotein)	2	13
Daily and final exams, practical lab activities It involves writing and correcting experiment reports.	Theoretical-practical lecture using the Point Power program, with an experiment Practical session and presentation of educational videos	Biochemistry	Triglyceride	2	14
Daily and final exams, practical lab activities It involves writing and correcting experiment reports.	Theoretical-practical lecture using the Point Power program, with an experiment Practical session and presentation of educational videos	Biochemistry	Kidney function Test (urea)	2	15
	Mid Exam				**16**
Daily and final exams, practical lab activities It involves writing and correcting experiment reports.	Theoretical-practical lecture using the Point Power program, with an experiment Practical session and presentation of educational videos	Biochemistry	Serum creatinine &creatinine clearness	2	17
Daily and final exams, practical lab activities It involves writing and correcting experiment reports.	Theoretical-practical lecture using the Point Power program, with an experiment Practical session and presentation of educational videos	Biochemistry	General Urine Analysis	2	18
Daily and final exams, practical lab activities It involves writing and correcting experiment reports.	Theoretical-practical lecture using the Point Power program, with an experiment Practical session and presentation of educational videos	Biochemistry	Uric acid	2	19
Daily and final exams, practical lab activities It involves writing and correcting experiment reports.	Theoretical-practical lecture using the Point Power program, with an experiment Practical session and presentation of educational videos	Biochemistry	Amylase in serum+ saliva	2	20
Daily and final exams, practical lab activities It involves writing and correcting experiment reports.	Theoretical-practical lecture using the Point Power program, with an experiment Practical session and presentation of educational videos	Biochemistry	creatine phosphokinase	2	21
Daily and final exams, practical lab activities It involves writing and correcting experiment reports.	Theoretical-practical lecture using the Point Power program, with an experiment Practical session and presentation of educational videos	Biochemistry	lactate Dehydrogenase	2	22
Daily and final exams, practical lab activities It involves writing	Theoretical-practical lecture using the Point Power program, with an	Biochemistry			

and correcting experiment reports.	experiment Practical session and presentation of educational videos		serum calcium	2	23
Daily and final exams, practical lab activities It involves writing and correcting experiment reports.	Theoretical-practical lecture using the Point Power program, with an experiment Practical session and presentation of educational videos	Biochemistry	serum phosphorus	2	24
Daily and final exams, practical lab activities It involves writing and correcting experiment reports.	Theoretical-practical lecture using the Point Power program, with an experiment Practical session and presentation of educational videos	Biochemistry	serum Na	2	25
Daily and final exams, practical lab activities It involves writing and correcting experiment reports.	Theoretical-practical lecture using the Point Power program, with an experiment Practical session and presentation of educational videos	Biochemistry	serum K	2	26
Daily and final exams, practical lab activities It involves writing and correcting experiment reports.	Theoretical-practical lecture using the Point Power program, with an experiment Practical session and presentation of educational videos	Biochemistry	serum Iron	2	27
Daily and final exams, practical lab activities It involves writing and correcting experiment reports.	Theoretical-practical lecture using the Point Power program, with an experiment Practical session and presentation of educational videos	Biochemistry	Vitamin D	2	28
Daily and final exams, practical lab activities It involves writing and correcting experiment reports.	Theoretical-practical lecture using the Point Power program, with an experiment Practical session and presentation of educational videos	Biochemistry	Vitamin C	2	29
Daily and final exams, practical lab activities It involves writing and correcting experiment reports.	Theoretical-practical lecture using the Point Power program, with an experiment Practical session and presentation of educational videos	Biochemistry	Acid phosphatase	2	30

59.Course Evaluation

Distribution of the grade out of 100 according to the tasks assigned to the student, such as daily preparation, daily, oral, monthly, and written exams, and reports... etc. 7% annual effort (including daily and monthly exams and practical requirements) 20% final practical exam

60.Learning and Teaching Resources

1- Crook Martin.Clinical Biochemistry and Metabolic Medicine 2- Burits,A. Carl.Bruns, E. David .Tietz Fundamentals of Clinical chemistry and Molecular Diagnostics

Course Description For (Theoretical)

61.Course Name: General Histology
62.Course Code: 213 GH
63.Semester / Year: 2025-2026
64.Description Preparation Date: 1-11-2025
65.Available Attendance Forms: PPP Lectures .
66.Number of Credit Hours (Total) / Number of Units (Total): 120 hr.
67.Course administrator's name (mention all, if more than one name)
Name: Dr. jaafar Sadeq Makki Email: jaafer58@hotmail.com

68.Course Objectives **(Theoretical)**	
Course Objectives	• Cognitive Objectives: - State the fundamental knowledge and principles of pathological tissue. - Prepare concise reports on the scientific material. • Affective and Value Objectives : - Pose discussion-provoking questions by students. - Pose questions for the student to solve for the semesters. - Conduct quick intellectual quizzes. • General and Transferable Skills : - Follow up on external resources. - Prepare external questions from those resources. Urge students to follow educational sequences.
69.Teaching and Learning Strategies (Theoretical)	

Strategy	4. Lectures. 5. Conducting microscopic examinations of pathological tissue samples. 6. Reading core textbooks. 7. Conducting scientific discussions.

70. Course Structure

Week	Hours	Required Learning Outcomes	subject name	Learning method	Evaluation method
1	2	Cells, Cell division, Extracellular materials, Intercellular junction, Basic tissue properties, Basic tissue classification	General histology	Lectures as PPP.	Daily & monthly Exam.
2	**2**	**Epithelium properties,** Epithelium histology, Epithelium classification, Epithelium regeneration, turnover, and repair, Basement membrane.	**General histology**	**Lectures as PPP.**	**Daily & monthly Exam.**
3	**2**	**Connective tissue histology,** Connective tissue classification, Connective tissue ,proper, regeneration turnover, and repair Specialized connective tissue, Muscle properties.	**General histology**	**Lectures as PPP.**	**Daily & monthly Exam.**
4	**2**	**Conducting portion**: Nasal cavity, Nasopharynx, Larynx, Trachea, Bronchi, Bronchioles, and Terminal bronchioles.	**General histology**	**Lectures as PPP.**	**Daily & monthly Exam.**
5	**2**	**Respiratory portion:** Respiratory bronchioles, Alveolar ducts,Alveoli, Lung vasculature and neves , Pleura.	**General histology**	**Lectures as PPP.**	**Daily & monthly Exam.**
6	**2**	**Urinary System:** kidney nephrons, collecting tubules and ducts.	**General histology**	**Lectures as PPP.**	**Daily & monthly Exam.**
7	**2**	**Urinary System:** ureter, urinary bladder and female & male urethra	**General histology**	**Lectures as PPP.**	**Daily & monthly Exam.**
8	**2**	**Integumentary System:** skin: epidermis, dermis Thick skin, Thin skin Layers of Skin ,	**General histology**	**Lectures as PPP.**	**Daily & monthly Exam.**

		Melanocytes Langerhans Cells, Merkel's Cells.			
9	**2**	**Integumentary System**: skin glands, Sebaceous Glands, Sweat glands, Subcutaneous tissue (hypodermis hair, and nail.	**General histology**	**Lectures as PPP.**	**Daily & monthly Exam.**
10	**2**	**Hemopoiesis:** Bone marrow Prenatal & postnatal haemopiesis. Bone marrow, red & yellow none marrow.	**General histology**	**Lectures as PPP.**	**Daily & monthly Exam.**
11	**2**	**Hemopoiesis:** blood cells Erythrocytes or Red blood corpuscles (RBC), (Leukocytes), platelets.	**General histology**	**Lectures as PPP.**	**Daily & monthly Exam.**
12	**2**	**Circulatory System:** Arterial system Elastic arteries, Muscular arteries Arterioles, Lymphatic vascular system	**General histology**	**Lectures as PPP.**	**Daily & monthly Exam.**
13	**2**	**Circulatory System:** Muscular Vein, veinule, capillaries.	**General histology**	**Lectures as PPP.**	**Daily & monthly Exam.**
14	**2**	**Lymphoid System:** Functions of the Lymphatic System consists of Cells, Tissues, Organs.	**General histology**	**Lectures as PPP.**	Daily & monthly Exam.
15	**2**	**Lymphoid System:** The peripheral (secondary) lymphoid tissues Mucosa Associated Lymphoid Tissue (MALT).	**General histology**	**Lectures as PPP.**	Daily & monthly Exam.
16	**Mid Exam.**				
17	**2**	**Nervous System**: Nerve tissue, Neurons and glial cell Nerve fibers structure Synapse. CNS and PNS, Brain, Spinal cord, Cerebellum.	**General histology**	**Lectures as PPP.**	Daily & monthly Exam.
18	**2**	**Endocrine System**: Histological structure of: Islets of Langerhans, Adrenal gland and Pineal gland.	**General histology**	**Lectures as PPP.**	Daily & monthly Exam.
19	**2**	**Endocrine System:**	**General**	**Lectures as**	Daily &

		Histological structure of Pituitary (Hypophysis) , Blood supply , and cells of the neurohypophysis .	**histology**	**PPP.**	monthly Exam.
20	**2**	**Endocrine System:** Histological structure of Parathyroid, Thyroid glands.	**General histology**	**Lectures as PPP.**	Daily & monthly Exam.
21	**2**	**Digestive System:** Tongue, Salivary glands , Lips or labia, Taste buds, Types of the cells .	**General histology**	**Lectures as PPP.**	Daily & monthly Exam.
22	**2**	**Digestive System:** General structure of the digestive tract, Oral cavity, Esophagus ,Stomach Mucosa, Other Layers	**General histology**	**Lectures as PPP.**	Daily & monthly Exam.
23	**2**	**Digestive System:** Large intestine, Cecum, Appendix, and Rectum.	**General histology**	**Lectures as PPP.**	Daily & monthly Exam.
24	**2**	**Digestive System:** Histological structure of: liver ,Pancreas , and Gall bladder.	**General histology**	**Lectures as PPP.**	Daily & monthly Exam.
25	**2**	**Male Reproductive System** Testes, Intratesticular ducts,Excretory genital ducts.	**General histology**	**Lectures as PPP.**	Daily & monthly Exam.
26	**2**	**Male Reproductive System** Accessory glands, Penis.	**General histology**	**Lectures as PPP.**	Daily & monthly Exam.
27	**2**	**Female Reproductive System** Histological structure of: Ovary, Corpus luteum, Uterus.	**General histology**	**Lectures as PPP.**	Daily & monthly Exam.
28	**2**	**Female Reproductive System** Histological structure of placenta, vagina, mammary gland.	**General histology**	**Lectures as PPP.**	Daily & monthly Exam.
29	**2**	**Special Sense Organs: Eye**	**General histology**	**Lectures as PPP.**	Daily & monthly Exam.
30	**2**	**Special Sense Organs: Ear**	**General histology**	**Lectures as PPP.**	Daily & monthly Exam.
71.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	
72.Learning and Teaching Resources	
Required textbooks (curricular books, if any)	Junqueira's Basic Histology: TEXT and ATLAS
Main references (sources)	Jonquiere's Basic Histology Text and Atlas Thirteen Edition (2013) by Anthony L. Mescher; Fiore's Atlas of Histology with Functional Correlatic Twelfth Edition (2013)by Victor P. Eroschen Illustrated Dental Embryology, Histology, Anatomy, Fourth Edition (2016)by Margaret Fehrenbach and Tracy Popwics
Recommended books and references (scientific journals, reports...)	Di FIORE'S ATLAS OF HISTOLOGY WITH FUNCTIONAL CORRELATIONS, 11th Edition by Victor P. Eroschenko
Electronic References, Websites	-PUB MED - https://www.ncbi.nlm.nih.gov/pubme - university website.

Course Description Form (Practical)

73.Course Name: General Histology	
74.Course Code: 213GH	
75.Semester / Year: 2025-2026	
76.Description Preparation Date: 1-11-2025	
77.Available Attendance Forms: Lab training	
78.Number of Credit Hours (Total) / Number of Units (Total) 60Hr.	
79.Course administrator's name (mention all, if more than one name)	
Name: Dr. jaafar Sadeq makki Email: jaafer58@hotmail.com	
80.Course Objectives (practical)	
Course Objectives	• Cognitive Objectives: - State the fundamental knowledge and principles of pathological tissue. - Prepare concise reports on the scientific material. • Affective and Value Objectives : - Pose discussion-provoking questions by students. - Pose questions for the student to solve for the semesters. - Conduct quick intellectual quizzes. • General and Transferable Skills :

	- Follow up on external resources. - Prepare external questions from those resources. Urge students to follow educational sequences.

81. Teaching and Learning Strategies (practical)	
Strategy	5. Lectures. 6. Conducting microscopic examinations of pathological tissue samples. 7. Reading core textbooks. 8. Conducting scientific discussions.

82. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2	Slides of cells and Basic Tissue	General Histology	PPP lecture & slides examination	Daily & monthly exa.
2	2	Slides of epithelial tissue	General Histology	PPP lecture & slides examination	Daily & monthly exa.
3	2	Slides of connective tissue	General Histology	PPP lecture & slides examination	Daily & monthly exa.
4	2	Slides of Respiratory System: conducting portion	General Histology	PPP lecture & slides examination	Daily & monthly exa.
5	2	Slides of Respiratory System: Respiratory portion	General Histology	PPP lecture & slides examination	Daily & monthly exa.
6	2	Slides of Urinary System: kidney nephrons, collecting tubules and ducts	General Histology	PPP lecture & slides examination	Daily & monthly exa.
7	2	Slides of Urinary System; ureter, urinary bladder, male & female urethra.	General Histology	PPP lecture & slides examination	Daily & monthly exa.
8	2	Slides of Integumentary System: skin: epidermis, dermis	General Histology	PPP lecture & slides examination	Daily & monthly exa.
9	2	Slides of Integumentary System: skin glands Hair & nail.	General Histology	PPP lecture & slides examination	Daily & monthly exa.
10	2	Slides of Hemopoiesis: bone marrow	General Histology	PPP lecture & slides examination	Daily & monthly exa.
11	2	Slides of Hemopoiesis: blood cells.	General Histology	PPP lecture & slides examination	Daily & monthly exa.
12	2	Slides of Circulatory System	General Histology	PPP lecture & slides examination	Daily & monthly exa.
13	2	Slides of Circulatory System	General Histology	PPP lecture & slides examination	Daily & monthly exa.
14	2	Slides of Lymphoid System	General Histology	PPP lecture & slides examination	Daily & monthly exa.
15	2	Slides of Lymphoid System	General Histology	PPP lecture & slides examination	Daily & monthly exa.

16	Mid Exam				
17	2	Slides of Nervous system.	General Histology	PPP lecture & slides examination	Daily & monthly exa.
18	2	Slides of Endocrine System	General Histology	PPP lecture & slides examination	Daily & monthly exa.
19	2	Slides of Endocrine System	General Histology	PPP lecture & slides examination	Daily & monthly exa.
20	2	Slides of Endocrine System	General Histology	PPP lecture & slides examination	Daily & monthly exa.
21	2	Slides of Endocrine System	General Histology	PPP lecture & slides examination	Daily & monthly exa.
22	2	Slides of digestive system	General Histology	PPP lecture & slides examination	Daily & monthly exa.
23	2	Slides of digestive system.	General Histology	PPP lecture & slides examination	Daily & monthly exa.
24	2	Slides of digestive sysyem.	General Histology	PPP lecture & slides examination	Daily & monthly exa.
25	2	Slides of Male Reproductive System	General Histology	PPP lecture & slides examination	Daily & monthly exa.
26	2	Slides of Male Reproductive System	General Histology	PPP lecture & slides examination	Daily & monthly exa.
27	2	Slides of Male Reproductive System	General Histology	PPP lecture & slides examination	Daily & monthly exa.
28	2	Slides of Male Reproductive System	General Histology	PPP lecture & slides examination	Daily & monthly exa.
29	2	Slides of Special Sense Organs: eye	General Histology	PPP lecture & slides examination	Daily & monthly exa.
30	2	Slides of Special Sense Organs: ear	General Histology	PPP lecture & slides examination	Daily & monthly exa.

83. 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

84. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Junqueira's Basic Histology: TEXT & ATLAS
Main references (sources)	Jonquiere's Basic Histology Text and Atlas Thirteen Edition (2013) by Anthony L. Mescher; Di Fio Atlas of Histology with Functional Correlations, Twe Edition (2013)by Victor P. Eroschenko; Illustrated Der Embryology, Histology, and Anatomy, Fourth Edit (2016)by Margaret J. Fehrenbach and Tracy Popwics
Recommended books and references (scientific journals, reports...)	Di FIORE'S ATLAS OF HISTOLOGY WITH FUNCTIONAL CORRELATIONS, 11th Edition by Victor P. Eroschenko
Electronic References, Websites	-PUB MED - https://www.ncbi.nlm.nih.gov/pubmed

	- university website.

Course Description For (Theoretical)

95. Course Name: General Physiology	
96. Course Code: 214 PH	
97. Semester / Year: 2025-2026	
98. Description Preparation Date: 30-11-2025	
99. Available Attendance Forms: PPP Lectures .	
100. Number of Credit Hours (Total) / Number of Units (Total): 120 hr.	
101. Course administrator's name (mention all, if more than one name)	
Name: Dr. Thaer Saleem Salman Email: tsss1958@uruk.edu.iq	
102. Course Objectives (Theoretical)	
Course Objectives	• Cognitive Objectives: - State the fundamental knowledge and principles of pathological tissue.

	- Prepare concise reports on the scientific material. • Affective and Value Objectives : - Pose discussion-provoking questions by students. - Pose questions for the student to solve for the semesters. - Conduct quick intellectual quizzes. • General and Transferable Skills : - Follow up on external resources. - Prepare external questions from those resources. Urge students to follow educational sequences.
103. Teaching and Learning Strategies (Theoretical)	
Strategy	8. Lectures. 9. Conducting microscopic examinations for the scheduled practical experiments 10. Reading core textbooks. 11. Conducting scientific discussions.

104. Course Structure

Week	Hours	Required Learning Outcomes	subject name	Learning method	Evaluation method
1	2	Introduction (Function organization of the human body. Cell physiology , Cell membrane , Cell components , Cell junction.	General physiology	Lectures as PPP.	Daily & monthly Exam.
2	2	Body fluid (Type of body fluids , Intracellular and extracellular , Daily intake of water, Daily loss of body water , Constituents of intracellular and extracellular fluids, Major factors contribute to the movement of fluid , specialized fluids of the body) Edema (Types of edema , causes of edema , measurement of body fluid volume , Dehydration ,types of dehydration)	General physiology	Lectures as PPP.	Daily & monthly Exam.
3	2	Homeostasis and Transport across cell membrane (Diffusion (passive),carrier – mediated transport (passive or active) , (Vesicular transport)	General physiology	Lectures as PPP.	Daily & monthly Exam.

4	2	Oral Cavity and 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)	General physiology	Lectures as PPP.	Daily & monthly Exam.
5	2	Salivary functions and regulation of salivary secretion (composition of saliva , salivary components , properties of saliva , functions of saliva , effect of drug and chemicals on salivary secretion, maintenance of tooth integrity , the diagnostic application of saliva and forensic uses of saliva , disadvantages / limitations of saliva	General physiology	Lectures as PPP.	Daily & monthly Exam.
6	2	Blood (composition of blood , hematocrit , plasma , functions of blood , red blood cells , genesis of RBC , polycyhemia , anemia, destruction of RBCs .	General physiology	Lectures as PPP.	Daily & monthly Exam.
7	2	White Blood Cells, types of WBC , genesis of the leukocytes , life span of WBC , phagocytosis , inflammation , leukaemia , leukopenia .	General physiology	Lectures as PPP.	Daily & monthly Exam.
8	2	Hemoglobin , formation of hemoglobin , iron metabolism , Hb compounds , destruction of Hb , the common causes of jaundice .	General physiology	Lectures as PPP.	Daily & monthly Exam.
9	2	Blood groups , agglutination , agglutinins , the Rh group , formation of anti-Rh agglutinins , erythroblastosis fetalis , effect of the mothers antibodies on the fetus , transfusion reactions resulting from mismatched blood types , nature of	General physiology	Lectures as PPP.	Daily & monthly Exam.

		antibodies .			
10	2	Hemostasis and blood coagulation Vascular spasm , formation of platelet plug, mechanism of platelet plug , mechanism of blood coagulation , prevention of clotting in the normal vascular system , prevention of blood coagulation outside the body , blood disease	General physiology	Lectures as PPP.	Daily & monthly Exam.
11	2	Cardiovascular system blood vessels , heart layers , valves , actions of heart , blood vessels , division of circulation , properties of cardiac muscles , action potential and ionic bases , conductive system of human heart .	General physiology	Lectures as PPP.	Daily & monthly Exam.
12	2	Cardiovascular system , electrocardiogram , cardiac cycles, heart sounds , cardiac output , heart rate regulation , arterial blood pressure and regulation of ABP , venous pulse , regional circulation .	General physiology	Lectures as PPP.	Daily & monthly Exam.
13	2	Cardiovascular system , electrocardiogram , hemorrhage , circulatory schock and heart failure , cardiovascular adjustments , during exercise .	General physiology	Lectures as PPP.	Daily & monthly Exam.
14	2	Respiratory System : types of respiration , stages of respiration , respiratory tract , Non respiratory functions of respiratory tract , mechanism of pulmonary ventilation , types of respiratory pressures , factors causing and preventing collapsing tendency of lungs .	General physiology	Lectures as PPP.	Daily & monthly Exam.
15	2	Respiratory System\; lung volumes and capacities , compliance , variation in compliance , the resistance and work of ventilation , regulation of respiration , the relationship between oral health and respiratory disease .	General physiology	Lectures as PPP.	Daily & monthly Exam.
16	**Mid Exam.**				

17	2	Special Sensation : vision , hearing , taste and smell , structure of the eye , visual process and field of vision , errors of refraction , structure of ear and auditory pathway , mechanism of hearing and auditory defects , sensation of taste and smell .	General physiology	Lectures as PPP.	Daily & monthly Exam.
18	2	Temperature of the body : normal body temperature , physiological variation 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 , mechanism to decrease or increase body temperature , sympathetic chemical excitation of heat production .	General Physiology	Lectures as PPP.	Daily & monthly Exam.
19	2	Urinary System : parts of renal system , the kidney , functions of kidney , components of kidney , parenchyma of kidney , nephron and juxtaglomerular apparatus , renal corpuscle , structure of renal corpuscle , tubular portion of nephron , collecting duct .	General physiology	Lectures as PPP.	Daily & monthly Exam.
20	2	Urinary System : 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 and oral heath .	General physiology	Lectures as PPP.	Daily & monthly Exam.
21	2	Endocrine System : introduction , endocrine glands , hormones , nature of hormones , classification of hormones , hormone secretion , hormone action , hormone receptors , synthesis and storage of hormones , mechanism of hormonal function , measurement of hormone concentration in the blood .	General physiology	Lectures as PPP.	Daily & monthly Exam.
22	2	Major Endocrine Glands : oral manifestation of endocrine dysfunction , control system involving hypothalamus and pituitary gland , the pituitary gland , the thyroid gland , pancreas gland and adrenal glands	General physiology	Lectures as PPP.	Daily & monthly Exam.

23	2	Digestive System : functions , structural layers , stomach , secretion of stomach , regulation of stomach secretion , mixing of stomach contents , stomach emptying .	General physiology	Lectures as PPP.	Daily & monthly Exam.
24	2	Digestive System: small intestine , secretion , movements , liver , functions of liver , pancreatic secretions , regulation of pancreatic secretions , large intestine , movement in the large intestine , digestion , absorption and transport .	General physiology	Lectures as PPP.	Daily & monthly Exam.
25	2	Muscular System : tone , contraction , types , structure , microscopic structure , muscle physiology , properties , contraction and contractile elements , tone , electrical and molecular changes during muscle contraction .	General physiology	Lectures as PPP.	Daily & monthly Exam.
26	2	Muscular System : tone and contraction, molecular changes during muscle contraction , neuromuscular junction , transmission and blockers , nutrition and metabolism (energy requirements)	General physiology	Lectures as PPP.	Daily & monthly Exam.
27	2	Nervous system : nerve impulse , synapses , nervous system division , cranial nerves , neuron and neuroglia , receptors , nerve impulse synapse and neurotransmitters .	General physiology	Lectures as PPP.	Daily & monthly Exam.
28	2	Nervous System : reflex activity , somatosensory system and somatomotor system , physiology of pain .	General physiology	Lectures as PPP.	Daily & monthly Exam.
29	2	Reproductive System : aging and reproductive system (male reproductive system , female reproductive system meiosis .	General physiology	Lectures as PPP.	Daily & monthly Exam.
30	2	Aviation and Deep physiology :body response in high altitudes , physiological jaundice in the sea deep . Nutrition and metabolism (daily energy requirmemt , obesity and fitness)	General physiology	Lectures as PPP.	Daily & monthly Exam.
105. 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	
106. Learning and Teaching Resources	
Required textbooks (curricular books)	Medical Physiology (Guyton & Hall)
Recommended books and references (scientific journals, reports…)	Ganong' s Review of Medical Physiology
Electronic References, Websites	–PUB MED – https://www.ncbi.nlm.nih.gov/pubmed – university website.

Course Description Form (Practical)

107. Course Name: General physiology	
108. Course Code: 214 PH	
109. Semester / Year: 2025-2026	
110. Description Preparation Date: 30-11-2025	
111. Available Attendance Forms: Lab training	
112. Number of Credit Hours (Total) / Number of Units (Total) 60Hr.	
113. Course administrator's name (mention all, if more than one name)	
Name: Dr. Thaer Saleem Salman tsss1958@uruk.edu.iq	
114. Course Objectives (practical)	
Course Objectives	• Cognitive Objectives: - State the fundamental knowledge and principles of pathological

	tissue. - Prepare concise reports on the scientific material. • Affective and Value Objectives : - Pose discussion-provoking questions by students. - Pose questions for the student to solve for the semesters. - Conduct quick intellectual quizzes. • General and Transferable Skills : - Follow up on external resources. - Prepare external questions from those resources. Urge students to follow educational sequences.

115. Teaching and Learning Strategies (practical)

Strategy	9. Lectures. 10. Conducting practical and microscopic examinations , experiments & clinical application . 11. Reading core textbooks. 12. Conducting scientific discussions.

116. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2	Microscope	General Physiology	PPP lecture & slides examination	Daily & monthly exa.
2	2	Collection of blood samples	General Physiology	PPP lecture & slides examination	Daily & monthly exa.
3	2	Blood smears	General Physiology	PPP lecture & slides examination	Daily & monthly exa.
4	2	Functions of saliva & Taste sensation	General Physiology	PPP lecture	Daily & monthly exa.
5	2	Stimulation and collection of salivary secretion	General Physiology	PPP lecture	Daily & monthly exa.
6	2	Separation of blood samples	General Physiology	PPP lecture & experiment	Daily & monthly exa.
7	2	Differential WBCs	General	PPP lecture &	Daily & monthly

			Physiology	slides examination	exa.
8	2	Total counts of WBCs	General Physiology	PPP lecture & slides examination	Daily & monthly exa.
9	2	Total counts of RBCs	General Physiology	PPP lecture & slides examination	Daily & monthly exa.
10	2	Blood Groups	General Physiology	PPP lecture & slides examination	Daily & monthly exa.
11	2	Estimation of hemoglobin	General Physiology	PPP lecture & experiment	Daily & monthly exa.
12	2	Bleeding and Clotting time	General Physiology	PPP lecture & experiment	Daily & monthly exa.
13	2	Self–Monitoring of blood glucose test	General Physiology	PPP lecture & experiment	Daily & monthly exa.
14	2	Measurement of blood pressure & pulse rate	General Physiology	PPP lecture & practical application	Daily & monthly exa.
15	2	Effect of exercise on blood pressure and respiration	General Physiology	PPP lecture & educational video presentation	Daily & monthly exa.
16	Mid Exam				
17	2	Physiology of vision test	General Physiology	PPP lecture & practical application	Daily & monthly exa.
18	2	Physiology of hearing test	General Physiology	PPP lecture & practical application	Daily & monthly exa.
19	2	Physiology of smell sensation	General Physiology	PPP lecture & practical application	Daily & monthly exa.
20	2	Measurement of body temperature	General Physiology	PPP lecture & practical application	Daily & monthly exa.
21	2	Thyroid function (Body Mass Index)	General Physiology	PPP lecture & educational video presentation	Daily & monthly exa.
22	2	Thyroid function (Body Mass Index)	General Physiology	PPP lecture & educational video presentation	Daily & monthly exa.
23	2	Resuscitation & artificial	General	PPP lecture &	Daily & monthly

		respiration	Physiology	educational video presentation	exa.
24	2	Resuscitation & artificial respiration	General Physiology	PPP lecture & educational video presentation	Daily & monthly exa.
25	2	Physiology of Skeletal Muscles	General Physiology	PPP lecture & educational video presentation	Daily & monthly exa.
26	2	Physiology of Skeletal Muscles	General Physiology	PPP lecture & educational video presentation	Daily & monthly exa.
27	2	Physiology of Skeletal Muscles	General Physiology	PPP lecture & educational video presentation	Daily & monthly exa.
28	2	Examination of reflexes (Motor Function)	General Physiology	PPP lecture & practical application	Daily & monthly exa.
29	2	Seminars and examinations	General Physiology		Daily & monthly exa.
30	2	Seminars and examinations	General Physiology		Daily & monthly exa.

117. 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

118. Learning and Teaching Resources

Required textbooks (curricular books if any)	Medical Physiology (Guyton & Hall)
Recommended books and references (scientific journals, reports…)	Ganong' s Review of Medical Physiology
Electronic References, Websites	–PUB MED – https://www.ncbi.nlm.nih.gov/pubmed – university website.

Course Description Form (Theoretical)

Course Name: Microbiology	
Course Code: 316MB	
Semester / Year: 2025-2026	
Description Preparation Date: 27/10/12025	
Available Attendance Forms: Attendance in the hall for the theoretical material	
Number of Credit Hours (Total) / Number of Units (Total): 60hrs/ 4units	
Course administrator's name (mention all, if more than one name)	
Name: Rasha Abdul Jabbar Najim Email: rasha.aj.najim@uruk.edu.iq	
Course Objectives	
Course Objectives	- Identifying the principles of microbiology and infectious disease, recognizing the general characteristics of microorganisms and the specific characteristics of pathogenic microorganisms such as bacteria, fungi and viruses, the mechanism of disease transmission by these organism, their diagnosis how to differentiate between different types of pathogens, the test used to detect them and their treatment - Identifying non pathogenic (mature) bacteria naturally present in the body and their effects on pathogenic organisms on the one hand ... - Identifying methods of infection transmission especially in the field if dentistry. - The study of immunity, the mechanisms of the body defense, the immune response

	to diseases and advance methods in disease diagnosids...
Teaching and Learning Strategies	
Strategy	Lectures and power points Presentation of the educational videos Guiding students to useful websites Monitoring students thinking processes, learning styles and speed of respo through scientific discussion Lectures and power points Presentation of the educational videos Guiding students to useful websites Monitoring students thinking processes, learning styles and speed response through scientific discussion

No.	Title of the lectures	Hours
1	Morphology, Ultra structures, physiology and metabolism of microorganisms:- -Eukaryotic & Prokaryotic cells -Cell structure of prokaryotes -Comparison between G+ve & G-ve cell wall	2
2	-Microbial growth, growth curve -Metabolism of microorganisms Molecular biology & bacterial genetics	2
3	-Sterilization and Disinfection	2
4	Antibiotic and chemotherapy:- -Antibiotic, sources -Mode of action of antibiotic -Anti-microbial sensitivity tests -Bacterial resistance -Prophylactic use	2
5	- Introduction to general immunology and oral immunology - Non-specific and specific immunity - Antigen - Immunoglobulin - Humeral and Cellular Immunity	2
6	- Cells and organs of the immune system - Complement system - Human leukocyte antigen - Role of complement and HLA in oral disease	2
7	- Oral and mucosal immunity - Autoimmunity and immune tolerance	2
8	- Hypersensitivity reactions - Antimicrobial and immunological defenses of saliva and gingival crevicular fluid components	2
9	Host-parasite relationship & Nosocomial infection -Symbiosis, Commensalism, Amphibiosis, Antagonistic -Sources of infection in hospital and -nosocomial infections -Post-operative wound infection, burns infections	2

10	Streptococci -Pyogenic Streptococci -Lancefield group -Pathogenesis of streptococci	2
	-Epidemiology, treatment and prevention -Viridans streptococci -Pneumococci	
11	Staphylococci -Virulence factors - and pathogenesis -Epidemiology, treatment and prevention	2
12	G- negative diplococcic , Vellionella and Moraxella Neisseria gonorrhea, N. meningitides	2
13	Lactobacilli, Actinomyces and *Corynebacterium diphtheriae* & Diphtheroids	2
14	Bacillus: B. subtilis, B. anthracis and B.ceres	2
15	Clostridium : C. perfringenis , C. tetani, C. botulinum, and difficile	2
16	Enterobacteriaceae -E.coli, Salmonella, Shigella,	2
17	Enterobacter, Klebsiella, proteus, Yersinia	2
18	Mycobacteruim -Tuberculosis & Leprae	2
19	Brucella, Haemophilus, Vibirio	2
20	- Aggregatibacter, porphyromonas, prevotella, Bacteroids	2
21	Fusiforms and Spirochaetes -Fusobacterium, leptotichia	2
22	Treponema and oral Treponema	2
23	Mycoplasma, Chlamydia and Rickittsiae	2
24	Ecology of oral flora -Indigenous flora -Supplemental flora -Transient flora -Sources of oral bacteria -Factors modulating growth of bacteria in the oral cavity	2
25	Microbiology of dental caries -Dental plaque & plaque metabolism - plaque homeostasis -cariogenic microorganisms -Mutans Streptococci -Lactobacilli and Actinomyces-	2
26	Microbial colonization- Caries prevention- Antibacterial factors in saliva- -Vaccination against dental caries	2

27	Microbiology of periodontal disease and Endodontics -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	2
28	Virology	2
	-general structure of viruses -classification	
29	viral replication -Isolation & diagnosis -Oral virology	2
30	- Oral mycology and Oral parasitology -Introduction, epidemiology, transmission -E.histolotica, E.gingivalis, T.tenax -Fungal cells -classification -Candida	2
Total		60

Course Description Form (Practical)

Lab number	Study unit title	Hours
1	Orientation to the Microbiology laboratory	**2**
2	The microscope	**2**
3	Sterilisation and disinfection:	**2**
4	Bacterial growth	**2**
5	Types of culture media	**2**
6	Sampling and transport of test material	**2**
7	Laboratory cultivation of microorganisms	**2**
8	Bacterial identification:1-Macroscopical characteristics (colonial morphology and cultural characteristics).	**2**
9	2. Microscopical examination (morphology of bacterial cells).	**2**
10	Staining	**2**
11	Biochemical tests (part 1).	**2**
12	Biochemical tests(part2).	**2**
13	Biochemical tests(part3).	**2**
14	Antibiotic sensitivity test(part 1).	**2**
15	Antibiotic sensitivity test(part 2).	**2**
16	Serological tests (antigen and antibody detection tests) (part 1).	**2**
17	Serological tests (antigen and antibody detection tests) (part 2).	**2**
18	Nucleic acid assays, Animal pathogenicity test	**2**

19	Staphylococci	**2**
20	Streptococci	**2**
21	Corynebacterium	**2**
22	Spore-forming Gram-positive bacilli: Bacillus spp.	**2**
23	Clostridium spp.	**2**
24	Mycobacterium spp.	**2**
25	Enterobacteriaceae (part1)	**2**
26	Enterobacteriaceae (part2)	**2**
27	Enterobacteriaceae(part3)	**2**
28	Neisseriae spp.	**2**
29	Virology	**2**
30	Mycology	
Total		

Course Description Form (Theoretical)

1. Course Name : Dental Ethics
2. Course Code: **311**
3. Semester / Year: 2025-2026
4. Description Preparation Date: 2025
5. Available Attendance Forms: theoretical lectures
6. Number of Credit Hours (Total) / Number of Units (Total): 30 Hours, 2 Units
7. Course administrator's name (mention all, if more than one name)

Name: Assist. Lec.Yassir Basim
Email: Yasir.basim.abid@uruk.edu.iq

8. Course Objectives

Course Objectives	Dental ethics focuses on the ethical principles and professional standards that guide the practice of dentis Topics covered may include patient autonomy, informed consent, confidentiality, and the phys relationship Patient teeth, legal responsibilities, and ethical issues in patient care, treatment planning, and public healt This course examines ethical dilemmas and decision making in dentistry, with the goal of preparing stu to handle complex situations with integrity and professionalism .....

9. Teaching and Learning Strategies

Strategy	Lectures , e-learning

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	1	Professional Ethics Review	What is meant by “ethics? Why are ethics important? Evolution and philosophy of ethics The terms moral and ethical, obligation and principle	Theoretical lecture using the program PowerPoint PowerPo t	Exams short , and Quarterly , and half year and Fin
2	1	Professional Ethics Review	Dental ethics, professionalism, Human Rights and Law What is a “profession?” What is a “professional?” What is “professionalism?” Dentistry as a Profession Dentistry: The Commercial Picture Dentistry: The Normative Picture The Content of Professional Obligations		
3	1	Professional Ethics Review	What is meant by the “best interests” of our patients? What is “paternalism?” Is good risk management good ethics?	Theoretical lecture using the program PowerPoint PowerPoi	Exams short , and Quarterly , and half year and Fina

			What about compromising quality?		
4	1	Professional Ethics Review	What are codes of ethics? Should I care more about being legal or being ethical? Do we really have obligations to patients? Can dentistry be both a business and a profession?	Theoretical lecture using the program PowerPoint PowerPoi	Exams short , and Quarterly , and half year and Fina
5	1	Principal Features of Dental Ethics	What's special about Dentistry? What's special about dental ethics? Who decides what is ethical? Does dental ethics change? 187 Does dental ethics differ from one country to another?	Theoretical lecture using the program PowerPoint PowerPoi	Exams short , and Quarterly , and half year and Fina
6	1	Principal Features of Dental Ethics	Principal Features of Dental Ethics		
8&7	1	Ethical Law and ethical Theories	History and basic ethical theory History of medical ethics Hammurabi's code of law ippocratic oath Basic grounding of Ethics Humanities (universalstandards) Religious& nonreligious: Political& dogmatic strategies of the state Other groundings of Ethics (theories of ethics): 1- Action theory: 2- Consequentiality theory: 3- Value theory (why theory): Ethics and the law Sources of Ethical Views and Convictions	Theoretical lecture using the program PowerPoint PowerPoint	Exams short , and Quarterly , and half year and Final

9&10	1	Fundamental Principles of dental ethics	1- Patient autonomy 2- Non-maleficence 3- Beneficence 4- Justice 5- Veracity	Theoretical lecture using the program PowerPoint PowerPoi	Exams short , and Quarterly , and half year and Fina
11&12	1	Duties and obligation of dentists	The Ideal Relationship between Dentist and Patient Duties and obligation of dentists Toward their patients THE DENTIST-PATIENT RELATIONSHIP FOUR MODELS OF THE DENTIST-PATIENT RELATIONSHIP The Guild Model The Agent Model The Commercial Model The Interactive Model	Theoretical lecture using the program PowerPoint PowerPoi	Exams short , and Quarterly , and half year and Fina
13&14	1	Duties and obligation of dentists	Duties and obligation of dentists Toward the public and the paramedical profession **The Relationship between Dentistry and the Larger Community**	Theoretical lecture using the program PowerPoint PowerPoi	Exams short , and Quarterly , and half year and Fina
15	1	Duties and obligation of dentists	Duties of dental surgeons and specialists in consultations	Theoretical lecture using the program PowerPoint PowerPoi	Exams short , and Quarterly , and half year and Fina
16	1	Duties and obligation of dentists	Responsibilities of dental surgeons to one another Ideal Relationships between Co professionals	Theoretical lecture using the program PowerPoint PowerPoi	Exams short , and Quarterly , and half year and Fina
17	1	Ethical issues and challenges in dental practice	Ethical Issues in Dental Practice Ethical Questions and Legal Questions Choosing to Re Ethical Published Codes of Conduct and	Theoretical lecture using the program PowerPoint PowerPoi	Exams short , and Quarterly , and half year and Fina

			Ethics Committees Examples of ethical issues and Challenges 1- Access to dental care 2- Abuse of prescriptions by patients 3- Advertising 4- Emergency care 5- Financial arrangements 6- Disclosure and misrepresentation 7- Child abuse		
18&19	1	Ethical issues and challenges in dental practice	8- Competence and judgment 9- Confidentiality 10- Dating patients 11- Delegation of duties 12- Digital communication and social media 13- Harassment 14- Consent		
20	1	Ethical issues and challenges in dental practice	**Patients with Compromised Capacity** Treatment Decisionsfor Patients with Compromised Capacity The Role of Parents and Legal Guardians The Capacity for Autonomous Decision Making Dealing with Patients with Partially Compromised Capacity	Theoretical lecture using the program PowerPoint PowerPoi	Exams short , and Quarterly , and half year and Fina
21	1	The impact of business on dentistry	Conflict of interest - Personal interest versus patient interest - Public versus patient interest - Third-party interests - Professional versus business ethics	Theoretical lecture using the program PowerPoint PowerPoi	Exams short , and Quarterly , and half year and Fina
22	1	Ethics and dental research	Importance of Dental Research - Research in Dental Practice - Ethical Requirements	Theoretical lecture using the program PowerPoint	Exams short , and Quarterly , and half year and Fina

			- Ethics Review Committee Approval	PowerPoi	
23&24	1	Ethics and dental research	Scientific Merit - Social Value - Risks and Benefits - Informed Consent - Confidentiality - Conflict of Roles - Honest Reporting of Result	Theoretical lecture using the program PowerPoint PowerPoi	Exams short , and Quarterly , and half year and Fina
26&25	1	The standard of care	Who determines how a dentist should behave? -A local or a global standard of care? -Transparency of care, guidelines, and protocols. -Shared decision-making, evidence informed decision-making, and evidence-guideddecision-making. -Individualization and the standard of care based on a long-term goal for dental treatment.		
27	1	Ethical Decision Making and Conflicting Obligations	Difficult Professional-Ethical Judgments A Model of Professional-Ethical Decision Making Conflicting Professional Obligations Conflicts Between Professional and Other Obligations Conscientious Disobedience of Professional Obligations	Theoretical lecture using the program PowerPoint PowerPoi	Exams short , and Quarterly , and half year and Fina
28	1	Studying a Profession's Central Values	The Central Values of Dental Practice The Patient's Life and General Health The Patient's Oral Health The Patient's Autonomy The Dentist's Preferred Patterns of Practice Aesthetic Values Efficiency in the Use of Resources Ranking Dentistry's Central Values Thinking about the Case	Theoretical lecture using the program PowerPoint PowerPoi	Exams short , and Quarterly , and half year and Fina

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 Course Evaluation Distribution of the grade out of 100 according to: 15% First and second semester 15% Midterm exam 60% Final Exam 100% Total

12. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	The Dental Ethics Guide, The Den Ethics Manu
Main references (sources)	Reading recent research in reputal journals, recommended supporting boo and referen
Recommended books and references (scientific journals, reports...)	Google Scholar, ResearchGate, ORC
Electronic References, Websites	internet sites

Course Description Form (Theoretical)

119. Course Name: pharmacology
120. Course Code: 317pc
121. Semester / Year: Third Year – First Semester / 2025–2026
122. Description Preparation Date: 26-10-2025
123. Available Attendance Forms: In-class attendance for theoretical lectures
124. Number of Credit Hours (Total) / Number of Units (Total): 60 hours (Theory) / 4 Credit Units
125. Course administrator's name (mention all, if more than one name)
Name: Hiba al-Saadi Email: hiba.alsaadi2016@yahoo.com

126. Course Objectives

Course Objectives: This course aims to enable students to	• Understand the basic concepts of pharmacology and the mechanisms of drug action inside the body • Differentiate between various drug classes and their clinical uses • Recognize drug interactions, adverse effects, and methods of prevention • Develop scientific thinking and proper drug-related clinical decision-making skills • Identify essential drugs relevant to dental practice and acquire scientific knowledge regarding their use • Understand pharmacological terminology • Gain knowledge regarding drug mechanisms, indications, prescriptions, and side effects • Recognize the most important drug uses and interactions in the field of dentistry

127. Teaching and Learning Strategies

Strategy	• Lectures supported by PowerPoint presentations • In-class discussions • Problem-based learning (PBL) • Short clinical case studies • Assignments and periodic examinations • Monitoring students' analytical skills, communication, and response through academic discussions and encouraging scientific activities

128. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2	Understand general pharmacology principles	Introduction to Pharmacology	PowerPoint lecture	Daily/Monthly/Mid-term/Final exams
2	2	Understand drug absorption, distribution, metabolism, and excretion	Pharmacokinetics & Pharmacodynamics	PowerPoint lecture	Daily/Monthly/Mid-term/Final exams
3	2	Understand autonomic drugs	Autonomic Nervous System (Cholinergic Agonists & Antagonists)	PowerPoint lecture	Daily/Monthly/Mid-term/Final exams
4	2	Identify adrenergic receptor agonists	Adrenergic Agonists	PowerPoint lecture	Daily/Monthly/Mid-term/Final exams
5	2	Understand adrenergic blockers	Adrenergic Antagonists	PowerPoint lecture	Daily/Monthly/Mid-term/Final exams
6	2	Understand treatment of	Antihypertensive	PowerPoin	Daily/Monthly/Mi

		hypertension	Drugs	t lecture	d-term/Final exams
7	2	Understand treatment of angina & heart failure	Management of Angina & Heart Failure	PowerPoin t lecture	Daily/Monthly/Mi d-term/Final exams
8	2	Understand antiarrhythmic therapy	Management of Arrhythmia	PowerPoin t lecture	Daily/Monthly/Mi d-term/Final exams
9	3	Understand anticoagulant, antiplatelet, antihyperlipidemic drugs, and local hemostatic agents in dentistry	Anticoagulants, Antiplatelets, Anti-hyperlipidemics & Local Hemostatics	PowerPoin t lecture	Daily/Monthly/Mi d-term/Final exams
10	2	Understand CNS depressants	CNS Drugs (Sedatives, Hypnotics, Antiseizure)	PowerPoin t lecture	Daily/Monthly/Mi d-term/Final exams
11	2	Understand psychiatric drugs	Antipsychotic & Antidepressant Drugs	PowerPoin t lecture	Daily/Monthly/Mi d-term/Final exams
12	2	Understand anesthesia	Local & General Anesthetics	PowerPoin t lecture	Daily/Monthly/Mi d-term/Final exams
13	2	Understand analgesics & drug abuse	Opioid Analgesics & Drugs of Abuse	PowerPoin t lecture	Daily/Monthly/Mi d-term/Final exams
14	2	Understand diabetes therapy	Management of Diabetes Mellitus	PowerPoin t lecture	Daily/Monthly/Mi d-term/Final exams
15	2	Understand gastrointestinal pharmacology	Drugs Affecting GIT	PowerPoin t lecture	Daily/Monthly/Mi d-term/Final exams
Semester Break -					
16	3	Understand respiratory drug therapy	Respiratory System Drugs (Antihistamines & Corticosteroids)	PowerPoin t lecture	Daily/Monthly/Mi d-term/Final exams
17	2	Understand NSAIDs	NSAIDs (Part 1)	PowerPoin t lecture	Daily/Monthly/Mi d-term/Final exams
18	2	Understand NSAIDs & corticosteroids in dentistry	NSAIDs (Part 2) & Steroids in Dentistry	PowerPoin t lecture	Daily/Monthly/Mi d-term/Final exams
19	2	Understand antimicrobials	Principles of Antimicrobial Therapy	PowerPoin t lecture	Daily/Monthly/Mi d-term/Final exams
20	2	Understand cell wall–targeting antibiotics	Cell Wall Inhibitors (Part 1)	PowerPoin t lecture	Daily/Monthly/Mi d-term/Final

					exams
21	2	Continue antibiotic pharmacology	Cell Wall Inhibitors (Part 2)	PowerPoint lecture	Daily/Monthly/Mid-term/Final exams
22	2	Understand protein synthesis inhibitors	Protein Synthesis Inhibitors	PowerPoint lecture	Daily/Monthly/Mid-term/Final exams
23	3	Understand other major antimicrobial classes	Quinolones, Folic Acid Antagonists & Antimycobacterial Drugs	PowerPoint lecture	Daily/Monthly/Mid-term/Final exams
24	2	Understand antifungal & antiviral therapy	Antifungal, Antiviral & Antiprotozoal Drugs	PowerPoint lecture	Daily/Monthly/Mid-term/Final exams
25	2	Understand hormone therapy	Sex Hormones & Contraceptives	PowerPoint lecture	Daily/Monthly/Mid-term/Final exams
26	2	Understand thyroid medications	Thyroid Hormones & Anti-thyroid Drugs	PowerPoint lecture	Daily/Monthly/Mid-term/Final exams
27	1	Understand cancer chemotherapy basics	Anticancer Drugs	PowerPoint lecture	Daily/Monthly/Mid-term/Final exams
28	1	Understand dental clinic medications	Dental Pharmacology: Drugs & Chemicals in Dentistry	PowerPoint lecture	Daily/Monthly/Mid-term/Final exams
29	1	Understand anti-caries & plaque prevention drugs	Anti-carries Agents & Plaque Prevention	PowerPoint lecture	Daily/Monthly/Mid-term/Final exams
30	2	Identify emergency drugs in dentistry	Essential Emergency Drugs in Dental Practice	PowerPoint lecture	Daily/Monthly/Mid-term/Final exams

129. 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

Course Evaluation (100 Marks)

- Mid-term exam: **15%**
- Annual effort (daily + monthly exams, assignments, activities): **25%**
- Final practical exam: **20%**
- Final theoretical exam: **40%**

130. Learning and Teaching Resources

Required textbo (curricular books, if any)	
Main references (source	✓ Lippincott's Illustrated Reviews: Pharmacology, 8th Ed., 2023 ✓ Contemporary Dental Pharmacology: Evidence-Based

	Considerations, 2019 ✓ Basic & Clinical Pharmacology, 16th Ed., 2024 ✓ Katzung – Basic & Clinical Pharmacology ✓ Lippincott's Illustrated Reviews: Pharmacology
Recommended books and references (scientific journals, reports…)	✓ Pharmacology and Therapeutics for Dentistry, 7th Ed., 2017 ✓ Goodman & Gilman's: The Pharmacological Basis of Therapeutics
Electronic Referenc Websites	✓ www.drugs.com ✓ www.medscape.com ✓ www.accesspharmacy.com ✓ PubMe

Course Description Form (Practical)

131. Course Name: Practical (Laboratory) Pharmacology
132. Course Code: PC317
133. Semester / Year: Third Year – First Semester / 2025–2026
134. Description Preparation Date: 26-10-2025
135. Available Attendance Forms: In-laboratory attendance
136. Number of Credit Hours (Total) / Number of Units (Total): 60 hours (Practical) / 2 Credit Units
137. Course administrator's name (mention all, if more than one

name)

Name: Hiba Al-Saadi
Email: hiba.alsaadi2016@yahoo.com

138. Course Objectives

Course Objectiv

- Apply theoretical knowledge practically
- Enhance problem-solving skills
- Develop ability to use multiple learning tools
- Identify essential drugs relevant to dentistry
- Learn pharmacological terminology
- Understand mechanisms, indications, prescriptions & adverse effects of drugs used in dentistry
- Train students on correct prescription writing and accuracy

139. Teaching and Learning Strategies

Strategy

- Guided laboratory instruction
- Presentation of pharmaceutical preparations
- Real-prescription simulation
- Laboratory result discussions
- Group-based learning
- Hands-on experimental sessions
- PowerPoint lectures
- Educational videos
- Directing students to beneficial online sources
- Continuous monitoring and scientific discussion

140. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2	Understand lab introduction & animal handling	Introduction & Animal Handling (e.g., rabbits)	PowerPoint + Lab + Videos	Daily & Final Exams + Seminars + Lab Activity
2	2	Understand oral administration of drugs	Routes of Drug Administration – Oral (Part 1)	Lecture + Lab	Daily & Final Exams + Seminars + Lab Activity
3	2	Understand parenteral drug administration	Routes of Drug Administration – Parenteral (Part 2)	Lecture + Lab	Daily & Final Exams + Seminars + Lab Activity
4	2	Understand PK clinical parameters	Clinical Pharmacokinetics (Part 1)	Lecture + Practical Demo	Daily & Final Exams + Seminars + Lab Activity
5	2	Continue PK clinical concepts	Clinical Pharmacokinetics (Part	Lecture + Practical	Daily & Final Exams + Seminars

			2)	Demo	+ Lab Activity
6	2	Demonstrate dosage forms	Common Dosage Forms (Part 1)	Lecture + Demo	Daily & Final Exams + Seminars + Lab Activity
7	2	Demonstrate dental dosage forms	Dosage Forms in Dentistry (Part 2)	Lecture + Demo	Daily & Final Exams + Seminars + Lab Activity
8	2	Understand cholinergic effects	Cholinergic Agonists & Antagonists (Physostigmine vs Curare)	Lecture + Practical Demo	Daily & Final Exams + Seminars + Lab Activity
9	2	Understand drug effect on BP	β-Blockers & BP Effect	Lecture + Practical	Daily & Final Exams + Seminars + Lab Activity
10	2	Evaluate nitrates	Nitrates Effect on Volunteers	Lecture + Lab	Daily & Final Exams + Seminars + Lab Activity
11	2	Evaluate arterial pressure effects	Drugs & Arterial BP	Lecture + Lab	Daily & Final Exams + Seminars + Lab Activity
12	2	Understand ocular effects	Effects of Drugs & Light on Human Eye	Lecture + Lab	Daily & Final Exams + Seminars + Lab Activity
13	2	Evaluate ocular drug effects	Drug & Light Effect on Animal Eye	Lecture + Lab	Daily & Final Exams + Seminars + Lab Activity
14	2	Understand parasympathomimetic effects	Parasympathomimetics	Lecture + Lab	Daily & Final Exams + Seminars + Lab Activity
15	2	Evaluate skin responses	Skin Response to Histamine & Adrenaline	Lecture + Lab	Daily & Final Exams + Seminars + Lab Activity
- —	*Semester Break* *Assessment*				
16	2	Evaluate antiepileptics	Effects of Antiepileptics	Lecture + Lab	Daily & Final Exams + Seminars + Lab Activity
17	2	Evaluate analgesics	Evaluation of Analgesics	Lecture + Lab	Daily & Final Exams + Seminars + Lab Activity
18	2	Evaluate opioid analgesics	Evaluation of Opioids	Lecture + Lab	Daily & Final Exams + Seminars + Lab Activity
19	2	Evaluate NSAIDs	Evaluation of Anti-inflammatory Drugs	Lecture + Lab	Daily & Final Exams + Seminars + Lab Activity
20	2	Understand local anesthesia	Local Anesthesia	Lecture + Demo	Daily & Final Exams + Seminars

					+ Lab Activity
21	2	Understand general anesthesia	General Anesthesia	Lecture + Demo	Daily & Final Exams + Seminars + Lab Activity
22	2	Train on prescription writing	Prescription Writing (Part 1)	Lecture + Practical Training	Daily & Final Exams + Seminars + Lab Activity
23	2	Continue Rx writing	Prescription Writing (Part 2)	Lab + Demo	Daily & Final Exams + Seminars + Lab Activity
24	2	Continue Rx writing	Prescription Writing (Part 3)	Lab Training	Daily & Final Exams + Seminars + Lab Activity
25	2	Understand oral conditions treatment	Oral Conditions & Treatment	Lecture + Lab	Daily & Final Exams + Seminars + Lab Activity
26	2	Write prescriptions for common cases	Prescriptions for Common Clinical Conditions	Practical	Daily & Final Exams + Seminars + Lab Activity
27	2	Understand oral hygiene prep	Toothpastes & Mouthwashes	Lecture + Demo	Daily & Final Exams + Seminars + Lab Activity
28	2	Understand dental preparations	Oro-dental Preparations (Part 1)	Practical	Daily & Final Exams + Seminars + Lab Activity
29	2	Continue dental preparations	Oro-dental Preparations (Part 2)	Practical	Daily & Final Exams + Seminars + Lab Activity
30	2	Understand dental infection prevention	Dental Health & Endocarditis Prevention	Practical	Daily & Final Exams + Seminars + Lab Activity

141. 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

- Annual effort (daily, monthly & practical tasks): **7%**
- Final practical exam: **20%**

142. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Laboratory Manual of Pharmacology
Main references (sources)	• Clinical Pharmacology Handbook • Lippincott's Illustrated Reviews: Pharmacology (2023) • Contemporary Dental Pharmacology (2019) • Basic & Clinical Pharmacology (2024)

Recommended books and references (scientific journals, reports…)	• Pharmacology and Therapeutics for Dentistry, 2017 • WHO drug fact sheets
Electronic References, Websites	• www.webmd.com • www.fda.gov • www.mims.co

Course Description Form (Theoretical)

Course Name:
Crown & Bridge
Course Code:
319 CV
Semester / Year:
2025-2026
Description Preparation Date:
9 October 2025
Available Attendance Forms:
Number of Credit Hours (Total) / Number of Units (Total)
80Total (8 Theoretical)(72 practical)
Course administrator's name (mention all, if more than one name)
Name: Ruqaya A.abd Al Razak Email:ruqayaani@gmail .com

Course Objectives

Course Objectives	1-Teaching the basic principles regarding cro &bridge 2-Encourging stident to complete the course plane 3-Monitoring adherence to the study plan

Teaching and Learning Strategies

Strategy	1-Knowlede of the basic principles of crown & bridges 2-Training in making crowns &bridges

Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	**Evaluation method**
	1 1 1 1 1 1 1 1 1 1 1 1 1 1		Definitions Biomechanical principles of of tooth preparation: Biomechanical principles of tooth preparation: Biomechanical principles of tooth preparation: Full metal crown Full metal crown Porcelain fused to metal crown Porcelain fused to metal crown Completeceramic crown (Porcelain Jacket Crown Complete ceramic crown (Porcelain Jacket Crown) Partial veneer crown (three-quarter crown) Partial veneer crown (three-quarter crown) Post crown Post crown	Teoretical lecture	Sally Questions

	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 2 2		Impression for crown and bridge work Impression for crown and bridge work Provisional restoration Provisional restoration Working cast and dies Working cast and dies Waxing, investing, casting Waxing, investing, casting Finishing of the casting and clinical try-in Finishing of the casting and clinical try-in Cementation Cementation CAD /CAM Technology for crown construction CAD /CAM Technology for crown construction **Laboratory sessions** Introduction on the lab work, phantom heads and teeth manikins. Demonstration about the rotary instrum and how to cut geometrical cavities (Part Demonstration about the rotary instrum and how to cut geometrical cavities (Part Demonstration on full metal crown preparation on lower 1 st molar		

	2		Demonstration on full metal cro preparation on lower 2nd molar		
	2		Practicing lab under supervision		
	2		Practicing lab under supervision		
	2		Practical assessment of full metal crown preparation on lower 1 st molar.		
	2		Demonstration on porcelain fused to metal crown preparation on up		
	2		central incisor.		
	2		Demonstration on porcelain fused to m crown preparation on upper lateral incisor		
	2		Practicing lab under supervision		
	2		Practicing lab under supervision.		
	2		Practical assessment of porcelain fused to metal crown preparation on upper central incisor.		
	2		Demonstration on post crown preparation on extracted root ca filled upper canine.		
	2		Demonstration on post crown preparation on extracted root ca filled		
	2		Demonstration on post crown preparation on extracted root ca filled lower 1 st premolar.		
	2		Practicing lab under supervision.		
	2		Practicing lab under supervision.		
	2		Practical assessment of post crown preparation on extracted root canal filled upper canine.		
	2		Demonstration on special tray constructi		

	2 2 2 2 2 2 2 2 2 2 2 2		Demonstration on impression materials used in Fixed Prosthodontics. Demonstration on impression techniques in Fixed Prosthodontics. 2 2 Demonstration on die construction using dowel pin. Demonstration on provisional restoration (Part 1): Materials. Demonstration on provisional restoration (Part 2): Techniques. Demonstration on direct waxing for p crown construction on upper canine. Demonstration on indirect waxing technique. Demonstration on investing and casting. Demonstration on cleaning and finishing of the cast restoration. Final assessment of the practical work. Final practical exam.		

85.Course Evaluation

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

86.Learning and Teaching Resources

Required textbooks (curricular books, if any)	Contemporary Fixed Prosthodontics
Main references (sources)	
Recommended books and references (scientific journals, reports...)	Fundementals of fixed prosthodontics
Electronic References, Websites	Any videos available on youtube

Course Description Form (Theoretical)

1. Course Name :Dental radiology
2. Course Code: RL 320
3. Semester / Year: 2025-2026
4. Description Preparation Date: 2025
5. Available Attendance Forms: theoretical lectures & labs
6. Number of Credit Hours (Total) / Number of Units (Total):
30 Hours theortical+ 60 hours practical , 4 Units
7. Course administrator's name (mention all, if more than one name)
Prof. Luay N. Kaka Email: luaynkaka@uruk.edu.iq
8. Course Objectives

Course Objectives	Qualifying trained dentists to work on various x-ray devices How to deal with radioactive wax and protect patients and workers. Basics of X-ray prescribing as needed Reading different types of x-ray films and diagnosing some diseases in the maxillofacial area Teaching students how to deal with patients and deal with some special cases a prepare them to enter clinics in the next stage. **.....**

9. Teaching and Learning Strategies

Strategy	Weekly discussions Practical training on the devices Practical requirements for each student include a certain number of cases Weekly exams (oral and written), in addition to a quarterly exam to evalu the students' practical level, and a final practical exam.

10. Course structure

Week	Hours	Intended Learning Outcomes	Unit / Topic Name	Learning Method	Assessment Method
1	1	Introduction and definitions of radiation nature and types of radiation	Radiation Physics	Whiteboard presentation	Daily patient examinations and assessments
2	1	X-ray machine, X-ray interaction with matter, material composition	Radiation Production	Whiteboard presentation	Daily patient examinations and assessments
3	1	Types of X-ray films, processing cycle, darkroom, intensifying screen	Film Imaging	Whiteboard presentation	Daily patient examinations and assessments
4	1	Low inverse square law and dose measurement	X-ray Beam Controlling Factors	Whiteboard presentation	Daily patient examinations and assessments
5	1	Sharpness, distortion, image characteristics, and artifacts	Projection Geometry	Whiteboard presentation	Daily patient examinations and assessments
6	1	Direct vs. indirect effects, deterministic vs. stochastic effects	Biological Effects of Radiation	Whiteboard presentation	Daily patient examinations and assessments
7	1	Source of exposure, dose limits, exposure risks, and reduction in dental field	Safety and Protection	Whiteboard presentation	Daily patient examinations and assessments
8	1	Periapical, bitewing, and occlusal radiographs	Intraoral Projection	Whiteboard presentation	Daily patient examinations and assessments
9	1	Strengths, limitations, comparison with conventional radiography, indications	Digital Radiography	Whiteboard presentation	Daily patient examinations and assessments
10	1	Patient management, contrast materials,	Patient Managemen	Whiteboard presentation	Daily patient examinations and

		localization techniques	t		assessments
11	1	Technique, indications, image evaluation	Cephalometric Imaging	Whiteboard presentation	Daily patient examinations and assessments
12	1	Principles, technique, positioning, interpretation	Panoramic Imaging	Whiteboard presentation	Daily patient examinations and assessments
13	1	Types, indications, interpretation	Craniofacial Radiography	Whiteboard presentation	Daily patient examinations and assessments
14	1	Principles, components, strengths, limitations	Computed Tomography (CT)	Whiteboard presentation	Daily patient examinations and assessments
15	1	Clinical applications in maxillofacial region, anatomy, interpretation	Computed Tomography (CT)	Whiteboard presentation	Daily patient examinations and assessments
16	1	Teeth, supporting alveolar structures, maxillary and midface bones	Radiographic Anatomy – Part I	Whiteboard presentation	Daily patient examinations and assessments
17	1	Teeth, supporting structures of jaws, maxillary and midface bones	Radiographic Anatomy – Part II	Whiteboard presentation	Daily patient examinations and assessments
18	1	CT, MRI, ultrasound	Advanced Imaging Techniques	Whiteboard presentation	Daily patient examinations and assessments
19	1	Imaging modalities and indications	Radiography and Dental Implants	Whiteboard presentation	Daily patient examinations and assessments
20	1	Infection control in radiology clinic, patient and operator protection	Infection Control	Whiteboard presentation	Daily patient examinations and assessments
21	1	Radiographic examination and guidelines for requesting radiographs	Diagnostic Imaging Prescription	Whiteboard presentation	Daily patient examinations and assessments
22	1	Interpretation of dental caries and periodontal disease	Radiographic Interpretation of Common Diseases	Whiteboard presentation	Daily patient examinations and assessments
23	1	Dental and non-dental cysts	Jaw Cysts	Whiteboard presentation	Daily patient examinations and

					assessments
24	1	Acquired and developmental anomalies	Dental Abnormalities	Whiteboard presentation	Daily patient examinations and assessments
25	1	Periapical osteomyelitis, osteomyelitis, pericoronitis	Inflammatory Jaw Conditions	Whiteboard presentation	Daily patient examinations and assessments
26	1	Dental injuries, alveolar fractures, tooth and bone fractures	Trauma	Whiteboard presentation	Daily patient examinations and assessments
27	1	TMJ anatomy and application	Temporomandibular Joint Disorders	Whiteboard presentation	Daily patient examinations and assessments
28	1	Imaging techniques and interpretation	Salivary Gland Disease	Whiteboard presentation	Daily patient examinations and assessments
29	1	Craniofacial deformities (cleft lip and palate)	Facial and Cranial Deformities	Whiteboard presentation	Daily patient examinations and assessments
30	1	Indications, strengths, limitations	Computed Tomography (CT)	Whiteboard presentation	Daily patient examinations and assessments

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 Course Evaluation
Distribution of the grade out of 100 according to:
1
15% First and second semester
15% Midterm exam
60% Final Exam
100% Total

12.Learning and Teaching Resources

Required textbooks (curricular books, if any)	1. Oral radiology -Principles and interpretation (White and pharoah's 8th ed.) 2. An atlas of dental radiographic anatomy (Kasle 4th ed.)
Main references (sources)	• Fundamentals of oral radiology. • Essentials of Dental Radiography and Radiology
Recommended books and references (scientific journals, reports...)	Google Scholar, ResearchGate, ORCID
Electronic Referenc Websites	internet sites

Course structure (practical)

Week	Hours	Intended Learning Outcomes	Unit / Topic Name	Theoretical / Practical	Learning Method	Assessment Method
1	2	X-ray machine and production of X-ray	Dental Radiology	Theoretical / Practical	Discussions + Practical training	Student discussions + practical assessment + weekly exams
2	2	X-ray film (types and indication)	Dental Radiology	Theoretical / Practical	Discussions + Practical training	Student discussions + practical assessment + weekly exams
3	2	Intraoral techniques (periapical, bite-wing, occlusal films)	Dental Radiology	Theoretical / Practical	Discussions + Practical training	Student discussions + practical assessment + weekly exams
4	2	Ideal radiographic projection	Dental Radiology	Theoretical / Practical	Discussions + Practical training	Student discussions + practical assessment + weekly exams
5	2	Hazards and protection of radiation	Dental Radiology	Theoretical / Practical	Discussions + Practical training	Student discussions + practical assessment + weekly exams
6	2	Anatomical landmarks of the maxilla	Dental Radiology	Theoretical / Practical	Discussions + Practical training	Student discussions + practical assessment + weekly exams
7	2	Anatomical landmarks of the mandible	Dental Radiology	Theoretical / Practical	Discussions + Practical training	Student discussions + practical assessment + weekly exams
8	2	Dental anomalies	Dental Radiology	Theoretical / Practical	Discussions + Practical	Student discussions + practical assessment +

					training	weekly exams
9	2	Dental panoramic radiography	Dental Radiology	Theoretical / Practical	Discussions + Practical training	Student discussions + practical assessment + weekly exams
10	2	Common diseases (caries, PDL, inflammatory diseases)	Dental Radiology	Theoretical / Practical	Discussions + Practical training	Student discussions + practical assessment + weekly exams
11	2	Cysts (odontogenic and non-odontogenic)	Dental Radiology	Theoretical / Practical	Discussions + Practical training	Student discussions + practical assessment + weekly exams
12	2	CBCT (indication and anatomy)	Dental Radiology	Theoretical / Practical	Discussions + Practical training	Student discussions + practical assessment + weekly exams
1 + 13 + 14	6	Clinical practical training	Dental Radiology	Practical	Practical clinical training	Clinical assessment
16 + 17 + 18 + 19	8	Clinical practical training	Dental Radiology	Practical	Practical clinical training	Clinical assessment
20 + 21 + 22 + 23	8	Clinical practical training	Dental Radiology	Practical	Practical clinical training	Clinical assessment

Course Description Form (Theoretical)

13.Course Name:
Conservative and esthetics dentistry
14.Course Code:
319 CV
15.Semester / Year:
2025-2026
16.Description Preparation Date:
26-10-2025
17.Available Attendance Forms:
Attendance in the classroom for theoretical material and clinical clinics
18.Number of Credit Hours (Total) / Number of Units (Total)
30 hours/60 credit hours 150 practical hours (6 credit hours)
19.Course administrator's name (mention all, if more than one name)
Name: A.L Mina Mohammed Ghani Chabuk Email: minachabuk@yahoo.com
20.Course Objectives

Course Objectives	Providing dental students with comprehensive knowledge on methods performing patient examinations, diagnosing various conditions, and apply

clinical understanding and knowledge in treatment to become community denti
In this course, students are clinically trained in restorative dentistry (fillings/r
fillings/crowns and bridges). Students also undergo clinical training on patients
the dental clinic under the supervision of specialized professors. Students are a
trained to recognize and handle the tools used in restorative dentistry, and
provided with comprehensive knowledge of the basic principles of creating de
cavities and filling them with various metal and light fillings. Students are tau
the practical steps of apical fillings and are trained in the processes of prepar
fixed crowns and bridges and replacing missing teeth. Students are also trained
evaluate their mistakes and improve their skills.

21. Teaching and Learning Strategies

Strategy

- Knowledge and Understanding - A.

Knowledge and training of students on how to examine and diagnose various medi
conditions. - Focus on the clinical steps for preparing crowns and bridges
teeth and replacing missing teeth.

Students acquire a comprehensive knowledge of the clinical steps for root ca
fillings and their application. Strategy

B. Subject-Specific Skills -
Students acquire skills in using various restorative and root canal filling tools
Students acquire clinical skills by enabling them to perform root canal filli
on patients in clinics. Develop their clinical skills by training them to prep
crowns and bridges to replace missing teeth for patients. -
C. Teaching and Learning Methods -
Lectures that stimulate and educate students on problem-solving and problem-solv
techniques.
Monitoring students' thinking, expression, and response speed.
Dentistry. Clinical practical lessons in dental clinics.
Lectures presented using computer programs. Educational films.
Digital cameras.
Practical application on patients.
H - Thinking Skills -
Enhancing thinking skills through problem-based learning. Acquiring the ba
principles set forth in the curriculum. Teaching students methods for solv
problems.
G - General and Transferable Skills
Scientifically preparing students to apply dental treatment skills in the clinical sett
and think about solving problems.
Teaching professional ethics.
Skills acquired by the student to become a dentist capable of treating patients.
Personal Development.

22. Course Structure

Week	Hours	Required learning outcomes	Name of the unit or subject	Learning method	Evaluation method
1	1	Endodontic diagnosis	Conservative and esthetics dentistry	Theoretical lectures using Power Point	Daily, monthly, semi-annual and final exams
2	1	Pain control in	Conservative	Theoretical	Daily, monthly,

			endo.	and esthetics dentistry	lectures using Power Point	semi-annual and final exams
	3	1	Endodontic radiography	Conservative and esthetics dentistry	Theoretical lectures using Power Point	Daily, monthly, semi-annual and final exams
	4	1	Intracanal instruments (1)	Conservative and esthetics dentistry	Theoretical lectures using Power Point	Daily, monthly, semi-annual and final exams
	5	1	Intracanal instruments (2)	Conservative and esthetics dentistry	Theoretical lectures using Power Point	Daily, monthly, semi-annual and final exams
	6	1	Preparation of RCS	Conservative and esthetics dentistry	Theoretical lectures using Power Point	Daily, monthly, semi-annual and final exams
	7	1	Microbiology	Conservative and esthetics dentistry	Theoretical lectures using Power Point	Daily, monthly, semi-annual and final exams
	8	1	Terminology & definition of FPDs	Conservative and esthetics dentistry	Theoretical lectures using Power Point	Daily, monthly, semi-annual and final exams
	9	1	Types of fixed bridges	Conservative and esthetics dentistry	Theoretical lectures using Power Point	Daily, monthly, semi-annual and final exams
	10	1	RC filling materials	Conservative and esthetics dentistry	Theoretical lectures using Power Point	Daily, monthly, semi-annual and final exams
	11	1	Obturation of RCS (1)	Conservative and esthetics dentistry	Theoretical lectures using Power Point	Daily, monthly, semi-annual and final exams
	12	1	Obturation of RCS (2)	Conservative and esthetics dentistry	Theoretical lectures using Power Point	Daily, monthly, semi-annual and final exams
	13	1	Endo. Emergency treatment	Conservative and esthetics dentistry	Theoretical lectures using Power Point	Daily, monthly, semi-annual and final exams
	14	1	Endo-perio relations	Conservative and esthetics dentistry	Theoretical lectures using Power Point	Daily, monthly, semi-annual and final exams
	15	1	Restoration of endo treated teeth	Conservative and esthetics dentistry	Theoretical lectures using Power Point	Daily, monthly, semi-annual and final exams
	16	1	Tooth discoloration and bleaching	Conservative and esthetics dentistry	Theoretical lectures using Power Point	Daily, monthly, semi-annual and final exams
	17	1	Patient selection and examination in FPDs	Conservative and esthetics dentistry	Theoretical lectures using Power Point	Daily, monthly, semi-annual and final exams
	18	1	Clinical consideration	Conservative and esthetics	Theoretical lectures using	Daily, monthly, semi-annual and

			for bridge construction	dentistry	Power Point	final exams
	19	1	Component of fixed bridge, retainers	Conservative and esthetics dentistry	Theoretical lectures using Power Point	Daily, monthly, semi-annual and final exams
	20	1	Component of fixed bridge, pontics and connectors	Conservative and esthetics dentistry	Theoretical lectures using Power Point	Daily, monthly, semi-annual and final exams
	21	1	Soft tissue management /Gingival Displacement.	Conservative and esthetics dentistry	Theoretical lectures using Power Point	Daily, monthly, semi-annual and final exams
	22	1	Impression Materials & Procedures	Conservative and esthetics dentistry	Theoretical lectures using Power Point	Daily, monthly, semi-annual and final exams
	23	1	Tooth discoloration & bleaching	Conservative and esthetics dentistry	Theoretical lectures using Power Point	Daily, monthly, semi-annual and final exams
	24	1	Bite Registration and Articulation	Conservative and esthetics dentistry	Theoretical lectures using Power Point	Daily, monthly, semi-annual and final exams
	25	1	Provisional Restorations	Conservative and esthetics dentistry	Theoretical lectures using Power Point	Daily, monthly, semi-annual and final exams
	26	1	Try-in and Shade Selection	Conservative and esthetics dentistry	Theoretical lectures using Power Point	Daily, monthly, semi-annual and final exams
	27	1	Final Cementation Techniques	Conservative and esthetics dentistry	Theoretical lectures using Power Point	Daily, monthly, semi-annual and final exams
	28	1	Failures in Fixed Prosthodontics	Conservative and esthetics dentistry	Theoretical lectures using Power Point	Daily, monthly, semi-annual and final exams
	29	1	Resin-bonded bridges	Conservative and esthetics dentistry	Theoretical lectures using Power Point	Daily, monthly, semi-annual and final exams
	30	1	Porcelain in Fixed Prosthodontics (Current Ceramic).	Conservative and esthetics dentistry	Theoretical lectures using Power Point	Daily, monthly, semi-annual and final exams

23. Course Evaluation

15% for the semester
Annual study (including summer training, daily and monthly exams, and practical requirements)
25% for the final practical exam
40% for the final theoretical exam

24. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	Endodontics, Engel, Pulp Pathways, Wayne Contemporary Fixed Prosthodontics Basic Considerations in Fixed Prosthodontics. Theoretical and clinical training the use of various materials and techniques in fixed prosthodontics. Fixed and Removable Prosthodontics
Main references (sources)	Fundamentals of fixed prosthodontics. Theoretical and clinical training on the of various materials and techniques in fixed prosthodontics. Fixed and remova prosthodontics.
Recommended books and references (scientific journals, reports...)	
Electronic Referenc Websites	

صحة مجتمع

Course Description Form (Theoretical)

Course Name :Dental radiology	
Course Code: RL 320	
Semester / Year: 2025-2026	
Description Preparation Date: 2025	
Available Attendance Forms: theoretical lectures & labs	
Number of Credit Hours (Total) / Number of Units (Total):	
30 Hours theortical+ 60 hours practical , 4 Units	
Course administrator's name (mention all, if more than one name)	
Prof. Luay N. Kaka Email: luaynkaka@uruk.edu.iq	
Course Objectives	
Course Objectives	Qualifying trained dentists to work on various x-ray devices How to deal with radioactive wax and protect patients and workers. Basics of X-ray prescribing as needed Reading different types of x-ray films and diagnosing some diseases in the maxillofacial area

	Teaching students how to deal with patients and deal with some special cases and prepare ther enter clinics in the next stage. **.....**

Teaching and Learning Strategies

Strategy	Weekly discussions Practical training on the devices Practical requirements for each student include a certain number of cases Weekly exams (oral and written), in addition to a quarterly exam to evaluate the stude practical level, and a final practical exam.

Course structure

Week	Hours	Intended Learning Outcomes	Unit / Topic Name	Learning Method	Assessment Method
1	1	Introduction and definitions of radiation nature and types of radiation	Radiation Physics	Whiteboard presentation	Daily patient examinations and assessments
2	1	X-ray machine, X-ray interaction with matter, material composition	Radiation Production	Whiteboard presentation	Daily patient examinations and assessments
3	1	Types of X-ray films, processing cycle, darkroom, intensifying screen	Film Imaging	Whiteboard presentation	Daily patient examinations and assessments
4	1	Low inverse square law and dose measurement	X-ray Beam Controlling Factors	Whiteboard presentation	Daily patient examinations and assessments
5	1	Sharpness, distortion, image characteristics, and artifacts	Projection Geometry	Whiteboard presentation	Daily patient examinations and assessments
6	1	Direct vs. indirect effects, deterministic vs. stochastic effects	Biological Effects of Radiation	Whiteboard presentation	Daily patient examinations and assessments
7	1	Source of exposure, dose limits, exposure risks, and reduction in dental field	Safety and Protection	Whiteboard presentation	Daily patient examinations and assessments
8	1	Periapical, bitewing, and occlusal radiographs	Intraoral Projection	Whiteboard presentation	Daily patient examinations and assessments
9	1	Strengths, limitations, comparison with conventional radiography, indications	Digital Radiography	Whiteboard presentation	Daily patient examinations and assessments
10	1	Patient management, contrast materials, localization techniques	Patient Management	Whiteboard presentation	Daily patient examinations and assessments
11	1	Technique, indications, image evaluation	Cephalometric Imaging	Whiteboard presentation	Daily patient examinations and assessments
12	1	Principles, technique, positioning, interpretation	Panoramic Imaging	Whiteboard presentation	Daily patient examinations and assessments
13	1	Types, indications, interpretation	Craniofacial Radiography	Whiteboard presentation	Daily patient examinations and assessments
14	1	Principles, components, strengths, limitations	Computed Tomography (CT)	Whiteboard presentation	Daily patient examinations and assessments
15	1	Clinical applications in	Computed	Whiteboard	Daily patient

		maxillofacial region, anatomy, interpretation	Tomography (CT)	presentation	examinations and assessments
16	1	Teeth, supporting alveolar structures, maxillary and midface bones	Radiographic Anatomy – Part I	Whiteboard presentation	Daily patient examinations and assessments
17	1	Teeth, supporting structures of jaws, maxillary and midface bones	Radiographic Anatomy – Part II	Whiteboard presentation	Daily patient examinations and assessments
18	1	CT, MRI, ultrasound	Advanced Imaging Techniques	Whiteboard presentation	Daily patient examinations and assessments
19	1	Imaging modalities and indications	Radiography and Dental Implants	Whiteboard presentation	Daily patient examinations and assessments
20	1	Infection control in radiology clinic, patient and operator protection	Infection Control	Whiteboard presentation	Daily patient examinations and assessments
21	1	Radiographic examination and guidelines for requesting radiographs	Diagnostic Imaging Prescription	Whiteboard presentation	Daily patient examinations and assessments
22	1	Interpretation of dental caries and periodontal disease	Radiographic Interpretation of Common Diseases	Whiteboard presentation	Daily patient examinations and assessments
23	1	Dental and non-dental cysts	Jaw Cysts	Whiteboard presentation	Daily patient examinations and assessments
24	1	Acquired and developmental anomalies	Dental Abnormalities	Whiteboard presentation	Daily patient examinations and assessments
25	1	Periapical osteomyelitis, osteomyelitis, pericoronitis	Inflammatory Jaw Conditions	Whiteboard presentation	Daily patient examinations and assessments
26	1	Dental injuries, alveolar fractures, tooth and bone fractures	Trauma	Whiteboard presentation	Daily patient examinations and assessments
27	1	TMJ anatomy and application	Temporomandibular Joint Disorders	Whiteboard presentation	Daily patient examinations and assessments
28	1	Imaging techniques and interpretation	Salivary Gland Disease	Whiteboard presentation	Daily patient examinations and assessments
29	1	Craniofacial deformities (cleft lip and palate)	Facial and Cranial Deformities	Whiteboard presentation	Daily patient examinations and assessments
30	1	Indications, strengths, limitations	Computed Tomography (CT)	Whiteboard presentation	Daily patient examinations and assessments

25.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 Course Evaluation
Distribution of the grade out of 100 according to:
15% First and cond semester
15% Midterm exam
60% Final Exam

100% Total	

26.Learning and Teaching Resources

Required textbo (curricular books, any)	3. Oral radiology -Principles and interpretation (White and pharoah's 8th ed.) 4. An atlas of dental radiographic anatomy (Kasle 4th d.)
Main referen (sources)	• Fundamentals of oral radiology. • Essentials of Dental Radiography and Radiology
Recommended books and references (scientific journals, reports...)	Google Scholar, ResearchGate, ORCID
Electronic Referenc Websites	**internet sites**

Course structure (practical)

Week	Hours	Intended Learning Outcomes	Unit / Topic Name	Theoretical / Practical	Learning Method	Assessment Method
1	2	X-ray machine and production of X-ray	Dental Radiology	Theoretical / Practical	Discussions + Practical training	Student discussions + practical assessment + weekly exams
2	2	X-ray film (types and indication)	Dental Radiology	Theoretical / Practical	Discussions + Practical training	Student discussions + practical assessment + weekly exams
3	2	Intraoral techniques (periapical, bite-wing, occlusal films)	Dental Radiology	Theoretical / Practical	Discussions + Practical training	Student discussions + practical assessment + weekly exams
4	2	Ideal radiographic projection	Dental Radiology	Theoretical / Practical	Discussions + Practical training	Student discussions + practical assessment + weekly exams
5	2	Hazards and protection of radiation	Dental Radiology	Theoretical / Practical	Discussions + Practical training	Student discussions + practical assessment + weekly exams
6	2	Anatomical landmarks of the	Dental Radiology	Theoretical / Practical	Discussions + Practical	Student discussions + practical assessment +

		maxilla			training	weekly exams
7	2	Anatomical landmarks of the mandible	Dental Radiology	Theoretical / Practical	Discussions + Practical training	Student discussions + practical assessment + weekly exams
8	2	Dental anomalies	Dental Radiology	Theoretical / Practical	Discussions + Practical training	Student discussions + practical assessment + weekly exams
9	2	Dental panoramic radiography	Dental Radiology	Theoretical / Practical	Discussions + Practical training	Student discussions + practical assessment + weekly exams
10	2	Common diseases (caries, PDL, inflammatory diseases)	Dental Radiology	Theoretical / Practical	Discussions + Practical training	Student discussions + practical assessment + weekly exams
11	2	Cysts (odontogenic and non-odontogenic)	Dental Radiology	Theoretical / Practical	Discussions + Practical training	Student discussions + practical assessment + weekly exams
12	2	CBCT (indication and anatomy)	Dental Radiology	Theoretical / Practical	Discussions + Practical training	Student discussions + practical assessment + weekly exams
1 + 13 + 14	6	Clinical practical training	Dental Radiology	Practical	Practical clinical training	Clinical assessment
16 + 17 + 18 + 19	8	Clinical practical training	Dental Radiology	Practical	Practical clinical training	Clinical assessment
20 + 21 + 22 + 23	8	Clinical practical training	Dental Radiology	Practical	Practical clinical training	Clinical assessment

1. Course name

General Pathology

2. Course code

321 PA

3. Year/semester

Academic year 2025-2026

4. Date

5. Attendence

6. Total Credit Hours / Units

60 hrs (6 units)

7. Course Coordinator/Instructor Name

Name: Ali Hussein Alkhafaji Email : : dr_ali_Alkhfaji3@yhoo.com
Ali Makki M.Jaafar ali.m.jaafar@uruk.edu.iq

8. Course Objectives (Practical)

Acquire practical skills in pathological tissue examination.
Acquire skills in preparing pathological tissue.
Acquire skills in using laboratory equipment for pathological tissue examination, such as the light microscope.
Prepare and utilize illustrative aids.

9. Teaching and Learning Strategies (Practical)

Conducting microscopic examinations of pathological tissue samples.
Conducting scientific discussions.

10. Course Structure (Practical).

Assessment Method	Learning Method	Unit/Topic Name	Required Learning Outcomes	Hrs.	Wks.
1.Sudden oral and written quizzes. 2.Midterm practical exam 3.Final practical exam.	Practical sessions	General Pathology	• Reading cellular and tissue slides under the microscope. • Describing gross specimens: describing the external appearance of affected organs and surgically excised tissues. • Interpreting reports: Reading and nderstanding pathology reports and interpreting their results. • Correlating lab	**60**	**30**

			results With clinical data: integrating pathological (lab) information with the patient's clinical status to reach a diagnosis. • Differential diagnosis: proposing a list of potential diseases (differential diagnoses) based on pathology results.		

11. Course Assessment

Grading Distribution of 100 Marks (Points) according to the Student's Assigned Tasks, such as:
Daily Preparation (and Participation)
Daily/Short Quizzes
Oral Exams (Assessment/Participation)
Monthly Exams/Tests
Written Exams/Assessments (Summative/Final)
Reports and Projects
1.Sudden oral and written quizzes.
2.Midterm practical exam
3.Final practical exam.

12. Learning and Teaching Resources

Required Textbooks (Curricular/Mandatory, if any)	Robbins and Cotran pathologic basis of disease
Main References (Primary Sources)	
Supporting Books and Recommended References (Scientific Journals, Reports, etc.)	
Electronic References and Internet Websites	

Laboratory Sessions

No.	Laboratory sessions	Hours
1	Introduction to general pathology and biopsy	**2**
2	Power points slides	**2**
3	Power points and histopathological slides demonstrating fatty changes in liver and cloudy swelling in kidney The gross appearance of reversible cell injury	**2**
4	Power points and histopathological slides of coagulative necrosis in heart muscles and caseous necrosis in lung With explanation of gross appearance	**2**
5	Power points and histopathological slides of anthracosis of lung and hemosiderosis in liver With explanation of gross appearance	**2**
6	Power points and histopathological slides of amyloidosis in kidney, H & E With explanation of gross appearance E.A. and congo-red stain	**2**
7	Power points and histopathological slides of acute appendicitis, appendicular abscess, osteomyelitis and lobar pneumonia (lung)	**2**
8	Power points and histopathological slides of chronic cholecystitis in gall bladder with explanation of gross appearance, osteomyelitis in bone and keloid in skin and granulation tissue	**2**
9	Power points and histopathological slides of TB in lung and endometriosis With explanation of gross appearance	**2**
10	Power points and histopathological slides of Sarcoidosis With explanation of gross appearance	**2**
11	Power points and slides of CVC in lung and liver With explanation of gross appearance	**2**
12	Power points slides of blood vessels thrombosis	**2**
13	Power points and histopathological slides of lipoma, S.C papilloma of skin With explanation of gross appearance	**2**
14	Power points and histopathological slides of osteoma of the bone	**2**
15	Power points and histopathological slides of S.C. carcinoma and adenocarcinoma of the colon With explanation of gross appearance	**2**
16	Power points and histopathological slides of thyrotoxicosis of thyroid and hashimoto's thyroiditis in thyroid With explanation of gross appearance	**2**
17	Data show slides	**2**
18	Data show slides	**2**
19	Data show slides	**2**
20	Power points and histopathological slides of myocardial infarction of heart and atherosclerosis in blood vessels	**2**

	With explanation of gross appearance	
21	Power points and histopathological slides of chronic gastritis in stomach and peptic ulcer With explanation of gross appearance	**2**
22	Power points and histopathological slides of liver cirrhosis and hepatocellular carcinoma With explanation of gross appearance	**2**
23	Power points and histopathological slides of emphysema in lung and chronic bronchitis in bronchus With explanation of gross appearance	**2**
24	Data show	**2**
25	Data show	**2**
26	Data show	**2**
27	Data show	**2**
28	Data show	**2**
29	Power points slides	**2**
30	Power points slides	**2**
Total		**60**

Course Description Form (Theoretical)

27.Course Name:
Oral surgery
28.Course Code:
322 OS
29.Semester / Year:
2025-2026
30.Description Preparation Date:
1\11\2025
31.Available Attendance Forms:
Attendance in the lecture hall (theoretical) and in the oral surgery laboratory
32.Number of Credit Hours (Total) / Number of Units (Total)
30 hours of theory (2 credit units) 60 hours of practical work (2 credit units)
33.Course administrator's name (mention all, if more than one name)
Name: 1. Lecturer Dr. Mohammed Saeed Alobaidi B.D.s, C.A.B.M.S Email: Mohammed_S_Majeed@uruk.edu.iq 2. Lecturer Dr. Ali Ghalib 3. Lecturer Assistant Dr. Resha Adil
34.Course Objectives

Course Objectives	**The course aims to prepare students to a high**

	level of scientific knowledge in oral surgery, including familiarity with surgical instruments used in surgery, as well as knowledge of local anesthesia types and methods, and associated problems and complications

35. Teaching and Learning Strategies

Strategy	Presentation of microscopic slides of diseases, surgical instruments, and tooth extraction techniques Scientific discussions and seminars using LCD screens • Use of visual aids such as X-ray films and videos • Assessment methods: • Midterm and final practical exa using microscopic slides

36. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	1	**Diagnosis in oral surgery**	Oral Surgery	Theory lectures Using PowerPoi	Quizzes, Midterm, final term
2	1	**Diagnosis in oral surgery**	Oral Surg	Theory lectures Using PowerPoint	Quizzes, Midterm, f term
3	1	**Infection Control in Surgical Practice**	Oral Surg	Theory lectures Using PowerPoint	Quizzes, Midterm, f term
4	1	**Infection Control in Surgical Practice**	Oral Surg	Theory lectures Using PowerPoint	Quizzes, Midterm, f term
5	1	**Extraction of teeth and Contra indications of extraction**	Oral Surg	Theory lectures Using PowerPoint	Quizzes, Midterm, f term
6	1	**Extraction of teeth and Contra indications of extraction**	Oral Surg	Theory lectures Using PowerPoint	Quizzes, Midterm, f term
7	1	**General arrangement for extraction and Dental**	Oral Surg	Theory lectures Using PowerPoint	Quizzes, Midterm, f term

		forceps (types)			
8	1	**General arrangement for extraction and Dental forceps (types)**	Oral Surg	Theory lectures Using PowerPoint	Quizzes, Midterm, f term
9	1	**Techniques of forceps extraction and post-operative instructions**	Oral Surg	Theory lectures Using PowerPoint	Quizzes, Midterm, f term
10	1	**Elevators**	Oral Surg	Theory lectures Using PowerPoint	Quizzes, Midterm, f term
11	1	**Elevators**	Oral Surg	Theory lectures Using PowerPoint	Quizzes, Midterm, f term
12	1	**Complications of dental extraction**	Oral Surg	Theory lectures Using PowerPoint	Quizzes, Midterm, f term
13	1	**Complications of dental extraction**	Oral Surg	Theory lectures Using PowerPoint	Quizzes, Midterm, f term
14	1	**Basic surgical instruments**	Oral Surg	Theory lectures Using PowerPoint	Quizzes, Midterm, f term
15	1	**Introduction to local anesthesia**	Oral Surg	Theory lectures Using PowerPoint	Quizzes, Midterm, f term
16	1	**Pharmacology of local anesthesia**	Oral Surg	Theory lectures Using PowerPoint	Quizzes, Midterm, f term
17	1	**Pharmacology of local anesthesia**	Oral Surg	Theory lectures Using PowerPoint	Quizzes, Midterm, f term
18	1	**Surgical anatomy in local anesthesia**	Oral Surg	Theory lectures Using PowerPoint	Quizzes, Midterm, f term
19	1	**Surgical anatomy in local anesthesia**	Oral Surg	Theory lectures Using PowerPoint	Quizzes, Midterm, f term
20	1	**Instruments of local anesthesia**	Oral Surg	Theory lectures Using PowerPoint	Quizzes, Midterm, f term
21	1	**Techniques of local anesthesia**	Oral Surg	Theory lectures Using PowerPoint	Quizzes, Midterm, f term
22	1	**Techniques of local**	Oral Surg	Theory lectures Using	Quizzes, Midterm, f

		anesthesia		PowerPoint	term
23	1	**Techniques of local anesthesia**	Oral Surg	Theory lectures Using PowerPoint	Quizzes, Midterm, f term
24	1	**Complications of local anesthesia**	Oral Surg	Theory lectures Using PowerPoint	Quizzes, Midterm, f term
25	1	**Complications of local anesthesia**	Oral Surg	Theory lectures Using PowerPoint	Quizzes, Midterm, f term
26	1	**Complications of local anesthesia**	Oral Surg	Theory lectures Using PowerPoint	Quizzes, Midterm, f term
27	1	**Advances in local anesthesia**	Oral Surg	Theory lectures Using PowerPoint	Quizzes, Midterm, f term
28	1	**Conscious sedation**	Oral Surg	Theory lectures Using PowerPoint	Quizzes, Midterm, f term
29	1	**Fundamentals of general anesthesia**	Oral Surg	Theory lectures Using PowerPoint	Quizzes, Midterm, f term
30	1	**Medical emergencies during dental treatment**	Oral Surg	Theory lectures Using PowerPoint	Quizzes, Midterm, f term

37.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

38.Learning and Teaching Resources

Required textbooks (curricular books, if any)	Contemporary oral and maxillofacial surgery 5th edition 2008. 3.
Main references (sources)	Extraction of teeth
Recommended books and references (scientific journals, reports...)	Handbook of Local anesthesia 6th edition 2011.
Electronic References, Websites	Hand book of local anesthesia 7th edition Stanely F. Malamed , Elsevier.2019.

Course Description Form (Theoretical)

39. Course Name: Prosthodontic dentistry
40. Course Code: 310 RP
41. Semester / Year:2024-2025
42. Description Preparation Date:1.11.2025
43. Available Attendance Forms: attendance in the lecture hall and prosthodontic lab
44. Number of Credit Hours (Total) / Number of Units (Total)theory:2 clinical:3
30 hours of theory 2 credit unit 90 hour practical 3 credit unit
45. Course administrator's name (mention all, if more than one name)
Name: samar sabah al saffar Email: samarzaid@gmail .com
46. Course Objectives

Course Objectives	• To prepare the students with good knowledge about prosthodonti appliances especially partial dentures and how to diagnose, treat, and over come difficulties by proper designs..... • ..... • .....

47. Teaching and Learning Strategies

Strategy	Show educational videos and use of many image slides about the subject and slides of real cases

48. Course Structure					
Week	**Hours**	**Required Learning Outcomes**	**Unit or subject name**	**Learning method**	**Evaluation method**
1	1	introduction	• Partial dentures • 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 • Need for classification. 1 61 Arches	Power poin lecture	Quizzes mid term Final term
2	1	Classificati on of Partially Edentulous	• 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	Power point lecture	Quizzes Mid term Final term

3 4 5	1 1 1	Surveying Components od rpd Maxillary major connector	governing the application of the Kennedy classification Method • Principles of surveying • Types of undercuts established by surveying • Factors that determine and affect the path of placement (insertion) and removal of the RPD • Main components of RPD • Major connectors • Requirements of major connectors • Guidelines for design and location of major connectors • Characteristics of major connectors • 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 • Special Structural Requirements for Maxillary Major	Power poin lecture	

6 7	1 1	Mandibular major connecter Rest and rest seat	Connectors • Types of Maxillary Major Connector Strap • Anterior-posterior palatal bars • Combination anterior and posterior palatal strap–type connector • Palatal plate-type connector • U-shaped palatal connector • 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 1 63 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 locatio Definition • Functions • Form & location • Basic types of minor connectors • Tissue stops • Finishing lines • Reaction of Tissue to Metallic Coverage		

8	1	Retention of rpd Extra coronaldirect retainers Stress breaker Indirect retainer Laboratory procedures Laboratory procedures Wax pattern Casting Denture base in rpd	• 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 • Direct retainers • Indirect retainers • The extra coronal retainer 1 64 (Clasp type) • Component parts, Function, and position of clasp assembly parts		
9	1	Record base in rpd Biomechanics Principles of rpddesign Clinical phase of rpd denture Acrylic removable partial denture Flexible removablepartial denture	• Factors affecting the magnitude of retention • The basic principles of clasp design • 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 (Hairpi • Disadvantages of		

10 11	1 1	Repairing of rpd Digitally designed rpd	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 • Internal attachments • Precision Attachments ⎮ Some indications for precision attachments ⎮ Some of the contraindications for precision attachments ⎮ The main types precision attachments 1 65 • Selection of an Attachment f a Removable Partial Denture • Stress breakers ⎮ Types of stress breakers • The main factors influencing the effectiveness of an indirect retainer • The auxiliary functions of indirect retainers • Forms of Indirect Retainers • Auxiliary occlusal rest • Lingual rest • Incisal rest • Canine extensions from occlusal rests • Cingulum bars (continuous bars) and linguo-plates • Modification areas • Rugae support • Blockout and relief • Cast preparation • Types of blockout of master cast ⎮ Parallel blockout ⎮ Shaped blockout ⎮ Arbitrary		

			blockout		
			• Relieving the master cast		
			• Purpose of relief		
			• Sites		
			• Tissue Stops		
			• Duplicating a stone cast		
			• Duplicating material and flas		
			• Impression		
			• Refractory cast		
			• Waxing the framework		
			• Spruing		
			• General rules for spruing		
			• Investing the sprued pattern		
			• Purpose of investment		
			• Burnout		
			• Casting		
			• Casting recovery		
			• Finishing the framework		
12	1		• Sprue removal		
			• The primary function of denture base		
			• Types of denture base according to support		
13	1		• Types of the denture base according to materials		
			• Advantages of metal denture base		
			Disadvantages of metal dentur base		
			• Design consideration of denture base		
			Periodontal consideration of denture base design		
14	1		• Types of artificial teeth		
			• Record bases		
			• Types of record bases according to materials constructed from it		
			• Occlusion rims		
			• Occlusion rims for static jaw relation records		

15 16 17 18 19 20 21 22 23 24	1 1 1 1 1 1 1		• Occlusion rims for recording functional or dynamic jaw relationship record • Mounting casts on the articulator 1 67 • Arrangement of artificial teeth to the opposing cast • Principles that should be taken during arrangement of artificial teeth • Laboratory procedure of arrangement teeth (Example) • Biomechanical consideration • Possible movements of parti dentures • Tooth-tissue–supported prosthes Is • Tooth-supported partial denture • Occlusal Rest Seat Preparation and Denture Movement • Impact of Implants on Movements of Partial Dentures • Difference in Prosthesis Support and Influence on Design • Differentiation Between Two Main Types of Removable Partial Dentures • Difference in Prosthesis Support and Influence on Design • Differentiation Between Two Main Types of Removable Partial Dentures • Components of Partial Denture Design • Implant Considerations in Design • 1st Phase: Education of		

	1 1		patient • 2nd Phase: Diagnosis, Treatment Planning, Design, Treatment Sequencing, and Mouth 1 68 Preparation • 3rd Phase: Support for Dista Extension Denture Bases • 4th Phase: Establishment and Verification of Occlusal Relations and Tooth Arrangements • 5th Phase: Initial Placement Procedures • 6th phase: Periodic Recall • 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 wearing a prosthesis • Clinical procedure for placement • Flexible removable partial dentures • Type of material used for the flexible denture • Support • Retention • 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 1 69 artificial tooth to a RPD • Repair by soldering • Components of CAD/CAM system • Types of Digital Scanner • Digital RPD Framework Design (step by step) • Digital Fabrication Proces		

49.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

50.Learning and Teaching Resources

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

Course Description Form (Theoretical)

51. Course Name: prosthodontics (4th level) \ theory	
52. Course Code: PR410	
53. Semester / Year: 2025-2026	
54. Description Preparation Date: 10\2025	
55. Available Attendance Forms: attendance in the classroom for the theoretical course	
56. Number of Credit Hours (Total) / Number of Units (Total)	
30 hours theory \ 2 credit unit 90 hours clinical \ 3 credit unit	
57. Course administrator's name (mention all, if more than one name)	
Name: Prof.Dr. Hanan Abdulrahman Khalaf (theory&clinical) Email: .khalaf@uruk.edu.iqr Prof. Salah Abdualla (clinical)	
58. Course Objectives	
Course Objectives	• **Introduce students, through the theoretical material, to various topics in the subject o prosthodontics** • **Teach students the practical steps in treating patients with artificial prosthesis** • **Provide students with skills in dealing with patients..** • **.....** • **.....**
59. Teaching and Learning Strategies	
Strategy	Present the theoretical material and explain it in detail on the smart screen. Use the elicitation and response method Urge students to use thinking and problem-solving skills Create a spirit of scientific competition among students through direct and indirect questions related to scientific subjects
60. Course Structure	

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	1		Myology	Theory	Quiz, mid year and final year exam
2	1		Diagnosis and treatment	Theory	
3	1		To be continued diagnosis Mouth preparation	Theory	
4	1		continued mouth preparation		
5	1				
6	1		Impression materials and techniques for R PD	theory	
7	1		To be continued impression		
8	1		Support in FEE RPD		
9	1		Metal check RPD		
10	1		Occlusion in RPD		
11	1		Jaw relation in RPD		
12	1		Trial RPD	theory	Quiz, mid year and final year exam
13	1		Initial placement and adjustment of RPD		
14	1		Pre- prosthetic surgery		
15	1		To be continued pre-prosthetic syrgery		
16	1		Diagnosis and treatment plan CD		
17	1				
18	1		To be continued diagnosis		
19	1		Impression in CD		
20	1		Digital RPD		
21	1		TMJ and mandibular movement		
22	1		Jaw relation-vertical	theory	
23	1		Jaw relation-horizontal		Quiz, mid year and final year exam
24	1				
25	1		Try in stage in CD Insertion of CD		
26	1		Adjustments of CD		
27	1		relining and rebasing of CD		
28	1		Repair of fractured RPD Esthetic RPD	Theory	
29	1		Post insertion complications in CD		
30	1			theory	Quiz, mid year and final year exam

61. 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

62. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	1.Prosthodontic treatment for edentulous patient 2.McCracken removable partial
Main references (sources)	Text book, atlas, besides to book for RPD and CD with paper from internet
Recommended books and references (scientific journals, reports...)	Textbook of complete denture
Electronic References, Websites	•Post insertion problems and their management in complete denture (https://jemds.com/data_pdf/3_fareedi%20honey-POST%20INSERTION%20PROBLEMS.pdf) •Classification System for Partial Edentulism (https://onlinelibrary.wiley.com/doi/10.1053/jopr.2002.126094)

Course Description Form (Practical)

Clinical requirements

1

1 acrylic RPD (free end extension).

2

1acrylic RPD (bounded saddles).

4

1 case repair.

Course Description Form (Theoretical)

Course Name:	
Conservative and esthetics dentistry	
Course Code:	
319 CV	
Semester / Year:	
2025-2026	
Description Preparation Date:	
30-10-2025	
Available Attendance Forms:	
Attendance in the classroom for theoretical material and clinical clinics	
Number of Credit Hours (Total) / Number of Units (Total)	
30 hours/60 credit hours 150 practical hours (6 credit hours)	
Course administrator's name (mention all, if more than one name)	
Name: Ali Waleed Email: aliwalid1986@gmail.com	
Course Objectives	
Course Objectives	Providing dental students with comprehensive knowledge on methods of performing patient examinations, diagnosing various conditions, and applying clinical understanding and knowledge in treatment to become community dentists. In this course, students are clinically trained in restorative dentistry (fillings/root fillings/crowns and bridges). Students also undergo clinical training on patients in the dental clinic under the supervision of specialized professors. Students are also trained to recognize and handle the tools used in restorative dentistry, and are provided with comprehensive knowledge of the basic principles of creating dental cavities and filling them with various metal and light fillings. Students are taught the practical steps of apical fillings and are trained in the processes of preparing fixed crowns and bridges and replacing missing teeth. Students are also trained to evaluate their mistakes and improve their skills.
63.Teaching and Learning Strategies	
Strategy	- Knowledge and Understanding - A. Knowledge and training of students on how to examine and diagnc various medical conditions. - Focus on the clinical steps preparing crowns and bridges for teeth and replacing missing teetl

Students acquire a comprehensive knowledge of the clinical steps for r canal fillings and their application. Strategy

B. Subject-Specific Skills -
Students acquire skills in using various restorative and root canal filli tools. - Students acquire clinical skills by enabling them to perfo root canal fillings on patients in clinics. Develop their clinical sk by training them to prepare crowns and bridges to replace missi teeth for patients. -
C. Teaching and Learning Methods -
Lectures that stimulate and educate students on problem-solving a problem-solving techniques.
Monitoring students' thinking, expression, and response speed.
Dentistry. Clinical practical lessons in dental clinics.
Lectures presented using computer programs. Educational films.
Digital cameras.
Practical application on patients.
H - Thinking Skills -
Enhancing thinking skills through problem-based learning. Acquiring basic principles set forth in the curriculum. Teaching stude methods for solving problems.
G - General and Transferable Skills
Scientifically preparing students to apply dental treatment skills in clinical setting and think about solving problems.
Teaching professional ethics.
Skills acquired by the student to become a dentist capable of treati patients.
Personal Development.

64. Course Structure

Week	Hours	Required learning outcomes	Name of the unit or subject	Learning method	Evaluation method
1	1	Introductio and History of endodontics	Conservative and esthetics dentistry	Theoretical lectures using Power Point	Daily, monthly, semi-annual and final exams
2	1	Basic endodontic	Conservative and esthetics dentistry	Theoretical lectures using	Daily, monthly, semi-

			instruments.		Power Point	annual and final exams
	3	1	Hand and rotary endodontic instruments.	Conservative and esthetics dentistry	Theoretical lectures using Power Point	Daily, monthly, semi-annual and final exams
	4	1	Diagnosis and pathology of the pulp and periapical area.	Conservative and esthetics dentistry	Theoretical lectures using Power Point	Daily, monthly, semi-annual and final exams
	5	1	Access opening.	Conservative and esthetics dentistry	Theoretical lectures using Power Point	Daily, monthly, semi-annual and final exams
	6	1	Working length determination.	Conservative and esthetics dentistry	Theoretical lectures using Power Point	Daily, monthly, semi-annual and final exams
	7	1	Root canal cleaning and shaping.	Conservative and esthetics dentistry	Theoretical lectures using Power Point	Daily, monthly, semi-annual and final exams
	8	1	Obturation.	Conservative and esthetics dentistry	Theoretical lectures using Power Point	Daily, monthly, semi-annual and final exams
	9	1	Radiography in endodontics.	Conservative and esthetics dentistry	Theoretical lectures using Power Point	Daily, monthly, semi-annual and final exams

65.Course Evaluation

15% for the semester
Annual study (including summer training, daily and monthly exams, and practical

requirements) 25% for the final practical exam 40% for the final theoretical exam	
66.Learning and Teaching Resources	
Required textbooks (curricular books any)	Pathway of the pulp
Main references (sources)	Cohen's pathway of the pulp
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	

Course Description Form (Practical)

Clinical requirements
1
1 acrylic RPD (free end extension).
2
1acrylic RPD (bounded saddles).
4
1 case repair.

Course Description Form (Theoretical)

143.	Course Name: general medicine
144.	Course Code: 423 GM
145.	Semester / Year: 2025-2026
146.	Description Preparation Date: 2-12-2025
147.	Available Attendance Forms:
148.	Number of Credit Hours (Total) / Number of Units (Total)60hrs
149.	Course administrator's name (mention all, if more than one name)
Name: Assist. Prof. Isam Noori Salman Email: esamnoori61 @gmail.com	
150.	Course Objectives

Course Objective	• **Cognitive Objectives:**
	  ○ **State the fundamental knowledge and principles of internal medicine**
	• **Affective and Value Objectives :**
	  ○ **Pose discussion-provoking questions by students.**
	  ○ **Pose questions for the student to solve for the semesters.**
	  ○ **Conduct quick intellectual quizzes.**
	• **General and Transferable Skills :**
	  ○ **Follow up on external resources.**
	• **Prepare external questions from those resources. Urge students to foll educational sequences.**.....

151.	Teaching and Learning Strategies
Strategy	Lectures. To build a solid background knowledge about common and important diseases. Reading core textbooks.

152. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method

1	1theor		DISORDERS OF ADRENAL GLANDS	P0t	QUIZ
2	=		Diabetes Mellitus	=	=
3	=		White Blood Cells	=	=
4	=		Hemostasis and bleeding	=	=
5	=		Gastrointestinal diseases	=	=
6	=		hypertension	=	=
7	=		Thyroid disorders	=	=
8	=		Cardiac arrhythmia	=	=
9	=		Immunological disorders	=	=
1	=		Genitourinary diseases	=	=
1	=		Heart failure	=	=
1	=		Infective Endocarditis	=	=
1	=		Ischemic heart disease	=	=
1	=		Inflammatory bowel disease	=	=
1	=		Drugs an d alcohol abuse	=	=

153. 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

154. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Davidson principle of Medicine
Main references (sources)	
Recommended books and references (scientific journals, reports…)	Harison text book of interr medicine
Electronic References, Websites	PUB MED - https://www.ncbi.nlm.nih.gov/pubm - university website.

Course Description Form (Theoretical)

Course Name:
Oral and Maxillofacial Surgery
Course Code:
425 OP
Semester / Year:
2025-2026
Description Preparation Date:
1/11/2025
Available Attendance Forms:
Attendance in the classroom for the theoretical subject
Number of Credit Hours (Total) / Number of Units (Total)
(30 hours of theory) 2 units (150 hours of practical work) 6 units
Course administrator's name (mention all, if more than one name)
Name: 1. Lecturer Dr. Mohammed Saeed Alobaidi B.D.s, C.A.B.M.S Email: Mohammed_S_Majeed@uruk.edu.iq 2. Lecturer Assistant Dr. Hind Sabah Email:

67.Course Objectives	
Course Objectives	**The course aims to prepare students to a high level of scientific knowledge in oral surgery, including familiarity with surgical instruments used in surgery, as well as knowledge of local anesthesia types and methods, and associated problems and complications**

68.Teaching and Learning Strategies	
Strategy	Presentation of microscopic slides of diseases, surgi instruments, and tooth extraction techniques Scientific discussions and seminars using LCD screens • Use of visual aids such as X-ray films and videos • Assessment methods: • Midterm and final practical exa using microscopic slides

69. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	1	**Cardiovascular diseases**	Oral and Maxillofacial surgery	Theory lectures Using PowerPo	Quizzes, Midterm, final term
2	1	**Cardiovascular diseases**	Oral and Maxillofacial surgery	Theory lectures Using PowerP	Quizzes, Midterm, final term
3	1	**Bleeding disorder**	Oral and Maxillofacial surgery	Theory lectures Using PowerP	Quizzes, Midterm, final term
4	1	**Endocrinology**	Oral and Maxillofacial surgery	Theory lectures Using PowerP	Quizzes, Midterm, final term
5	1	**Pulmonary diseases**	Oral and Maxillofacial surgery	Theory lectures Using PowerP	Quizzes, Midterm, final term
6	1	**Liver Diseases**	Oral and Maxillofacial surgery	Theory lectures Using PowerP	Quizzes, Midterm, final term
7	1	**Chronic kidney disease and dialysis**	Oral and Maxillofacial surgery	Theory lectures Using PowerP	Quizzes, Midterm, final term
8	1	**Neurologic disorders**	Oral and Maxillofacial surgery	Theory lectures Using PowerP	Quizzes, Midterm, final term
9	1	**Pregnancy**	Oral and Maxillofacial surgery	Theory lectures Using PowerP	Quizzes, Midterm, final term
10	1	**AIDS and HIV infection**	Oral and Maxillofacial surgery	Theory lectures Using PowerP	Quizzes, Midterm, final term
11	1	**Rheumatologic and connective tissue disorders**	Oral and Maxillofacial surgery	Theory lectures Using PowerP	Quizzes, Midterm, final term
12	1	**Allergy**	Oral and Maxillofacial surgery	Theory lectures Using PowerP	Quizzes, Midterm, final term
13	1	**Patients on**	Oral and	Theory lectures	Quizzes,

		radiotherapy and chemotherapy	Maxillofacial surgery	Using PowerP	Midterm, final term
14	1	**Odontogenic infections and fascial space infections**	Oral and Maxillofacial surgery	Theory lectures Using PowerP	Quizzes, Midterm, final term
15	1	**Odontogenic infections and fascial space infections**	Oral and Maxillofacial surgery	Theory lectures Using PowerP	Quizzes, Midterm, final term
16	1	**Odontogenic infections and fascial space infections**	Oral and Maxillofacial surgery	Theory lectures Using PowerP	Quizzes, Midterm, final term
17	1	**Principles of Flaps, suturing and management of difficult extraction**	Oral and Maxillofacial surgery	Theory lectures Using PowerP	Quizzes, Midterm, final term
18	1	**Principles of Flaps, suturing and management of difficult extraction**	Oral and Maxillofacial surgery	Theory lectures Using PowerP	Quizzes, Midterm, final term
19	1	**Principles of management of impacted teeth**	Oral and Maxillofacial surgery	Theory lectures Using PowerP	Quizzes, Midterm, final term
20	1	**Principles of management of impacted teeth**	Oral and Maxillofacial surgery	Theory lectures Using PowerP	Quizzes, Midterm, final term
21	1	**Principles of management of impacted teeth**	Oral and Maxillofacial surgery	Theory lectures Using PowerP	Quizzes, Midterm, final term
22	1	**Surgical aids to orthodontics**	Oral and Maxillofacial surgery	Theory lectures Using PowerP	Quizzes, Midterm, final term
23	1	**Principles of endodontic surgery**	Oral and Maxillofacial surgery	Theory lectures Using PowerP	Quizzes, Midterm, final term
24	1	**Principles of endodontic surgery**	Oral and Maxillofacial surgery	Theory lectures Using PowerP	Quizzes, Midterm, final term
25	1	**Osteomyelitis and osteonecrosis of**	Oral and Maxillofacial	Theory lectures Using PowerP	Quizzes, Midterm, final term

		the jaw	surgery		
26	1	**Osteomyelitis and osteonecrosis of the jaw**	Oral and Maxillofacial surgery	Theory lectures Using PowerP	Quizzes, Midterm, final term
27	1	**Dental Implants: Basic Concepts and Techniques**	Oral and Maxillofacial surgery	Theory lectures Using PowerP	Quizzes, Midterm, final term
28	1	**Dental Implants: Basic Concepts and Techniques**	Oral and Maxillofacial surgery	Theory lectures Using PowerP	Quizzes, Midterm, final term
29	1	**Biopsy in oral and maxillofacial surgery**	Oral and Maxillofacial surgery	Theory lectures Using PowerP	Quizzes, Midterm, final term
30	1	**Diagnostic imaging in oral and maxillofacial surgery**	Oral and Maxillofacial surgery	Theory lectures Using PowerP	Quizzes, Midterm, final term

70.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

71.Learning and Teaching Resources

Required textbooks (curricular books, if any)	1. Contemporary oral and maxillofacial surgery 7th edition 2019 (Elsevier)
Main references (sources)	
Recommended books and references (scientific journals, reports...)	2.An outline of oral surgery 2000. 3.Dental management of medically compromised patients 7th edition 2007.
Electronic References, Websites	

Course Description Form (Practical)

72.Course Name:
Oral and Maxillofacial Surgery
73.Course Code:
425 OP
74.Semester / Year:
2025-2026
75.Description Preparation Date:
1\11\2025
76.Available Attendance Forms:
Practice on Patient in the oral surgery clinics at the Faculty of Dentistry
77.Number of Credit Hours (Total) / Number of Units (Total)
(30 hours of theory) 2 units (150 hours of practical work) 6 units
78.Course administrator's name (mention all, if more than one name)
Name: 1. Lecturer Dr. Sundus Abbas 2. Lecturer Dr. Mohammed Saeed Alobaidi B.D.s, C.A.B.M.S Email: Mohammed_S_Majeed@uruk.edu.iq 3. Lecturer Assistant Dr. Hind Sabah 4. Lecturer Dr. Ali Ghalib 5. Lecturer Assistant Dr. Resha Adil 6. Lecturer Assistant Dr. Jenna Zuhir
79.Course Objectives

Course Objectives	**The course aims to prepare students to a high level of scientific knowledge in oral surgery, including familiarity with surgical instruments used in surgery, as well as knowledge of local anesthesia types and methods, and associated problems and complications**

80.Teaching and Learning Strategies

Strategy	Presentation of microscopic slides of diseases, surgi instruments, and tooth extraction techniques Scientific discussions and seminars using LCD screens • Use of visual aids such as X-ray films and videos • Assessment methods: • Midterm and final practical exa using microscopic slides

81. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
Every week	5hr	Simple teeth extraction	Oral surgery clinic	Tooth extraction For patients within the oral surgery clinic	Based on the evaluation of the Case sheet, the Techniques of anesthesia, the extraction method, and the instructions.

82.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

83.Learning and Teaching Resources

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

Course Description Form (Theoretical)

1. Course Name: Orthodontics \ Forth Grade
2. Course Code: Orthodontics \ 4260D
3. Semester / Year: 2025-2026
4. Description Preparation Date: 2025-10-01
5. Available Attendance Forms: Attendance in the classroom for the theoretical subject
6. Number of Credit Hours (Total) / Number of Units (Total): 30 hours theoretical \ 60 study unit
7. Course administrator's name (mention all, if more than one name)
Name: Dr. Anoosh Aram Haeck (theoretical+ practical) Email: Name: Lecturer Assistant Dr. Hanadi Majeed AL-Taee (practical) Email: dr.hanadi.majeed@uruk.edu.iq Name: Dr. Luma Salin Danha (theoretical + practical) Email: luma.s.danha@uruk.edu.iq
8. Course Objectives

Course Objectives	**To prepare the student at a high scientific le in the field of orthodontics, enabling them identify various pathological conditions a types of malocclusion, understand th etiological factors, and become familiar w different types of orthodontic appliances.** **Specific Skill-Based Objectives:** **1. Diagnose cases of malocclusion.** **2. Identify the types of orthodontic appliar appropriate for each case.** **Affective and Value-Based Objectives:** **To develop the ability to solve problems rela to malocclusion using removable orthodo appliances.**

9. Teaching and Learning Strategies

Strategy	Training laboratories for the fabrication of removable orthodontic appliances.

	• Lectures presented using PowerPoint (data show) program.

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	1		Introduction Definition of orthodontic Definition of occlusion, normal occlusion, ideal occlusionand malocclusi Six keys of norr occlusion	Lectures' represent in pov point	Daily, monthly, midterm, and fi examinations.
2	1		Aims of orthodontic treatment Orthodontic definitions (overjet, overbite, crossbite, spacing, crowding, midline deviation, rotation, displacement, proclination, retroclination, protrusion retrusion, imbrication, overlap, impaction) – including types	Lectures' represent in pov point	Daily, monthly, midterm, and fi examinations.
3	1		Classification of malocclusion a. Angle's classification including division and subdivisions	Lectures' represent in pov point	Daily, monthly, midterm, and fi examinations.
4	1		b.molar, canine, incisor classifications c. classification of deciduous and mixed dentitions	Lectures' represent in pov point	Daily, monthly, midterm, and fi examinations.
5	1		Definitions of growth, development and maturit Stages of development (ovum till birth)	Lectures' represent in pov point	Daily, monthly, midterm, and fi

			Theories of bone growth (cartiligeneous, sutural, endosteal -periosteal, matrix theories)		examinations.
6	1		Definitions of growth sit growth center, displacement, and drift Growth curve and maximum growth spurt	Lectures' represent in pov point	Daily, monthly, midterm, and fi examinations.
7	1		Growth and developmen of hard tissues (cranial base, cranial vault, nasomaxillary complex, mandible) including prenatal and postnatal - Growth and developmen of soft tissues (lip, nose, cheek and tongue) including prenatal and postnatal	Lectures' represent in pov point	Daily, monthly, midterm, and fi examinations.
8	1		Developmental anomalie Jaw rotation and adaptati	Lectures' represent in pov point	Daily, monthly, midterm, and fi examinations.
9	1		Deciduous and permaner dentition Stages of tooth development: Formation, calcification and root completion	Lectures' represent in pov point	Daily, monthly, midterm, and fi examinations.
10	1		Tooth eruption (stages ar theories) Sequences and timing of eruption	Lectures' represent in pov point	Daily, monthly, midterm, and fi examinations.
11	1		Development of occlusio a. new born oral cavity (relationship of gum pad neonatal jaw relationships, natal and	Lectures' represent in pov point	Daily, monthly, midterm, and fi examinations.

			neonatal teeth) b. Deciduous dentition stage - Dental changes til 6 years of age (jaw relationship, attrition, primary spaces		
12	1		c -Early mixed dentition stage - eruption of first molars and incisors (occlusal relationships of primary and permanent molars, early mesial shift, ugly duckling stage, secondar spaces) d. Late mixed dentition stage - eruption of canine and premolars (Leeway space and late mesial shift) e.Permanent dentition - eruption second and third molars (mesial migration	Lectures' represent in pov point	Daily, monthly, midterm, and fi examinations.
13	1		Etiology of malocclusion Genetic factors and inherited factors Classification of etiologi factors a. General factors i. Skeletal (dental base ar cranial base, variation of position and size of the jaws)	Lectures' represent in pov point	Daily, monthly, midterm, and final examinations.
14	1		ii- Soft tissue (muscles o face and mastication, muscles of lip and tongue, relation to skeletal factors, abnormalities of oro-	Lectures' represent in pov point	Daily, monthly, midterm, and final examinations.

			facial musculature, interference with soft tissue function) iii. Tooth size and arch length relationship (Crowding and spacing) including types		
15	1		b. Local factor i-Extra-teeth (supernumerary) and missing teeth (hypodontia) ii. Anomalies of tooth siz and shape	Lectures' represent in pov point	Daily, monthly, midterm, and final examinations.
16	1		iii- Early loss of deciduo teeth iv. Retained deciduous teeth, delayed eruption of permanent teeth, impacted teeth, ankylosis	Lectures' represent in pov point	Daily, monthly, midterm, and final examinations.
17	1		Abnormal eruptive behavior (displacement, transposition) vi. Large frenum (labial and lingual), periodontal diseases	Lectures' represent in pov point	Daily, monthly, midterm, and final examinations.
18	1		vii. Oral habit viii. Dental caries, improper dental restorati	Lectures' represent in pov point	Daily, monthly, midterm, and final examinations.
19	1		Tooth movement a. Tissue changes associated with tooth movement: i. Histology of periodontium ii. Theories of tooth	Lectures' represent in pov point	Daily, monthly, midterm, and final examinations.

			movement (pressure tension theory, blood flo theory, and piezoelectric theory)		
20	1		b. Biomechanics i. Force (application, typ magnitude, duration and direction) ii. Center of resistance ar rotation, moment of forc and moment of couple.	Lectures' represent in pov point	Daily, monthly, midterm, and final examinations.
21	1		iii. Types of tooth movement iv. Rate of tooth moveme and factors affecting it	Lectures' represent in pov point	Daily, monthly, midterm, and final examinations.
22	1		Orthodontic appliances 1 a. Overview: i. passive orthodontic appliances (habit breaker retainer and space maintainer) ii. active orthodontic appliances (removable, fixed, orthopedic and myofunctional, and combination)	Lectures' represent in pov point	Daily, monthly, midterm, and final examinations.
23	1		b. Removable Orthodont Appliance: i. Properties of various components (SS wire, acrylic) ii. Components: 1) active components (springs, screws and elastics)	Lectures' represent in pov point	Daily, monthly, midterm, and final examinations.
24	1		2) retentive components (clasps) 3) acrylic base plate and bite planes	Lectures' represent in pov point	Daily, monthly, midterm, and final examinations.

			4) anchorage		
25	2		iii. Design of a removabl orthodontic appliance iv. Construction of a removable orthodontic appliance	Lectures' represent in pov point	Daily, monthly, midterm, and final examinations.
26	1		V.Soldering and welding vi. Post-insertion instructions and guidelin	Lectures' represent in pov point	Daily, monthly, midterm, and final examinations.
27	1		c. Fixed orthodontic appliance: Types, components, advantages, limitation, biomechanics, banding v bonding	Lectures' represent in pov point	Daily, monthly, midterm, and final examinations.
28	1		Use of extra-oral anchorage, temporary anchorage devices (TADs), and lingual fixed appliance	Lectures' represent in pov point	Daily, monthly, midterm, and final examinations.
29	1		d. Orthopedic and Myofunctional appliance - Types, components, advantages, limitation, mode of action e. Other active appliance combination appliances, Invisalign	Lectures' represent in pov point	Daily, monthly, midterm, and final examinations.
30	1		f. Retention and retainers - Retention (definition, reason, time) Retainers (Hawley, clear overlay, positioners, permanent fixation, precision)	Lectures' represent in pov point	Daily, monthly, midterm, and final examinations.

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)	-Orthodontics; current principles and

	technique - Introduction to orthodontic • -Contemporary Orthodontics,William Proffit Sixth edition • -Textbook of Orthodontics Singh 2007
Main references (sources)	
Recommended books and references (scientific journals, reports...)	Reports and research published on college website
Electronic References, Websites	College Website, google schooler

Course Description Form (Practical)

13.Course Name: Orthodontics	
14.Course Code: 4260D	
15.Semester / Year: 2025-2026	
16.Description Preparation Date: 1-10-2025	
17.Available Attendance Forms: Lectures and labs	
18.Number of Credit Hours (Total) / Number of Units (Total): 120 ours clinical	
19.Course administrator's name (mention all, if more than one name)	
Name: Dr. Anoosh Aram Haeck (theoretical+ practical) Email: Name: Lecturer Assistant Dr. Hanadi Majeed AL-Taee (practical) Email: dr.hanadi.majeed@uruk.edu.iq Name: Dr. Luma Salin Danha (theoretical + practical) Email: luma.s.danha@uruk.edu.iq	
20.Course Objectives	
Course Objectives	**To prepare the student at a high scientific level the field of orthodontics, enabling them to iden various pathological conditions and types of malocclusion, understand their etiological facto and become familiar with different types of orthodontic appliances.**

	Specific Skill-Based Objectives: **1. Diagnose cases of malocclusion.** **2. Identify the types of orthodontic appliances appropriate for each case.** **Affective and Value-Based Objectives:** **To develop the ability to solve problems relate malocclusion using removable orthodo appliances.**

21.Teaching and Learning Strategies

Strategy	Training labs for removable orthodontic appliance manufacturing Lectures represented on power point

22. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	4	Seminar 1 Introduction orthodontic Orthodontic pliers	Orthodontics	Lectures power po with clini demonstratio	Short a semester exa with mid a final exam
2	4	Seminar 2 Types of orthodon appliance Introduction removable orthodontic appliar	Orthodontics	Lectures power po with clini demonstratio	Short a semester exa with mid a final exam
3	4	Seminar 3 Properties of stainl steel	Orthodontics	Lectures power po with clini demonstratio	Short a semester exa with mid a final exam
4	4	Seminar 4 Principle of w bending	Orthodontics	Lectures power po with clini demonstratio	Short a semester exa with mid a final exam
5	4	Training on w	Orthodontics	Lectures	Short a

		bending		power po with clini demonstratio	semester exa with mid a final exam
6	4	Training on w bending	Orthodontics	Lectures power po with clini demonstratio	Short a semester exa with mid a final exam
7	4	Z spring	Orthodontics	Lectures power po with clini demonstratio	Short a semester exa with mid a final exam
8	4	Recurve Z spring	Orthodontics	Lectures power po with clini demonstratio	Short a semester exa with mid a final exam
9	4	Review	Orthodontics	Lectures power po with clini demonstratio	Short a semester exa with mid a final exam
10	4	Simple finger sprin	Orthodontics	Lectures power po with clini demonstratio	Short a semester exa with mid a final exam
11	4	Modified fin spring	Orthodontics	Lectures power po with clini demonstratio	Short and semest exams with n and fi exam
12	4	Review	Orthodontics	Lectures power po with clini demonstratio	Short a semester exa with mid a final exam
13	4	Buccal can retractor	Orthodontics	Lectures power po with clini demonstratio	Short a semester exa with mid a final exam
14	4	Modified buc canine retractor	Orthodontics	Lectures power po with clini demonstratio	Short a semester exa with mid a final exam

15	4	Review	Orthodontics	Lectures power po with clini demonstratio	Short a semester exa with mid a final exam
16	4	Semester exam	Orthodontics	Lectures power po with clini demonstratio	Short a semester exa with mid a final exam
17	4	Adam clasp on up first right perman molar	Orthodontics	Lectures power po with clini demonstratio	Short a semester exa with mid a final exam
18	4	Adam clasp on up first left perman molar	Orthodontics	Lectures power po with clini demonstratio	Short a semester exa with mid a final exam
19	4	Adam clasp on up right first perman premolar	Orthodontics	Lectures power po with clini demonstratio	Short a semester exa with mid a final exam
20	4	Adam clasp on up left first perman premolar	Orthodontics	Lectures power po with clini demonstratio	Short a semester exa with mid a final exam
21	4	Review	Orthodontics	Lectures power po with clini demonstratio	Short a semester exa with mid a final exam
22	4	Fitted labial arch	Orthodontics	Lectures power po with clini demonstratio	Short a semester exa with mid a final exam
23	4	Howly arch	Orthodontics	Lectures power po with clini demonstratio	Short a semester exa with mid a final exam
24	4	Review	Orthodontics	Lectures power po with clini demonstratio	Short a semester exa with mid a final exam
25	4	Robert retractor	Orthodontics	Lectures power po	Short a semester exa

				with clini demonstratio	with mid a final exam
26	4	Acrylic base plate	Orthodontics	Lectures power po with clini demonstratio	Short a semester exa with mid a final exam
27	4	Welding a soldering	Orthodontics	Lectures power po with clini demonstratio	Short a semester exa with mid a final exam
28	4	review	Orthodontics	Lectures power po with clini demonstratio	Short a semester exa with mid a final exam
29	4	Semester exam	Orthodontics	Lectures power po with clini demonstratio	Short a semester exa with mid a final exam
30	4	Final exam	Orthodontics	Lectures power po with clini demonstratio	Short a semester exa with mid a final exam

23.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

24.Learning and Teaching Resources

Required textbooks (curricular books, if any)	
Main references (sources)	-Orthodontics; current principles and technique - Introduction to orthodontic • -Contemporary Orthodontics,William R Proffit Sixth edition • -Textbook of Orthodontics Singh 2007
Recommended books and references (scientific journals, reports...)	Reports and research published on college website
Electronic References, Websites	College Website, google schooler

Course Description Form (Theoretical)

84.Course Name: General Surgery 4th Year

85.Course Code:

86.Semester / Year: 2025-2026

87.Description Preparation Date: 4-10-2025

88.Available Attendance Forms:

89.Number of Credit Hours (Total) / Number of Units (Total)

90.Course administrator's name (mention all, if more than one name)

Name: Name: Assist. Prof. Khaleel A. Hassoon------Lecturer: Atheer Ali
Email: khaleelian @yahoo.com

91.Course Objectives

Course Objectives	• ..... • ..... • .....

92.Teaching and Learning Strategies

Strategy	

93. Course Structure

Week	**Hours**	**Required Learning Outcomes**	**Unit or subject name**	**Learning method**	**Evaluation method**
1	2		Introduction general surger	Power point	Quiz
2	2		Metabolic response trauma	=	=

3	=		Wound healing	=	=
4	=		Surgical wou infection	=	=
5	=		hemorrhage	=	=
6	=		shock	=	=
7	=		Blood transfusion	=	=
8	=		Acid-base balance	=	=
9	=		electrolyte	=	=
10	=		Head injury	=	=
11	=		History taking	=	=
12	=		Physical exam	=	=
13	=		Perioperative care	=	=
14	=		Postoperative complication	=	=
15	=		General [postoperative problems a management	=	=

94.

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

95.Learning and Teaching Resources

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

Course Description Form (Theoretical)

96.Course Name: oral and maxilla- facial pathology

97.Course Code:

98.Semester / Year: year

99.Description Preparation Date: 5-10-2025

100. Available Attendance Forms: theory and practical

101. Number of Credit Hours (Total) / Number of Units (Total)

4 theory and 3 practical per weeks

102. Course administrator's name (mention all, if more than one name)

Name: Prof, dr,Ahlam hameed Majeed
Dr_ahlamhameed@yahoo.com
Lecturer, dr,farah sabah rasheed
Email: farahsabah80@yahoo.com

103. Course Objectives

Course Objectives	**Learn the student the diseases that affect the oral and maxillofacial regions..... Early detection of the diseases...and learn How deal with these diseases .. ..**

104. Teaching and Learning Strategies

Strategy	To understand the nature of the diseases ,through under standing the etiology , clinical features , radiographical , histopathological and treatment

105. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	1	Theory and practical	**Introduction oral pathology**	Power point	QUIZ

2	4 theory 3 practical	=	**Biopsy and principles of biopsy techniques** Types of biopsy according to the size of tissue that to be biopsied **Types of biopsy according to the instruments used to obtain them** general rules for the biopsy procedure Indications for biopsy Special stains	=	=
3	=	=	Wound healing	=	=
4	=	=	**Dental caries** EPIDEMIOLOGY OF DENTAL CARIES FACTORS AFFECTING CARIES PREVALENC**E** Etiology and Pathogenesis Clinical classification of dental caries HISTOPATHOLOGY OF CARIES	=	=
5	=	=	**Pulp Pathology** Pulpitis common causes of pulpal inflammation Clinical features Histopathologic Features Pulp calcification Age changes in teeth	=	=
5	=	=	**Periapical pathology** **Aetiology** **Acute periapical periodontitis** **PERIAPICAL GRANULOMA** **PERIAPICAL CYST** **PERIAPICAL ABSCESS** **Clinical features** **The radiographical**	=	=

			appearances Histopathological Features		
6	=	=	**Bone infection Osteomyelitis acute and chronic Clinical features radiographical features Histopathological Features Garrie"s osteomyelitis Alveolar ostitis**	=	=
7	=	=	**Fibro-osseous lesions**	=	=
8	=	=	**Genetic disease of the bone**	=	=
9	=	=	**Metabolic disease of the bone**	=	=
10	=	=	**Benign bone neoplasm**	=	=
11	=	=	**Malignant bone neoplasm**	=	=
12	=	=	**Developmental defects of oral and maxillofacial region**	=	=
13	=	=	**Developmental defects of oral and maxillofacial region and cysts DEVELOPMENTAL DEFECT OF THE ORAL MUCOSA. DEVELOPMENTAL DEFECT OF THE TONGUE. DEVELOPMENTAL DEFECT OF THE LIPS AND PALATE. DEVELOPMENTAL DEFECT OF THE JAW BONES. DEVELOPMENTAL**	=	=
14	=	=	**Odontogenic cysts of the jaw**	=	=

15	=	=	**Odontogenic tumor**	=	=
16	=	=	**oral mucosal lesions**	=	=
17	=	=	**oral ulcerations**	=	=
18	=	=	**Vesiculo-bulbous lesions**	=	=
19	=	=	**Oral white lesions**	=	=
20	=	=	**Oral epithelial lesions**	=	=
21	=	=	**Diseases of salivary glands**	=	=
22	=	=	**Tumors of salivary glands**	=	=
23	=	=	**Red lesions**	=	=
24	=	=	**Benign soft tissue lesions**	=	=
25	=	=	**Malignant soft tissue lesions**	=	=
26	=	=	**Pigmented lesions**	=	=
27	=	=	**Introduction to forensic**	=	=
28	=	=	**Forensic odontology**	=	=
29	=	=	**TMJ pathology**	=	=
30	=	=	**Osseointegration**	=	=

106. 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

107. Learning and Teaching Resources

Required textbooks (curricular books, if any)	1 -. **Oral &Maxillofacial Pathology by Neville, Damm, Allen ,Bouquot, 2018**
Main references (sources)	
Recommended books and references (scientific journals, reports...)	**1-Essential of Oral Pathology &Oral Medicine By Cawson & Odell** **2-Oral Pathology, Clinical pathologic Correlations by Regzi, Sciubba,Jordan**

Electronic References, Websites	

Course Description Form (Practical)

108.	Course Name: Oral and maxillofacial pathology
109.	Course Code:
110.	Semester / Year: year
111.	Description Preparation Date: 5-10-2025
112.	Available Attendance Forms: theory and practical
113.	Number of Credit Hours (Total) / Number of Units (Total)
4 theory and 3 practical per weeks	
114.	Course administrator's name (mention all, if more than one name)
Name: Prof, dr,Ahlam hameed Majeed Dr_ahlamhameed@yahoo.com Lecturer, dr,farah sabah rasheed Email: farahsabah80@yahoo.com	
115.	Course Objectives
Course Objectives	**.... Learn the student the diseases that affect th oral and maxillofacial regions..... Early detection of the diseases...and learn How deal with these diseases.** • **.....** • **.....**
116.	Teaching and Learning Strategies
Strategy	To understand the nature of the diseases ,through under standing the etiology , clinical features , radiographical , histopathological and treatment
117. Course Structure	

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	3		Biopsy	Powe point slides	Quiz
2	=		Wound healing	=	=
3	=		Dental caries	=	=
4	=		Pulp diseases	=	=
5	=		Periapical lesion	=	=
6	=		Osteomyelitis	=	=
7	=		Fibro-osseous lesions	=	=
8	=		**Genetic disease of t bone**	=	=
9	=		**Metabolic disease the bone**	=	=
10	=		**Benign-bone neoplas**	=	=
11	=		**Malignant-bone neoplasm**	=	=
12	=		**Developmental defe of oral a maxillofacial region**	=	=
13	=		**Developmental defe of oral a maxillofacial regi and cysts** DEVELOPMENTAL DEFECT OF TI ORAL MUCOSA. DEVELOPMENTAL DEFECT OF TI TONGUE. DEVELOPMENTAL DEFECT OF TI LIPS AND PALATE DEVELOPMENTAL DEFECT OF TI JAW BONES.	=	=

			DEVELOPMENTAL		
14	=		**Odontogenic cysts the jaw**	=	=
15	=		**Odontogenic tumor**	=	=
16	=		**oral mucosal lesions**	=	=
17	=		**oral ulcerations**	=	=
18	=		**Vesiculo-bulbous lesions**	=	=
19	=		**Oral white lesions**	=	=
20	=		**Oral-epithelial lesion**	=	=
21	=		**Diseases of salivary glands**	=	=
22	=		**Tumors of salivary glands**	=	=
23	=		**Red lesions**	=	=
24	=		**Benign soft tissue lesions**	=	=
25	=		**Malignant soft tissue lesions**	=	=
26	=		**Pigmented lesions**	=	=
27	=		**Introduction forensic**	=	=
28	=		**Forensic odontology**	=	=
29	=		**TMJ pathology**	=	=
30	=		**Osseointegration**	=	=

118. 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	
119. Learning and Teaching Resources	
Required textbooks (curricular books, any)	1 -. **Oral &Maxillofacial Pathology by Neville, Damm, Allen ,Bouquot, 2018**
Main references (sources)	1 -. **Oral &Maxillofacial Pathology by Neville, Damm, Allen ,Bouquot, 2018**
Recommended books and references (scientific journals, reports...)	**1-Essential of Oral Pathology &Oral Medici By Cawson & Odell** **2-Oral Pathology, Clinical patholo Correlations by Regzi, Sciubba,Jordan**
Electronic References, Websites	

Course Description Form (Theoretical)

1. Course Name: Orthodontics \ Forth Grade
2. Course Code: Orthodontics \ 4260D
3. Semester / Year: 2025-2026
4. Description Preparation Date: 2025-10-01
5. Available Attendance Forms: Attendance in the classroom for the theoretical subject
6. Number of Credit Hours (Total) / Number of Units (Total): 30 hours theoretical \ 60 study unit
7. Course administrator's name (mention all, if more than one name)
Name: Dr. Anoosh Aram Haeck (theoretical+ practical) Email: Name: Lecturer Assistant Dr. Hanadi Majeed AL-Taee (practical) Email: dr.hanadi.majeed@uruk.edu.iq Name: Dr. Luma Salin Danha (theoretical + practical) Email: luma.s.danha@uruk.edu.iq
8. Course Objectives

Course Objectives	**To prepare the student at a high scientific le in the field of orthodontics, enabling them identify various pathological conditions a types of malocclusion, understand th etiological factors, and become familiar w different types of orthodontic appliances.** **Specific Skill-Based Objectives:** **1. Diagnose cases of malocclusion.** **2. Identify the types of orthodontic appliar appropriate for each case.** **Affective and Value-Based Objectives:** **To develop the ability to solve problems rela to malocclusion using removable orthodo appliances.**

9. Teaching and Learning Strategies

Strategy	Training laboratories for the fabrication of removable orthodontic appliances.

	• Lectures presented using PowerPoint (data show) program.

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	1		Introduction Definition of orthodontic Definition of occlusion, normal occlusion, ideal occlusionand malocclusi Six keys of norr occlusion	Lectures' represent in pov point	Daily, monthly, midterm, and fi examinations.
2	1		Aims of orthodontic treatment Orthodontic definitions (overjet, overbite, crossbite, spacing, crowding, midline deviation, rotation, displacement, proclination, retroclination, protrusion retrusion, imbrication, overlap, impaction) – including types	Lectures' represent in pov point	Daily, monthly, midterm, and fi examinations.
3	1		Classification of malocclusion a. Angle's classification including division and subdivisions	Lectures' represent in pov point	Daily, monthly, midterm, and fi examinations.
4	1		b.molar, canine, incisor classifications c. classification of deciduous and mixed dentitions	Lectures' represent in pov point	Daily, monthly, midterm, and fi examinations.
5	1		Definitions of growth, development and maturit Stages of development (ovum till birth)	Lectures' represent in pov point	Daily, monthly, midterm, and fi

			Theories of bone growth (cartiligeneous, sutural, endosteal -periosteal, matrix theories)		examinations.
6	1		Definitions of growth sit growth center, displacement, and drift Growth curve and maximum growth spurt	Lectures' represent in pov point	Daily, monthly, midterm, and fi examinations.
7	1		Growth and developmen of hard tissues (cranial base, cranial vault, nasomaxillary complex, mandible) including prenatal and postnatal - Growth and developmen of soft tissues (lip, nose, cheek and tongue) including prenatal and postnatal	Lectures' represent in pov point	Daily, monthly, midterm, and fi examinations.
8	1		Developmental anomalie Jaw rotation and adaptati	Lectures' represent in pov point	Daily, monthly, midterm, and fi examinations.
9	1		Deciduous and permaner dentition Stages of tooth development: Formation, calcification and root completion	Lectures' represent in pov point	Daily, monthly, midterm, and fi examinations.
10	1		Tooth eruption (stages ar theories) Sequences and timing of eruption	Lectures' represent in pov point	Daily, monthly, midterm, and fi examinations.
11	1		Development of occlusio a. new born oral cavity (relationship of gum pad neonatal jaw relationships, natal and	Lectures' represent in pov point	Daily, monthly, midterm, and fi examinations.

			neonatal teeth) b. Deciduous dentition stage - Dental changes til 6 years of age (jaw relationship, attrition, primary spaces		
12	1		C -Early mixed dentition stage - eruption of first molars and incisors (occlusal relationships of primary and permanent molars, early mesial shift, ugly duckling stage, secondar spaces) d. Late mixed dentition stage - eruption of canine and premolars (Leeway space and late mesial shift) e.Permanent dentition - eruption second and third molars (mesial migration	Lectures' represent in pov point	Daily, monthly, midterm, and fi examinations.
13	1		Etiology of malocclusion Genetic factors and inherited factors Classification of etiologi factors a. General factors i. Skeletal (dental base ar cranial base, variation of position and size of the jaws)	Lectures' represent in pov point	Daily, monthly, midterm, and final examinations.
14	1		ii- Soft tissue (muscles o face and mastication, muscles of lip and tongue, relation to skeletal factors, abnormalities of oro-	Lectures' represent in pov point	Daily, monthly, midterm, and final examinations.

			facial musculature, interference with soft tissue function) iii. Tooth size and arch length relationship (Crowding and spacing) including types		
15	1		b. Local factor i-Extra-teeth (supernumerary) and missing teeth (hypodontia) ii. Anomalies of tooth siz and shape	Lectures' represent in pov point	Daily, monthly, midterm, and final examinations.
16	1		iii- Early loss of deciduo teeth iv. Retained deciduous teeth, delayed eruption of permanent teeth, impacted teeth, ankylosis	Lectures' represent in pov point	Daily, monthly, midterm, and final examinations.
17	1		Abnormal eruptive behavior (displacement, transposition) vi. Large frenum (labial and lingual), periodontal diseases	Lectures' represent in pov point	Daily, monthly, midterm, and final examinations.
18	1		vii. Oral habit viii. Dental caries, improper dental restorati	Lectures' represent in pov point	Daily, monthly, midterm, and final examinations.
19	1		Tooth movement a. Tissue changes associated with tooth movement: i. Histology of periodontium ii. Theories of tooth	Lectures' represent in pov point	Daily, monthly, midterm, and final examinations.

			movement (pressure tension theory, blood flo theory, and piezoelectric theory)		
20	1		b. Biomechanics i. Force (application, typ magnitude, duration and direction) ii. Center of resistance ar rotation, moment of forc and moment of couple.	Lectures' represent in pov point	Daily, monthly, midterm, and final examinations.
21	1		iii. Types of tooth movement iv. Rate of tooth moveme and factors affecting it	Lectures' represent in pov point	Daily, monthly, midterm, and final examinations.
22	1		Orthodontic appliances 1 a. Overview: i. passive orthodontic appliances (habit breaker retainer and space maintainer) ii. active orthodontic appliances (removable, fixed, orthopedic and myofunctional, and combination)	Lectures' represent in pov point	Daily, monthly, midterm, and final examinations.
23	1		b. Removable Orthodont Appliance: i. Properties of various components (SS wire, acrylic) ii. Components: 1) active components (springs, screws and elastics)	Lectures' represent in pov point	Daily, monthly, midterm, and final examinations.
24	1		2) retentive components (clasps) 3) acrylic base plate and bite planes	Lectures' represent in pov point	Daily, monthly, midterm, and final examinations.

			4) anchorage		
25	2		iii. Design of a removabl orthodontic appliance iv. Construction of a removable orthodontic appliance	Lectures' represent in pov point	Daily, monthly, midterm, and final examinations.
26	1		V.Soldering and welding vi. Post-insertion instructions and guidelin	Lectures' represent in pov point	Daily, monthly, midterm, and final examinations.
27	1		c. Fixed orthodontic appliance: Types, components, advantages, limitation, biomechanics, banding v bonding	Lectures' represent in pov point	Daily, monthly, midterm, and final examinations.
28	1		Use of extra-oral anchorage, temporary anchorage devices (TADs), and lingual fixed appliance	Lectures' represent in pov point	Daily, monthly, midterm, and final examinations.
29	1		d. Orthopedic and Myofunctional appliance - Types, components, advantages, limitation, mode of action e. Other active appliance combination appliances, Invisalign	Lectures' represent in pov point	Daily, monthly, midterm, and final examinations.
30	1		f. Retention and retainers - Retention (definition, reason, time) Retainers (Hawley, clear overlay, positioners, permanent fixation, precision)	Lectures' represent in pov point	Daily, monthly, midterm, and final examinations.

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)	-Orthodontics; current principles and

	technique - Introduction to orthodontic • -Contemporary Orthodontics,William Proffit Sixth edition • -Textbook of Orthodontics Singh 2007
Main references (sources)	
Recommended books and references (scientific journals, reports...)	Reports and research published on college website
Electronic References, Websites	College Website, google schooler

Course Description Form (Practical)

13.Course Name: Orthodontics	
14.Course Code: 4260D	
15.Semester / Year: 2025-2026	
16.Description Preparation Date: 1-10-2025	
17.Available Attendance Forms: Lectures and labs	
18.Number of Credit Hours (Total) / Number of Units (Total): 120 ours clinical	
19.Course administrator's name (mention all, if more than one name)	
Name: Dr. Anoosh Aram Haeck (theoretical+ practical) Email: Name: Lecturer Assistant Dr. Hanadi Majeed AL-Taee (practical) Email: dr.hanadi.majeed@uruk.edu.iq Name: Dr. Luma Salin Danha (theoretical + practical) Email: luma.s.danha@uruk.edu.iq	
20.Course Objectives	
Course Objectives	**To prepare the student at a high scientific level the field of orthodontics, enabling them to iden various pathological conditions and types of malocclusion, understand their etiological facto and become familiar with different types of orthodontic appliances.** **Specific Skill-Based Objectives:**

	1. Diagnose cases of malocclusion. **2. Identify the types of orthodontic appliances appropriate for each case.** **Affective and Value-Based Objectives:** **To develop the ability to solve problems relate malocclusion using removable orthodo appliances.**

21.Teaching and Learning Strategies

Strategy	Training labs for removable orthodontic appliance manufacturing Lectures represented on power point

22. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	4	Seminar 1 Introduction orthodontic Orthodontic pliers	Orthodontics	Lectures power po with clini demonstratio	Short a semester exa with mid a final exam
2	4	Seminar 2 Types of orthodon appliance Introduction removable orthodontic appliar	Orthodontics	Lectures power po with clini demonstratio	Short a semester exa with mid a final exam
3	4	Seminar 3 Properties of stainl steel	Orthodontics	Lectures power po with clini demonstratio	Short a semester exa with mid a final exam
4	4	Seminar 4 Principle of w bending	Orthodontics	Lectures power po with clini demonstratio	Short a semester exa with mid a final exam
5	4	Training on w bending	Orthodontics	Lectures power po with clini	Short a semester exa with mid a

				demonstratio	final exam
6	4	Training on w bending	Orthodontics	Lectures power po with clini demonstratio	Short a semester exa with mid a final exam
7	4	Z spring	Orthodontics	Lectures power po with clini demonstratio	Short a semester exa with mid a final exam
8	4	Recurve Z spring	Orthodontics	Lectures power po with clini demonstratio	Short a semester exa with mid a final exam
9	4	Review	Orthodontics	Lectures power po with clini demonstratio	Short a semester exa with mid a final exam
10	4	Simple finger sprin	Orthodontics	Lectures power po with clini demonstratio	Short a semester exa with mid a final exam
11	4	Modified fin spring	Orthodontics	Lectures power po with clini demonstratio	Short and semest exams with n and fi exam
12	4	Review	Orthodontics	Lectures power po with clini demonstratio	Short a semester exa with mid a final exam
13	4	Buccal can retractor	Orthodontics	Lectures power po with clini demonstratio	Short a semester exa with mid a final exam
14	4	Modified buc canine retractor	Orthodontics	Lectures power po with clini demonstratio	Short a semester exa with mid a final exam
15	4	Review	Orthodontics	Lectures power po	Short a semester exa

				with clini demonstratio	with mid a final exam
16	4	Semester exam	Orthodontics	Lectures power po with clini demonstratio	Short a semester exa with mid a final exam
17	4	Adam clasp on up first right perman molar	Orthodontics	Lectures power po with clini demonstratio	Short a semester exa with mid a final exam
18	4	Adam clasp on up first left perman molar	Orthodontics	Lectures power po with clini demonstratio	Short a semester exa with mid a final exam
19	4	Adam clasp on up right first perman premolar	Orthodontics	Lectures power po with clini demonstratio	Short a semester exa with mid a final exam
20	4	Adam clasp on up left first perman premolar	Orthodontics	Lectures power po with clini demonstratio	Short a semester exa with mid a final exam
21	4	Review	Orthodontics	Lectures power po with clini demonstratio	Short a semester exa with mid a final exam
22	4	Fitted labial arch	Orthodontics	Lectures power po with clini demonstratio	Short a semester exa with mid a final exam
23	4	Howly arch	Orthodontics	Lectures power po with clini demonstratio	Short a semester exa with mid a final exam
24	4	Review	Orthodontics	Lectures power po with clini demonstratio	Short a semester exa with mid a final exam
25	4	Robert retractor	Orthodontics	Lectures power po with clini demonstratio	Short a semester exa with mid a final exam

26	4	Acrylic base plate	Orthodontics	Lectures power po with clini demonstratio	Short a semester exa with mid a final exam
27	4	Welding a soldering	Orthodontics	Lectures power po with clini demonstratio	Short a semester exa with mid a final exam
28	4	review	Orthodontics	Lectures power po with clini demonstratio	Short a semester exa with mid a final exam
29	4	Semester exam	Orthodontics	Lectures power po with clini demonstratio	Short a semester exa with mid a final exam
30	4	Final exam	Orthodontics	Lectures power po with clini demonstratio	Short a semester exa with mid a final exam

23.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

24.Learning and Teaching Resources

Required textbooks (curricular books, if any)	
Main references (sources)	-Orthodontics; current principles and technique - Introduction to orthodontic • -Contemporary Orthodontics,William R Proffit Sixth edition • -Textbook of Orthodontics Singh 2007
Recommended books and references (scientific journals, reports...)	Reports and research published on college website
Electronic References, Websites	College Website, google schooler

Course Description Form (Theoretical)

120.	Course Name:
Pedodontics	
121.	Course Code:
PE427	
122.	Semester / Year:
Two semester /4th stage	
123.	Description Preparation Date:
26-10-2025	
124.	Available Attendance Forms:
Weekly	
125.	Number of Credit Hours (Total) / Number of Units (Total)
30 hours theory	
126.	Course administrator's name (mention all, if more than one name)
Name: zainab abd alrudha aldahan Email: Zainab.aldahan@uruk.edu.iq mona hashim Email: Muna.hashim@uruk.edu.iq	
127.	Course Objectives
Course Objectives to understand and comprehend the theoretical and practical methods for treating all cases of pediatric dental injury, and t familiarize the student with scientific methods and techniques supported by illustrative tools, to identify primary and permanent teeth and the problems associated with them.	• ..... • ..... • .....
128.	Teaching and Learning Strategies
Strategy	Delivering theoretical lectures using data presentations using liquid crystal screens, showing educational films, and using electronic classes.

129. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	1	Eruption of teeth , normal eruption process	Eruption	Theoretical Lecture using PowerPoint	Short, midterm, and final exams

2	1	Teething and difficult eruption	Eruption	Theoretical Lecture using PowerPoint	Short, midterm, and final exams
3	1	Eruption haematoma , sequestrum ,ectopic eruption	Eruption	Theoretical Lecture using PowerPoint	Short, midterm, and final exams
4	1	Epstein pearls, Bohn nodules, Dental lamina cysts, Sheddingof the primary teeth, Mechanism of resorption and shedding, Factors causes differences in time of eruption	Eruption	Theoretical Lecture using PowerPoint	Short, midterm, and final exams
5	1	Systemic (disease) Factors whic cause late eruption Deciduous Dentition Period, Ugly Ducklin Stage	Eruption	Theoretical Lecture using PowerPoint	Short, midterm, and final exams
6	1	Morphology of the primary teeth	Morphology	Theoretical Lecture using PowerPoint	Short, midterm, and final exams
7	1	Normal morphology of all prim teeth and their clinical consideration	Morphology	Theoretical Lecture using PowerPoint	Short, midterm, and final exams
8	1	Morphological differencesbetween primaryand permanent teeth	Morphology	Theoretical Lecture using PowerPoint	Short, midterm, and final exams
11	1	Functions of primary teeth	Morphology	Theoretical Lecture using PowerPoint	Short, midterm, and final exams
10	1	Dental caries; Definition and Classification	Dental caries	Theoretical Lecture using PowerPoint	Short, midterm, and final exams
11	1	Rampant dental caries, Early childhood caries,	Dental caries	Theoretical Lecture using PowerPoint	Short, midterm, and final exams
12	1	Restorative dentistry for children Isolation & maintenance of dry field and application of the rubber Dam	Rampant caries	Theoretical Lecture using PowerPoint	Short, midterm, and final exams
13	1	Morphological consideration cavity preparation Cavity preparation on primary teeth,	Restorative dentistry	Theoretical Lecture using PowerPoint	Short, midterm, and final exams
14	1	Restorative materials used on pediatric dentistry	Restorative dentistry	Theoretical Lecture using PowerPoint	Short, midterm, and final exams
15	1	Matrices & retainers	Restorative	Theoretical	Short, midterm,

			dentistry	Lecture using PowerPoint	and final exams
16	1	Chrome steel crowns, ART	Restorative dentistry	Theoretical Lecture using PowerPoint	Short, midterm, and final exams
17	1	Treatment of deep caries	deep caries	Theoretical Lecture using PowerPoint	Short, midterm, and final exams
18	1	Indirect pulp treatment	deep caries	Theoretical Lecture using PowerPoint	Short, midterm, and final exams
19	1	Vital pulp therapy pulpotomy	pulp therapy	Theoretical Lecture using PowerPoint	Short, midterm, and final exams
20	1	Non vital pulp therapy techniqu	pulp therapy	Theoretical Lecture using PowerPoint	Short, midterm, and final exams
21	1	Reaction of pulp to various capping material	Pulp therapy	Theoretical Lecture using PowerPoint	Short, midterm, and final exams
22	1	Local anesthesia and pain contr for children	Local anesthesia	Theoretical Lecture using PowerPoint	Short, midterm, and final exams
23	1	Anesthetizing mandibular and maxillary teeth and soft tissue	Local anesthesia	Theoretical Lecture using PowerPoint	Short, midterm, and final exams
24	1	complications after a local anesthetic	Local anesthesia	Theoretical Lecture using PowerPoint	Short, midterm, and final exams
25	1	complications after a local anesthetic	Local anesthe	Theoretical Lecture using PowerPoint	Short, midterm, and final exams
26	1	Oral surgery for children, indication and contraindications for extraction of primary teeth	Oral surgery for children	Theoretical Lecture using PowerPoint	Short, midterm, and final exams
27	1	technique for extraction of primary teeth	Oral surgery for children	Theoretical Lecture using PowerPoint	Short, midterm, and final exams
28	1	extraction complications	Oral surgery for children	Theoretical Lecture using PowerPoint	Short, midterm, and final exams
29	1	postoperative extraction complications, radiographic survey of teeth extracted	Oral surgery for children	Theoretical Lecture using PowerPoint	Short, midterm, and final exams
30	1	Infections manifestation and management	Infections manifestation	Theoretical Lecture using PowerPoint	Short, midterm, and final exams
130. 30					1

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	
131. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	McDONALD AND AVERY'S DENTISTRY for CHILD and ADOLESCENT 2016 by Elsevier
Main references (sources)	Pediatric Dentistry Damile 3rd ed. 2009
Recommended books and references (scientific journals, reports...)	Text book of pediatric dentistry Nikhil Marwa 2nd ed. 2009 New Delh Hand book of pediatric dentistry (Cameron) mosby/third edition/2008 Principles and practice of pedodontics /Arathi Rao Jaypee/second edition2008 Paediatric Dentistry/ Richard Welbury/ Fourth edition Oxford University Press, 2012
Electronic References, Websites	www.ajodo.org, PubMed

Course Description Form (Practical)

132.	Course Name:
	Pedodontics
133.	Course Code:
	PE427
134.	Semester / Year:
	Two semester /4th stage
135.	Description Preparation Date:
	26-10-2025
136.	Available Attendance Forms:
	Weekly
137.	Number of Credit Hours (Total) / Number of Units (Total)
	60 hours clinical
138.	Course administrator's name (mention all, if more than one name)
	Name: zainab abd alrudha aldahan Email: Zainab.aldahan@uruk.edu.iq
139.	Course Objectives

Course Objectives to understand and comprehend the theoretical and practical methods treating all cases of pediatric dental injury, and to familiarize the student with scientific methods and techniques, supported by illustrative tools, to identify primary and permanent teeth and problems associated with them.	• ..... • ..... • .....

140.	Teaching and Learning Strategies
Strategy	Delivering seminars using data presentations using liquid crystal screens, showing educational films.

141. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2	Hypodontia among children	Hypodontia	presentation using PowerPoint	Short exams
2	2	Anodontia among	Anodontia	presentation	Short exams

		children		using PowerPoint	
3	2	Rampant caries among children	Rampant caries	presentation using PowerPoint	Short exams
4	2	Staining among childr	Staining	presentation using PowerPoint	Short exams
5	2	Types of Caries removal techniques	Caries	presentation using PowerPoint	Short exams
6	2	Restoration of prim and young perman teeth with variety ty of restorative material	Restoration	presentation using PowerPoint	Short exams
7	2	Rubber dam	Rubber dam	presentation using PowerPoint	Short exams
8	2	Minor oral surgery	oral surgery	presentation using PowerPoint	Short exams
9	2	Thumb sucking habits	Habits	presentation using PowerPoint	Short exams
10	2	Pulp therapy permanent dentition	Pulp therapy	presentation using PowerPoint	Short exams
11	2	Pulp therapy for primary dentition	Pulp therapy	presentation using PowerPoint	Short exams
12	2	Materials used for pulp therapy	Pulp therapy	presentation using PowerPoint	Short exams
13	2	Crowns in pediatric dentistry	Crowns in pediatric Dentistry	presentation using PowerPoint	Short exams
14	2	Maintenance of pulp vitality by use of regenerative materials	Maintenance of pulp	presentation using PowerPoint	Short exams
15	2	Root canal treatment anterior non vital teeth	Root canal treatment	presentation using PowerPoint	Short exams
16	2	Root canal treatment anterior non vital Teeth	Root canal treatment	presentation using PowerPoint	Short exams
17	2	Root canal treatment	Root canal treatment	presentation using	Short exams

				PowerPoint	
18	2	Management of Molar incisor hypomineralization M	Hypomineralization	presentation using PowerPoint	Short exams
19	2	Behavior management for patients	Behavior Management	presentation using PowerPoint	Short exams
20	2	Infection control re-assurance and guidance of students	Infection control	presentation using PowerPoint	Short exams
21	2	Tooth colored restoration technique	restoration technique	presentation using PowerPoint	Short exams
22	2	Radiographic prescription interpretation of results	Radiograph	presentation using PowerPoint	Short exams
23	2	Space maintainers	Space maintainers	presentation using PowerPoint	Short exams
24	2	Fluoride application as a preventive measure	Fluoride	presentation using PowerPoint	Short exams
25	2	Cleft lip and palate	Cleft lip and palate	presentation using PowerPoint	Short exams
26	2	Supernumerary teeth and their impact on teeth eruption	Supernumerary teeth	presentation using PowerPoint	Short exams
27	2	Management of medically compromised children	medically compromised children	presentation using PowerPoint	Short exams
28	2	Diagnosis and treatment plan	Diagnosis and treatment plan	presentation using PowerPoint	Short exams
29	2	ART technique	ART	presentation using PowerPoint	Short exams
30	2	Periodontal diseases children	Periodontal diseases	presentation using PowerPoint	Short exams

142. 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

143. Learning and Teaching Resources

Required textbooks (curricular books, if any)	McDONALD AND AVERY'S DENTISTRY for CHILD and ADOLESCENT 2016 by Elsevier

Main references (sources)	Pediatric Dentistry Damile 3rd ed. 2009
Recommended books and references (scientific journals, reports...)	Text book of pediatric dentistry Nikhil Marwa 2nd ed. 2009 New Delh Hand book of pediatric dentistry (Cameron) mosby/third edition/2008 Principles and practice of pedodontics /ArathiRao Jaypee/second edition2008
Electronic References, Websites	www.ajodo.org, PubMed

Course Description Form (Theoretical)

1. Course Name: Periodontology

2. Course Code: PERIO6401

3. Semester / Year: 2025-2026

4. Description Preparation Date: 1-10-2025

5. Available Attendance Forms: LECTURES

6. Number of Credit Hours (Total) / Number of Units (Total)

30 HRS

7. Course administrator's name (mention all, if more than one name)

Name: PROFF. KADHIM JAWAD HANAU
Email: kadhumjawad@uruk.edu.iq

8. Course Objectives

Course Objectives	**Provide full knowledge for students about periodontal disease etiology and management**

9. Teaching and Learning Strategies

Strategy	Program of lectures presented using Microsoft office PowerPoint Using computers through multiple LCD smart screens.

. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	1	Theoretical	Terminology and	Power point	Daily, midyea

		Knowledge	definitions in periodontal diseases	lecture	And final exams
2	1	Theoretical Knowledge and explanation	Anatomy of periodontium -Oral mucosa -Gingiva	Power point lecture	Daily , midyear And final exams
3	1	Theoretical Knowledge and explanation	Anatomy of periodontium -periodontal ligament	Power point lecture	Daily , midyear And final exams
4	1	Theoretical Knowledge and explanation	Anatomy of periodontium -root cementum	Power point lecture	Daily, midyear And final exams
5	1	Theoretical Knowledge and explanation	Anatomy of periodontium -alveolar bone	Power point lecture	Daily, midyear And final exams
6	1	Theoretical Knowledge and explanation	Anatomy of periodontium -Blood supply -innervation	Power point lecture	Daily, midyear And final exams
7	1	Theoretical Knowledge and explanation	Classification of periodontal diseases (I)	Power point lecture	Daily, midyear And final exams
8	1	Theoretical Knowledge and explanation	Classification of periodontal diseases (II)	Power point lecture	Daily, midyear And final exams
9	1	Theoretical Knowledge and explanation	Etiology of Periodontal Diseases Plaque biofilm	Power point lecture	Daily, midyear And final exams
10	1	Theoretical Knowledge and explanation	Microbiology of plaque biofilm	Power point lecture	Daily, midyear And final exams
11	1	Theoretical	Microbiologic	Power point	Daily,

		Knowledge and explanation	Specificity of PDS	lecture	midyear And final exams
12	1	Theoretical Knowledge and explanation	Dental calculus	Power point lecture	Daily, midyear And final exams
13	1	Theoretical Knowledge and explanation	Dental stains	Power point lecture	Daily, midyear And final exams
14	1	Theoretical Knowledge and explanation	Pathogenesis of PDS Mechanisms of Pathogenicity	Power point lecture	Daily, midyear And final exams
15	1	Theoretical Knowledge and explanation	Pathogenesis of PDS Immune host response	Power point lecture	Daily, midyear And final exams
16	1	Theoretical Knowledge and explanation	Etiology of PDS, risk factors -systemic factors	Power point lecture	Daily, midyear And final exams
17	1	Theoretical Knowledge and explanation	Etiology of PDS, risk factors -local factors	Power point lecture	Daily, midyear And final exams
18	1	Theoretical Knowledge and explanation	Smoking and Periodontal Diseases	Power point lecture	Daily, midyear And final exams
19	1	Theoretical Knowledge and explanation	Impact of PDS On systemic Health -respiratory diseases	Power point lecture	Daily, midyear And final exams
20	1	Theoretical Knowledge and explanation	Impact of PDS On systemic Health -cardiovascular diseases	Power point lecture	Daily, midyear And final exams

21	1	Theoretical Knowledge and explanation	Impact of PDS On systemic Health -diabetes	Power point lecture	Daily, midyear And final exams
22	1	Theoretical Knowledge and explanation	Periodontal Indices	Power point lecture	Daily, midyear And final exams
23	1	Theoretical Knowledge and explanation	Periodontal Pocket -classification -histopathology	Power point lecture	Daily, midyear And final exams
24	1	Theoretical Knowledge and explanation	Periodontal Pocket -Disease activity -abscess	Power point lecture	Daily, midyear And final exams
25	1	Theoretical Knowledge and explanation	Treatment plan Guidelines Phase (I) -behavioral -cause related	Power point lecture	Daily, midyear And final exams
26	1	Theoretical Knowledge and explanation	Treatment plan Guidelines Phase (II) -corrective (surgical)	Power point lecture	Daily, midyear And final exams
27	1	Theoretical Knowledge and explanation	Treatment plan Guidelines Phase (III) -maintenance	Power point lecture	Daily, midyear And final exams
28	1	Theoretical Knowledge and explanation	Plaque control -mechanical -chemical	Power point lecture	Daily, midyear And final exams
29	1	Theoretical Knowledge and explanation	Brath malodor (halitosis)	Power point lecture	Daily, midyear And final exams
30	1	Theoretical Knowledge and explanation	Instrument and Instrumentation In Periodontology	Power point lecture	Daily, midyear And final Exams

1.Course Evaluation
25 % Clinical requirements and daily attendance and daily quizzes 15% Mid-year exam (theoritical) 20 % Final-year clinical exam 40% Final year theoretical exam

2.Learning and Teaching Resources	
Required textbooks (curricular books, if any)	(Newman, Carranza's Clinical Periodonyology) 12th Edition
Main references (sources)	Clinical periodontology and implant Dentistry Jane Lindhe (4th edition)
Recommended books and references (scientific journals, reports...)	Fundamentals of periodontal Instrumentation and advanced root Instrumentation Jill.S & Nield-Gehrig 6th edition
Electronic References, Websites	Numerous websites

Course Description Form (Practical)

13.Course Name: clinical periodontology
14.Course Code:
15.Semester / Year: 2025-2026
16.Description Preparation Date: 1-10-2025
17.Available Attendance Forms: Clinical practice in periodontal department clinics
18.Number of Credit Hours (Total) / Number of Units (Total)
90 hrs 3 units

19. Course administrator's name (mention all, if more than one name)

Professor. MSc. KADHIM JAWAD HANAU:
Email: kadhumjawad@uruk.edu.iq
Professor. Phd. Abdul kareem Abd Ali al mahammadawy
Email: Dr.kareem49@yahoo.com
Assistant lecturer: Lina Ibtisam Khalid
Email: lina.ibtisam.khaled@uruk.edu.iq
Assistant lecturer: Sana Faiq Hadratie Naurooz Alrubaie
Email: Sana.f.alrubaie@uruk.edu.iq
Assistant lecturer: Maha Abdulsalam Mohammed
Email: Maha.abdulsalam@hi-uc.edu.iq
Assistant lecturer: Athraa awaid monsor
Email: Azraa.Awaid1205a@codental.uobaghdad.edu.iq

20.Course Objectives

Course Objectives	**Teach the students to gain skills in Diagnosis and management of patients with Periodontal diseases under supervision qualified teaching staff**

21.Teaching and Learning Strategies

Strategy	3 hrs. weekly clinic includes all required practice on providing health care for patients complaining of PDs.

. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1-30	3	Clinical Practice	Treatment of Patients with PDs (scaling & Polishing) Manually	Supervision And Providing Clinical Assistant	Case Evaluation And apreciation

3.Course Evaluation

Minimum require treated cases: 10 cases (simple, moderate and difficult)
Each case evaluated of : 100 %
Maximum mark for total year : 25 %

4.Learning and Teaching Resources

Required textbooks (curricular books, if any)	(Newman, Carranza's Clinical Periodonyology) 12th Edition
Main references (sources)	Clinical periodontology and implant Dentistry Jane Lindhe (4th edition)

Recommended books and references (scientific journals, reports...)	Fundamentals of periodontal Instrumentation and advanced root Instrumentation Jill. S & Nield-Gehrig 6th edition
Electronic References, Websites	Numerous websites

FIFTH STAGE: Course description

Item	Description
Course Name	Prosthodontics
Course Code	PR510
Academic Year	Annual
Date of Preparation	2025–2026
Attendance Type	Lectures and Clinics
Total Study Hours	Theoretical: 30 hours – Practical: 60 hours
Total Credit Units	60
Course Coordinator	• **Asst. Prof. Dr. Salah Abdullah Mohammed** (Theoretical) • **Prof. Dr. Khalaf Abdulrahman Abdul Hanan** • **Lecturer Dr. Israa Saad Mohammed** (Practical) • **Assistant Lecturer Samar Sabah Alwan** (Practical) • **Assistant Lecturer Ibrahim Fouad** (Practical

Course objectives

No.	Objective
1	Introduce Dental Technology as a fundamental subject studied over four academic years.
2	Familiarize students with terminology used in the course to ensure correct understanding.
3	Teach the practical steps required for fabrication of complete dentures.

Teaching and Learning Strategies

No.	Strategy
1	E-learning
2	PowerPoint-based lectures
3	Whiteboard teaching
4	Educational videos
5	Interactive lectures and brainstorming with students

Course Structure

No.	Topic Title	Lesson Type	Hours	Lectures
1	Occlusion in complete dentures	Theoretical	2	1+2

2	Retention, stability and support	Theoretical	2	3+4
3	Complications of complete dentures	Theoretical	2	5+6
4	Post-insertion problems	Theoretical	2	7+8
5	Immediate denture	Theoretical	2	9+10
6	Classification systems for completely edentulous patients	Theoretical	2	11+12
7	Posterior palatal seal area	Theoretical	1	13
8	Single complete denture	Theoretical	1	14
9	Geriatric dentistry	Theoretical	2	15+16
10	Maxillofacial prostheses	Theoretical	2	17+18
11	Residual ridge resorption	Theoretical	1	19
12	Dental implantology	Theoretical	3	20+21+22
13	Characteristics of ideal materials for dental implants	Theoretical	1	23
14	Esthetics in complete dentures	Theoretical	2	24+25
15	Copy denture	Theoretical	1	26
16	Overdenture	Theoretical	2	27+28
17	Attachments in overdenture	Theoretical	1	29
18	Neutral zone in complete dentures	Theoretical	1	30

Assessment Methods

Assessment Type	Percentage
Continuous assessment (attendance, activities, quizzes, reports)	25%
Final practical exam	25%
Final theoretical exam	35%
Total	100%

Learning Resources

No.	Resource Type	Title
1	Textbook	Prosthodontic Treatment for Edentulous Patients: Complete Dentures and Implant-Supported Prostheses
2	Textbook	Complete Denture Prosthodontics
3	Textbook	Essentials of Prosthodontics
4	Additional resource	Textbooks and electronic resources (Internet)
5	Additional resource	Application of the Neutral Zone in Prosthodontics
6	Additional resource	Complete Dentures: From Planning to Problem Solving
7	Additional resource	Post-insertion problems and their

		management
8	Additional resource	Evaluation of patient satisfaction and complications in complete denture wearers

Clinical Requirements

Lab No.	Study Unit
1	Two cases of upper and lower complete dentures
2	One single complete denture against partial denture or natural teeth
3	One immediate or flexible RPD
4	One denture repair case
	Total clinical hours: 150

Course Description Form (Theoretical)

1. Course Name:	
Conservative and esthetics dentistry	
2. Course Code:	
519CV	
3. Semester / Year:	
2025-2026	
4. Description Preparation Date:	
26-10-2025	
5. Available Attendance Forms:	
Attendance in the classroom for theoretical material and clinical clinics	
6. Number of Credit Hours (Total) / Number of Units (Total)	
30 hours/60 credit hours 150 practical hours (6 credit hours)	
7. Course administrator's name (mention all, if more than one name)	
Name: Hasan Nabeel Abdulqader Email: drhasannabeel89@gmail.com	
8. Course Objectives	
Course Objectives	Providing dental students with comprehensive knowledge on metho of performing patient examinations, diagnosing various condition and applying clinical understanding and knowledge in treatment become community dentists. In this course, students are clinica trained in restorative dentistry (fillings/root fillings/crowns an bridges). Students also undergo clinical training on patients in t dental clinic under the supervision of specialized professors. Studen are also trained to recognize and handle the tools used in restorati dentistry, and are provided with comprehensive knowledge of t basic principles of creatin dental cavities and filling them wi various metal and light fillings. Students are taught the practical ste of apical fillings and are trained in the processes of preparing fix crowns and bridges and replacing missing teeth. Students are al trained to evaluate their mistakes and improve their skills.
9. Teaching and Learning Strategies	
Strategy	- Knowledge and Understanding - A. Knowledge and training of students on how to examine and diagno various medical conditions. - Focus on the clinical steps for prepari crowns and bridges for teeth and replacing missing teeth.

Students acquire a comprehensive knowledge of the clinical steps for ro canal fillings and their application. Strategy

B. Subject-Specific Skills -

Students acquire skills in using various restorative and root canal filli tools. - Students acquire clinical skills by enabling them to perfor root canal fillings on patients in clinics. Develop their clinical ski by training them to prepare crowns and bridges to replace missi teeth for patients. -

C. Teaching and Learning Methods -

Lectures that stimulate and educate students on problem-solving a problem-solving techniques.

Monitoring students' thinking, expression, and response speed.

Dentistry. Clinical practical lessons in dental clinics.

Lectures presented using computer programs. Educational films.

Digital cameras.

Practical application on patients.

H - Thinking Skills -

Enhancing thinking skills through problem-based learning. Acquiring t basic principles set forth in the curriculum. Teaching studen methods for solving problems.

G - General and Transferable Skills

Scientifically preparing students to apply dental treatment skills in t clinical setting and think about solving problems.

Teaching professional ethics.

Skills acquired by the student to become a dentist capable of treati patients.

Personal Development.

10. Course Structure

Week	Hours	Required learning outcomes	Name of the unit or subject	Learning method	Evaluation method
1	1	Diagnosis and treatment planning	Conservative and esthetics dentistry	Theoretical lectures using Power Point	Daily, monthly, semi-annual and final exams
2	1	enamel	Conservative and esthetics dentistry	Theoretical lectures using Power Point	Daily, monthly, semi-annual and final exams
3	1	dentien	Conservative and esthetics dentistry	Theoretical lectures using Power Point	Daily, monthly, semi-annual and final exams

4	1	Dental caries	Conservative and esthetics dentistry	Theoretical lectures using Power Point	Daily, monthly, semi-annual and final exams
5	1	Intracanal instruments (2)	Conservative and esthetics dentistry	Theoretical lectures using Power Point	Daily, monthly, semi-annual and final exams
6	1	Caries detection	Conservative and esthetics dentistry	Theoretical lectures using Power Point	Daily, monthly, semi-annual and final exams
7	1	bonding	Conservative and esthetics dentistry	Theoretical lectures using Power Point	Daily, monthly, semi-annual and final exams
8	1	Laser in dentistary	Conservative and esthetics dentistry	Theoretical lectures using Power Point	Daily, monthly, semi-annual and final exams
9	1	Direct composite	Conservative and esthetics dentistry	Theoretical lectures using Power Point	Daily, monthly, semi-annual and final exams
10	1	In direct c0mposite	Conservative and esthetics dentistry	Theoretical lectures using Power Point	Daily, monthly, semi-annual and final exams
11	1	Pulp irritant	Conservative and esthetics dentistry	Theoretical lectures using Power Point	Daily, monthly, semi-annual and final exams

12	1	Obturation of RCS (2)	Conservative and esthetics dentistry	Theoretical lectures using Power Point	Daily, monthly, semi-annual and final exams	
13	1	Pulp reaction	Conservative and esthetics dentistry	Theoretical lectures using Power Point	Daily, monthly, semi-annual and final exams	
14	1	Endo-perio relations	Conservative and esthetics dentistry	Theoretical lectures using Power Point	Daily, monthly, semi-annual and final exams	
15	1	Restoration of endo treated teeth	Conservative and esthetics dentistry	Theoretical lectures using Power Point	Daily, monthly, semi-annual and final exams	
16	1	Caries removal	Conservative and esthetics dentistry	Theoretical lectures using Power Point	Daily, monthly, semi-annual and final exams	
17	1	Patient selection and examination in FPDs	Conservative and esthetics dentistry	Theoretical lectures using Power Point	Daily, monthly, semi-annual and final exams	
18	1	Clinical consideration for bridge construction	Conservative and esthetics dentistry	Theoretical lectures using Power Point	Daily, monthly, semi-annual and final exams	
19	1	Component of fixed bridge, retainers	Conservative and esthetics dentistry	Theoretical lectures	Daily, monthly, semi-	
				using Power Point	annual and final exams	

20	1	Component of fixed bridge, pontics and connectors	Conservative and esthetics dentistry	Theoretical lectures using Power Point	Daily, monthly, semi-annual and final exams	
21	1	Soft tissue management /Gingival Displacement.	Conservative and esthetics dentistry	Theoretical lectures using Power Point	Daily, monthly, semi-annual and final exams	
22	1	Impression Materials & Procedures	Conservative and esthetics dentistry	Theoretical lectures using Power Point	Daily, monthly, semi-annual and final exams	
23	1	Tooth discoloration & bleaching	Conservative and esthetics dentistry	Theoretical lectures using Power Point	Daily, monthly, semi-annual and final exams	
24	1	Bite Registration and Articulation	Conservative and esthetics dentistry	Theoretical lectures using Power Point	Daily, monthly, semi-annual and final exams	
25	1	Provisional Restorations	Conservative and esthetics dentistry	Theoretical lectures using Power Point	Daily, monthly, semi-annual and final exams	
26	1	Try-in and Shade Selection	Conservative and esthetics dentistry	Theoretical lectures using Power Point	Daily, monthly, semi-annual and final exams	
27	1	Final Cementation Techniques	Conservative and esthetics dentistry	Theoretical lectures using Power Point	Daily, monthly, semi-annual and final exams	

Course Description Form (Theoretical)

25.Course Name:
Dental material
26.Course Code:
519 CV
27.Semester / Year:
2025-2026
28.Description Preparation Date:
26-10-2025
29.Available Attendance Forms:
Attendance in the classroom for theoretical material and laboratories
30.Number of Credit Hours (Total) / Number of Units (Total)
30 hours/60 credit hours 150 practical hours (6 credit hours)
31.Course administrator's name (mention all, if more than one name)
Name: mohammed s.khalil Email: drm60033@gmail.com
32.Course Objectives

Course Objectives	**Knowledge Objectives:** To understand the physical, chemical, mechanical, and biological properties of dental materials. To learn about the composition, setting reactions, and classification of materials used in restorative, prosthodontic, endodontic, orthodontic, and preventive dentistry. To understand the factors that affect material performance, such as temperature, moisture, and stress. Skill Objectives: To develop the ability to handle and manipulate dental materials correctly according to manufacturer instructions and clinical requirements.

	To perform laboratory and clinical procedures involving various materia (e.g., impression making, casting, bonding, etc.). Clinical Objectives: To be able to select the appropriate material for each clinical situation based on its properties and patient needs. To understand the biocompatibility and safety considerations of material in the oral environment. Ethical and Professional Objectives: To encourage critical thinking and evidence-based selection of materials To promote awareness of new technologies and advances in den materials science.
33.Teaching and Learning Strategies	
Strategy	The strategy of the Dental Materials course is to combine theoretic knowledge with practical application to ensure students understan both the science and the clinical use of dental materials. The cours emphasizes active learning, critical thinking, and hands-on experience through the following approaches: Lectures and Multimedia Presentations: Deliver foundational knowledge about the composition, properties and uses of dental materials. Supported with visual aids, videos, and case examples to enhance understanding. Laboratory Sessions: Provide students with direct experience in handling, mixing, manipulating, and testing various dental materials. Encourage the development of manual dexterity and technical competence. Demonstrations and Simulations:

	Instructors demonstrate proper techniques and procedures before student practice. Use of simulation models to replicate clinical conditions. Group Discussions and Problem-Based Learning: Encourage teamwork and the application of theoretical knowledge to solve clinical problems. Develop communication and analytical skills. Assignments and Reports: Reinforce theoretical concepts through research, reflection, and written documentation. Assessments: Regular quizzes, practical evaluations, and final examinations assess both cognitive and psychomotor learning outcomes.

34.Course Evaluation
15% for the semester Annual study (including summer training, daily and monthly exams, and practical requirements) 25% for the final practical exam 40% for the final theoretical exam

35.Learning and Teaching Resources	
Required textbooks (curricular books any)	Endodontics, Engel, Pulp Pathways, Wayne Contemporary Fixed Prosthodontics Basic Considerations in Fixed Prosthodontics. Theoretical and clinical training on the use of various materials and techniques in fixed prosthodontics. Fixed and Removable Prosthodontics
Main references (sources)	Fundamentals of fixed prosthodonti Theoretical and clinical training on the use various materials and techniques in fix prosthodontics. Fixed and removal prosthodontics.
Recommended books and references	

(scientific journals, reports...)	
Electronic References, Websites	

No.	Title Of The Lectures	Subtitles	Hours
1	Introduction and physi properties of dental material	• Introduction to dental materi • Physical, chemical and biologi properties of dental materials	1
2	Mechanical properties	• Mechanical properties	1
3	Gypsum materials	• Definition, requirement, typ • gypsum bonded investm • phosphate bonded investm • ethyl silicate bonded	1
4	Gypsum materials	• Definiti • Ideal properties • Classification of impressi materials ➢ Non elastic impressi materials ➢ Impression plas ➢ Impression compou ➢ Zinc oxide - euge ➢ Elastomeric impressi material	1
5	Impression materials		
6	Impression materials		1
7	Impression materials		1

8	Impression materials		1
9	Impression materials		1
10	Waxes	• Definition, • Requirements, classification of wax according to origin & meltin point, • classification of wax according uses, • properties of dental	1
11		Waxes	1
12	Polymers	• Polymers and polymerization • Definition of polymer, co-polymer, cross-link polymer and Degree of polymerization • Factors which control structure and properties of polymer • Types of polymerization ✓ Heat activated acrylic ✓ Composition ✓ Properties ✓ Chemically activated resin ✓ Composition ✓ Properties ✓ Light activated resin ✓ Composition ✓ Properties • Chemically activated resin compared to heat activated resins • Polymers used in dentistry • Processing errors	1
13		Polymers	1
14	Investment materials		1

		• factors affecting setting time, setting expansion, strength, storag and manipulation of gypsum products, and hygroscopic expansion	
15	Cement materials	• Classification of dental cements • Definition • Requirements	1
16	Temporary filling	• Definition • indication • Types • Requirements	1
17	Metal and metal alloy	• Metallic denture base materials ✓ Types of metal and metal allo ✓ Definition of alloy ✓ Requirement of casting alloy ✓ Application of dental alloy ✓ classification of metal classification of dental alloy ✓ gold (advantage), gold alloy, non-gold alloys ✓ Composition ✓ Properties	1
18		Metal and metal alloy	1
19	Metal and metal alloy	• Alternative of gold alloy ✓ Metal ceramic alloys ✓ Requirement ✓ Types ✓ Removable denture base alloy ✓ Requirements	1

		✓ Types ✓ Co-Cr Alloy ✓ Application ✓ Composition ✓ Properties ✓ Advantages ✓ Disadvantages	
20	Metal and metal alloy	• Titanium and Titanium alloys ✓ Applications ✓ Properties ✓ Ni/Cr alloys ✓ Composition ✓ Indications ✓ Wrought stainless steel alloy	1
21	Filling materials	• Direct filling material • Definition • Factors causing loss	1
22	Filling materials		1
23	Filling materials		1
24	Filling materials		1
25	Preventive materials	• Preventive materials	1
26	Root canal filling materials (obturation materials)	• Root canal filling materials (obturation materials)	1
27	Finishing and polishing material	• Finishing and polishi	1

		material	
28	Relining material	• Definition • Types • Requirements • Indication • Soft liners ✓ Types ✓ Requirements ✓ Indication ✓ Properties	1
29	Implant materials	• Implant materials	1
30	Maxillofacial materials	• Maxillofacial materia	1
		Total	30

Laboratory sessions

No.	Title of lab.	Hours
1	**Introduction and physical properties of dental material**	**2**
2	**Mechanical properties (stress strain curve)**	**2**
3	**Showing different types of gypsum materials (plaster and stone)**	**2**
4	**Steps of mixing plaster and demonstrate the steps of setting**	**2**
5	**Impression plaster, demonstrate the manipulation of impression compound**	**2**
6	**Zinc oxide impression material and agar impression demonstrate the mix of zinc oxide impression**	**2**

7	**Alginate impression (elastic impression) showing the trays used and manipulation of water according to manufacturer instructions**	**2**
8	**Polysulphide, condensation and addition silicon/mixing of heavy body a light body**	**2**
9	**Polyether, digital impression, digital impression**	**2**
10	**Showing different types of wax (denture base plate, denture casting wax a others**	**2**
11	**Demonstrate how to use wax material and its manipulation**	**2**
12	**Introduction to polymers**	**2**
13	**Different types of denture base material heat, cold and light activated polyn demonstrate the mixing of polymer and monomer**	**2**
14	**Thermoplastic polymers (flexible denture base material)**	**2**
15	**Investment materials (showing the method of the investment)**	**2**
16	**Introduction to cement materials**	**2**
17	**Showing different types of cement materials and the method of mixing cement**	**2**
18	**Temporary filling (use and manipulation)**	**2**
19	**Introduction of metal and alloy**	**2**
20	**Showing the different types of metal and metal alloy**	**2**
21	**Introduction to crown and bridge material**	**2**
22	**Amalgam filling showing the amalgam capsules and mixing of amalgam**	**2**
23	**Composite filling (chemical and light activated)**	**2**

24	**Demonstrate the setting of chemical and light activated composite**	**2**
25	**Showing different types of preventive materials (tooth pastes, gargles, Mo fluoride varnishes and resin sealers)**	**2**
26	**Demonstrate the obturating materials (Gutta percha, sealers) and endodor instruments**	**2**
27	**Finishing and polishing materials**	**2**
28	**Relining materials**	**2**
29	**Implant materials**	**2**
30	**Maxillofacial materials**	**2**
	Total	**60**

2. Course Evaluation
15% for the semester Annual study (including summer training, daily and monthly exams, and practical requirements) 25% for the final practical exam 40% for the final theoretical exam
2. Learning and Teaching Resources

Required textbooks (curricular boo if any)	These are the standard and most widely used references: 3. **Phillips' Science of Dental Materials** o *By Kenneth J. Anusavice, Chiayi Shen, H. Ralph Ra* o Latest Edition: 13th (Elsevier) o *The most comprehensive and authoritative textb covering the physical, chemical, and mechani properties of dental materials.* 4. **Craig's Restorative Dental Materials** o *By Ronald Sakaguchi & John Powers* o Latest Edition: 14th (Elsevier) o Focuses on restorative materials and clini applications with strong scientific explanations. o Suitable for students needing practical, clinic level understanding of material handling a application
Main references (sources)	**Dental Materials: Clinical Applications for Dental Assistants a Dental Hygienists** - ***By Carol Dixon Hatrick, W. Stephen Eakle, William F. Bi*** - **Latest Edition: 4th (Elsevier)**
Recommended books and referen (scientific journals, reports...)	
Electronic References, Websites	

Course Description Form (Theoretical)

25.Course Name: oral surgery 5th year
26.Course Code: OS522
27.Semester / Year: yearly

28.Description Preparation Date: 2025-2026

29.Available Attendance Forms: Theoretical lectures and clinical clinics

30.Number of Credit Hours (Total) / Number of Units (Total)

30 hours theory and 180 hours clinically per year
Total units are 8

31.Course administrator's name (mention all, if more than one name)

Name: Dr. Sundus Abbass Ali sundusabbas@uruk.edu.iq
Dr.Mohammed Mageed Mohammed_S_Majeed@uruk.edu.iq

32.Course Objectives

Course Objectives The decision is to be made 1 student on high level from Scientific While Rela With surgery mouth And recognition on Tc Surgical Private By his work in Surgery addition acquisition knowledge Of all kinds Anesth topical and His methods and problems and Complications Associated With it	• ..... • ..... • .....

33.Teaching and Learning Strategies

Required Learning Outcomes	1- Lectures by using power point 2- Using educational films 3- Use whiteboard and screens 4- Organizing of discussion sections 5- Using of the electronic - learning

. Course Structure

Week	**Hours**		**Unit or subject name**	**Learning method**	**Evaluation method**
1	1	1- Classification 2- Diagnosis 3- Somatic pain 4- Neurologic pain 5- Vascular pain	Orofacial pain	Lecture power point	1- Quizzes 2- Midyear exam 3- Final exam
2	1	1- Etiology of maxillo 2- Facial trauma 3- Primary survey and Advanced trauma Life support 4- Secondary survey	Preliminary manage-Ment of patient with Facial fracture	Lecture power point	1- Quizzes 2- Midyear exam 3- Final exam
3	1	1- Classification 2- Clinical features 3- Imaging 4- treatment 5- teeth in fracture line 6-Complications	Fracture of the mandible	Lecture power point	1- Quizzes 2- Midyear exam 3- Final exam

4	1	Mandibular fracture That required special Consideration 1- pediatric 2- Edentulous patient 3- Condylar fracture 4- Comminuted fracture	Fracture of the mandible	Lecture power point	1- Quizzes 2- Midyear exam 3- Final exam
5	1	1- Classification 2- clinical presentation 3- Imaging and treatment 0f Lefort fractures Zygomatic complex fractures	Fracture of the middle Third of the facial skeleton	Lecture power point	1- Quizzes 2- Midyear exam 3- Final exam
6	1	Treatment of 1-Orbital floor fracture 2-Nasal bone fracture Complications of middle Third fracture	Fracture of the middle Third of the facial skeleton	Lecture power point	1- Quizzes 2- Midyear exam 3- Final exam
7	1	1- factors affecting the Dentoalveolar fracture 2- Classifications 3- clinical presentation 4-radiographic appearanc 5- Treatment 6- Splinting techniques 7- C0mplications Soft tissue injuries 1- classification 2- Treatment	Dentoalveolar and soft tissue injuries	Lecture power point	1- Quizzes 2- Midyear exam 3- Final exam 1- Quizzes 2- Midyear exam 3- Final exam
8	1	1- definition 2- Preoperative exam 3- Clinical examination 4- Radiographic evaluati 5- Bony recontouring procedures	Preprosthetic surgery	Lecture power point	1- Quizzes 2- Midyear exam 3- Final exam
9	1	1- Soft tissue procedures 2- Alveolar ridge preservations	Preprosthetic surgery	Lecture power point	1- Quizzes 2- Midyear exam 3- Final exam
10	1	1- classification 2- Risk factor 3- diagnosis 4-potentially malignant disorders	Potentially malignant disorders of oral mucosa	Lecture Power point	1- Quizzes 2- Midyear exam 3- Final exam
11	1	1- Over view of maxillary sinus 2-clinical exam	Odontogenic disease Of maxillary sinus	Lecture Power point	1- Quizzes 2- Midyear exam 3- Final exam

		3- radiographic exam 4- Odontogenic infection 5- Nonodontogenic Infection 6- Oroantral fistula 7- Treatment			
12	1	1-definition 2- Classification 3- Clinical features 4-Radiographic features 5- Surgical treatment	Benign cystic lesion Of the oral cavity	Lecture Power point	1- Quizzes 2- Midyear exam 3- Final exam
13	1	1-definition 2- Classification 3- Clinical features 4-Radiographic features 5- Ameloblastoma 6- Odontoma 7- Surgical treatment	Odontogenic tumors	Lecture Power point	1- Quizzes 2- Midyear exam 3- Final exam
14	1	1- classification 2- Giant cell lesion 3- Fibro-osseous lesion	Non- odontogenic Tumors and firo-oss Lesion of the jaws	Lecture Power point	1- Quizzes 2- Midyear exam 3- Final exam
15	1	1-Etiology 2- Site distribution 3- Clinical presentation 4- Radiographic exam 5- Surgical treatment	Oral cancer	Lecture Power point	1- Quizzes 2- Midyear exam 3- Final exam
16	1	-Management of the Neck -postoperative follow-up -Treatment modalities -Palliative treatment	Oral cancer	Lecture Power point	1- Quizzes 2- Midyear exam 3- Final exam
17	1	-Immediate post-Extraction implant -Immediate loading Versus delayed loading -Bone graft and bone Substitutes -Sinus lift procedure	Implant treatment Advanced Concepts	Lecture Power point	1- Quizzes 2- Midyear exam 3- Final exam
18	1	-Inferior alveolar nerve Lateralization -Narrow and short Implant -Image- guided -Implantology -Computer- assisted	Implant treatment Advanced Concepts	Lecture Power point	1- Quizzes 2- Midyear exam 3- Final exam

		Implant surgery -Special implants			
19	1	Salivary glands Clinical assessment Imaging Classification	Salivary gland disease	Lecture Power point	1- Quizzes 2- Midyear exam 3- Final exam
20	1	!-Autoimmune condition 2- other conditions 3- neoplasm 4- Complication of salivary gland surgery	Salivary gland disease	Lecture Power point	1- Quizzes 2- Midyear exam 3- Final exam
21	1	1- Anatomy 2- Evaluation 3- Radiograph 4-Disorders of TMJ	TMJ disorders	Lecture Power point	1- Quizzes 2- Midyear exam 3- Final exam
22	1	1-Hypermobility of TMJ 2-Hypomobility of TMJ 3- TMJ ankylosis 4- Treatment	TMJ disorders	Lecture Power point	1- Quizzes 2- Midyear exam 3- Final exam
23	1	1- definition and Objectives 2-Clinical examination 3- Radiographs 4- Treatment timing	Orthognathic surgery	Lecture Power point	1- Quizzes 2- Midyear exam 3- Final exam
24	1	1- Mock surgery 2- Surgical treatment pha 3- Distraction osteogensi	Orthognathic surgery	Lecture Power point	1- Quizzes 2- Midyear exam 3- Final exam
25	1	1-Eitology 2- Classification 3- Clinical examination 4- Management	Cleft lip and palate	Lecture Power point	1- Quizzes 2- Midyear exam 3- Final exam
26	1	1- Management 2-Surgical procedures 3- Secondary operative Management	Cleft lip and palate	Lecture Power point	1- Quizzes 2- Midyear exam 3- Final exam
27	1	1- Classification of laser 2- Advantages 3- Hazards 4- Cryosurgery 5- Uses and techniques 6- Advantages 7- Disadvantages	Laser and cryosurgery	Lecture Power point	1- Quizzes 2- Midyear exam 3- Final exam

28	1	1- Classification 2- Hemangioma 3- Vascular malformation	Vascular anomalies	Lecture Power point	1- Quizzes 2- Midyear exam 3- Final exam
29	1	1-Goals of Reconstruction 2- Types of grafts 3-Mandibular Reconstruction 4- Surgical principle of Bone graft procedures	Principle of Recon-structive surgery of defects of the jaw	Lecture Power point	1- Quizzes 2- Midyear exam 3- Final exam
30	1	1-Maxillary reconstructic 2- Goals 3- Flaps used 4- Classifications of flaps	Principle of Recon-structive surgery of defects of the jaw	Lecture Power point	1- Quizzes 2- Midyear exam 3- Final exam

5.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

1- First semester + second semester 25% 10% theory
15% practical

2- Midyear exam 15% 15% only theory

3- Final exam 60% 40% theory
20% practical

6.Learning and Teaching Resources

Required textbooks (curricular books any)	Contemporary maxillofacial surgery 27th edition 2018 Dental implant 4th edition 2019
Main references (sources)	
Recommended books and references (scientific journals, reports...)	Journals of oral and maxillofacial surgery
Electronic References, Websites	Electronic References, Websites

Course Description Form (Practical)

37.Course Name: oral surgery 5th stage

38.Course Code: Os522

39.Semester / Year: Yearly

40.Description Preparation Date:2025-2026

41.Available Attendance Forms: Attendance in oral surgery clinic

42.Number of Credit Hours (Total) / Number of Units (Total) 180 hour per year

43.Course administrator's name (mention all, if more than one name)

Name: Dr. Sundus Abbass DR. Mohammed Saeed
Email: sundusabbas@uruk.edu.iq Mohammed_S_Majeed@uruk.edu.iq

44.Course Objectives

Course Objectives The decision is to be made 1 student on high level from Scientific While Rela With surgery mouth And recognition on Tools Surgi Private By his work in Surgery addition to acquisit knowledge Of all kinds Anesthesia topical and methods and problems and Complications Associated With it	• ..... • ..... • .....

45.Teaching and Learning Strategies

Strategy	The student must extract 10 teeth which considers as difficult extraction

. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
		The student must extract 10 teeth which considers as difficult extraction			Evaluation of 1- case sheet 2- Anesthesia 3- extraction

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

1. Course Evaluation

15% midyear 25% striving annual) Includes Training Summer and exams Daily And monthly and requirements The process (20 % final practical exam 40 % Exam theoretical Final Total 100%	
2. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	Contemporary maxillofacial surgery 27th editio 2018 Dental implant 4th edition 2019
Main references (sources)	
Recommended books and references (scientific journals, reports...)	Journals of oral and maxillofacial surgery
Electronic References, Websites	Electronic References, Websites

Course Description Form (Theoretical)

47. Course Name: orthodontics \ fifth grade

48. Course Code: orthodontics \ 5260D

49. Semester / Year: 2025-2026

50. Description Preparation Date: 2025-10-01

51. Available Attendance Forms: Attendance in the classroom for the theoretical part, and training clinic for clinical part

52. Number of Credit Hours (Total) / Number of Units (Total): 30 hours theory\ 120 hours clinical

53. Course administrator's name (mention all, if more than one name)

Name: Lecturer Assistant Dr. Hanadi Majeed AL-Taee (theoretical and practical)
Email: dr.hanadi.majeed@uruk.edu.iq
Name: Dr. Luma Salin Danha (practical)
Email: luma.s.danha@uruk.edu.iq
Name: Dr. Anoosh Aram Haeck (practical)

54. Course Objectives

Course Objectiv	**Gain knowledge about methods for diagnosing and treating malocclusion.** **Course Skill Objectives:** **1. Diagnose and treat malocclusion.** **2. Know the types of orthodontic appliances relevant to each case.** **Affective and Value Objectives:** **Solve problems related to malocclusion using removable and functional orthodo appliances.**

55. Teaching and Learning Strategies

Strategy	Lectures using the Show Data (Point Power) program • Orthodontics training clinics • Seminars

. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method

1+2	2	Orthodontic diagnosis a treatment plar	Orthodontic diagnosis a :treatment planning a. Personal data b. Clinical examination i. General body stature ii. Face examination in dimensions iii. Skeletal examinatior iv. Soft tissue examinati v. Occlusion (classification, midline, overjet and overbite) vi. Dentition (teeth number, position, dental age, we cracks and white spots) vii. Temporomandibu joint	Lectures' represented power point	Daily, monthly, semi-annua and final exams
3+4	2	Orthodontic diagnosis a treatment plar	c. Diagnostic aids i. orthopantomography (development, advantag disadvantages, limitatio uses) ii. Study models (preparation, advantages, disadvantages, uses) Handling of denta cast iii. cephalometrics (development, cephalostat, advantages, disadvantages, limitations, uses, tracing and landmarks) iv. Soft tissue analysis, Digitizing	Lectures' represented power point	Daily, monthly, semi-annua and final exams
5+6	2	Orthodontic diagnosis a treatment plar	v. Photography vi. 3D imaging d. Consent form	Lectures' represented power point	Daily, monthly, semi-annua

			e. treatment planning: preventive, interceptive, and corrective orthodontics		and final exams
7	1	Orthodontic diagnosis a treatment plar	Treatment of medically compromised patient	Lectures' represented power point	Daily, monthly, semi-annua and final exams
8	1	Orthodontic diagnosis a treatment plar	Orthodontic Indices	Lectures' represented power point	Daily, monthly, semi-annua and final exams
9+10	2	Orthodontic diagnosis a treatment plar	Vertical Plane Discrepancy and :crossbite a. Deep bite (types, etiology, treatment, skeletal vs. dental) b. Open bite (types, etiology, treatment, skeletal vs. dental)	Lectures' represented power point	Daily, monthly, semi-annua and final exams
11+12	2	Orthodontic diagnosis a treatment plar	c. Cross bite and scissor bite (types, etiology, treatment, skeletal vs. dental) c. Cross bite and scissor bite (types, etiology, treatment, skeletal vs. dental)	Lectures' represented power point	Daily, monthly, semi-annua and final exams
13	1	Orthodontic diagnosis a treatment plar	Crowding, spacing, spac need: a. Types of crowding (primary, secondary and tertiary)	Lectures' represented power point	Daily, monthly, semi-annua and final exams
14	1	Orthodontic diagnosis a treatment plar	b. Space analysis (in permanent and mixed dentition,	Lectures' represented power point	Daily, monthly, semi-annua

			space required and potential space, methods, Bolton's ratio)		and final exams
15+16	2	Orthodontic diagnosis a treatment plar	c. Space creation (molar distalization, expansion, extraction, incisor proclination, proximal stripping, derotation and uprightening) d. Closure of spaces (molar protraction, incisor retraction, conservative)	Lectures' represented power point	Daily, monthly, semi-annua and final exams
17	1	Orthodontic diagnosis a treatment plar	e. Teeth extraction in orthodontics (Types: enforced, therapeutic, Wilkinson, balancing and compensating extractions) (indications advantages, disadvantag for each tooth) f. Serial extraction (definition, indications, procedure, advantages, limitations)	Lectures' represented power point	Daily, monthly, semi-annua and final exams
18	1	Orthodontic diagnosis a treatment plar	Treatment of common local factors: Including definition, prevalence, etiology, types, effect or occlusion, and treatmen (with emphasis maxillary canine): a. Extra -teeth (supernumerary) and missing teeth	Lectures' represented power point	Daily, monthly, semi-annua and final exams

			(hypodontia)		
19	1	Orthodontic diagnosis a treatment plar	b. Early loss of deciduo teeth(space maintainers and space regainers) c. Retained deciduous teeth, delayed eruption of permanent teeth, impacted teeth, ankylosis	Lectures' represented power point	Daily, monthly, semi-annua and final exams
20+21	2	Orthodontic diagnosis a treatment plar	d. Abnormal eruptive behavior (displacement, transposition) e. Large frenum (labial and lingual) f. Bad oral habits	Lectures' represented power point	Daily, monthly, semi-annua and final exams
22	1	Orthodontic diagnosis a treatment plar	Treatment of general factors: a. Class I treatment (etiology, skeletal and soft tissue pattern, dental factors, bimaxilla proclination, treatment methods and time; new orthodon approach)	Lectures' represented power point	Daily, monthly, semi-annua and final exams
23+24	2	Orthodontic diagnosis a treatment plar	b. Class II div. 1 treatme (etiology, skeletal and s tissue pattern, dental factors, habits, treatment metho and time) c. Class II div. 2 treatme (etiology, skeletal and s tissue pattern, dental factors, treatment methods and time)	Lectures' represented power point	Daily, monthly, semi-annua and final exams

25	1	Orthodontic diagnosis a treatment plar	d. Class III treatment (etiology, skeletal and soft tissue pattern, dental factors, treatment methods and time)	Lectures' represented power point	Daily, monthly, semi-annua and final exams
26	1	Orthodontic diagnosis a treatment plar	Treatment of adults Adjunctive orthodontic treatment, Comprehensive orthodontics for adults, problems that are specific to adult patients Orthodontic managemer of patients with periodonta disease:	Lectures' represented power point	Daily, monthly, semi-annua and final exams
27	1	Orthodontic diagnosis a treatment plar	orthognathic surgery (presurgical orthodontic treatment planning, surgical procedures, postsurgical orthodontics); distractio osteogenisis	Lectures' represented power point	Daily, monthly, semi-annua and final exams
28+29	2	Orthodontic diagnosis a treatment plar	Cleft lip and palate (Embryology, classification, orofacial effects) Treatment of Cleft lip a palate	Lectures' represented power point	Daily, monthly, semi-annua and final exams
30	1	Orthodontic diagnosis a treatment plar	Digital orthodontics (digital approach in orthodontic diagnosis and treatment	Lectures' represented power point	Daily, monthly, semi-annua and final exams

7.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

8.Learning and Teaching Resources

Required textbooks (curricular books, if any)	
Main references (sources)	An Introduction to Orthodontics 5th Edition Simon J. Littlewood and Laura Mitchell 2019.

	Orthodontics: Principles and Practice: Principles and Practice 2nd ed. Edition Phulari 2017
Recommended books and references (scientific journals, reports...)	Reports and research published on college website
Electronic References, Websites	College Website, google schooler

Item	Minimum Practical requirement	Hours
	Treatment of one patient: 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)	
total		75

Course Description Form (Theoretical)

59.Course Name: ORAL MEDICINE
60.Course Code:529OM
61.Semester / Year:2025 2026
62.Description Preparation Date: 25 10 2025
63.Available Attendance Forms: PAPERS
64.Number of Credit Hours (Total) / Number of Units (Total)
THEORY 30H PRACTICAL 75H
65.Course administrator's name (mention all, if more than one name)
Name: LECTURAL AHMED ADIL PHD ORAL MEDICINE ASIST LECTURAL YASIR MOHAMED MSC ORAL MEDICIN Email: ahmedadel@uruk.e yassirmohamed @uruk.edu.iq
66.Course Objectives

Course Objectives	**Study oral tissue diseses** **Study T M J disese** **Study relations between oral disea and medical investigations**

67.Teaching and Learning Strategies	
Strategy	Graduating dentists with good experience in oral diseases Good back ground and knowlegment in oral diseases nd relation with other parts of body Scientific knowlegment in prescribing and using drugs w good communications with patients

. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
2 + 1	2		Oral diagnosis+ Clinical examintions	Theory	
4 + 3	2		Laboratory tests	Theory	

6 + 5	2		Oro facial pain	Theory
8 + 7	2		T M J	Theory
9+10+11	3		Vesiculoboulous lessions White red lessions	Theory
13+12	2		Early detection of	Theory
15+14	2		Oral cancer Oral pigmentation	Theory
17+16	2		Benign premalignat	Theory
18 +19+20+ 21	4		And malignant Neuromuscular disorders	Theory
23+22	2		Salivary glands diseses Auto immune diseses	Theory
25+24	2		Allergic conditions	Theory
27+26 +28	3			Theory
30+29	1			Theory

9.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
1115% mid written exam
2225% first and second trimester
4440% written final exam

0.Learning and Teaching Resources

Required textbooks (curricular books, if any)	Burket's oral medicine 20th ed. • TMJ disor and orofacial pain
Main references (sources)	
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	

Course Description Form (Theoretical)

71.Course Name:

Pedodontics

72.Course Code:

530 PAPD

73.Semester / Year:

Two semester /5th stage

74.Description Preparation Date:

26-10-2025

75.Available Attendance Forms:

Weekly

76.Number of Credit Hours (Total) / Number of Units (Total)

30 hours theory and 37.5 hours clinical

77.Course administrator's name (mention all, if more than one name)

Name: zainab abd alrudha aldahan
Email: Zainab.aldahan@uruk.edu.iq
mona hashim
Muna.hashim@uruk.edu.iq

78.Course Objectives

Course Objectives To understand and comprehend the theoretical and pract methods for treating all cases of pediatric dental injury, and to become familiar with scientific methods and techniques, supported illustrative tools, to identify primary and permanent teeth and the problems associated with them.	• ..... • ..... • .....

79.Teaching and Learning Strategies

Strategy	Delivering theoretical lectures using data presentations using liquid crystal screens, showing educational films, and using electronic classes.

. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation me
1	1	Advantages of treatment planning , The diagnostic methods ,	Diagnosis and treatment planning	Theoretical lecture using PowerPoint	Short, mid-term and final exams

		Components of oral examination and diagnosis			
2	1	Art and science of behavior management	Preliminary medical and dental history	Theoretical lecture using PowerPoint	Short, mid-term and final exams
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	Theoretical lecture using PowerPoint	Short, mid-term and final exams
4	1	,Purpose , Classifying children , cooperative behavior	Non pharmacologic management of patient behavior	Theoretical lecture using PowerPoint	Short, mid-term and final exams
5	1	Degree of sedation , Indications for pharmacological behavior management technique, Pre-treatment documentation and assessment,	Pharmacologic management of patient behavior	Theoretical Lecture using PowerPoint	Short, mid-term and final exams
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	Theoretical lecture using PowerPoint	Short, mid-term and final exams
7	1	How to manage traumatic dental injuries, how to take history	management of traumatic injuries to the teeth and supporting tissues of children,	Theoretical lecture PowerPoint	Short, mid-term and final exams

8	1	Methods used for clinical examination of dental trauma and classification of dental trauma	Classification of injuries to the anterior teeth of children. methods of clinical examination	Theoretical lecture using PowerPoint	Short, mid-term and final exams
9	1	Traumatic injuries of the primary teeth its effect on and permanent teeth	Traumatic injuries of the primary teeth and its effect on permanent teeth	Theoretical lecture using PowerPoint	Short, mid-term and final exams
10	1	Treatment of injury of permanent teeth, emergency treatment , temporary restoration of fractured teeth	Treatment of injury of permanent teeth, emergency treatment , temporary restoration of fractured teeth	Theoretical lecture using PowerPoint	Short, mid-term and final exams
11	1	Advances in diagnostic aids , Advances in cavity preparation methods	Advances in Pediatric Dentistry : Advances in diagnostic aids , Advances in cavity preparation methods	Theoretical lecture using PowerPoint	Short, mid-term and final exams
12	1	Recent in endodontics, recent in local anesthesia	, Advances in Pediatric Dentistry : Advances in diagnostic aids , Advances in cavity preparation methods	Theoretical lecture using PowerPoint	Short, mid-term and final exams
13	1	Recent in restorative materials , recent in surgical procedures , miscellaneous (other advances)	Advances in restorative materials , Advances in surgical procedures miscellaneous (other advances)	Theoretical lecture using PowerPoint	Short, mid-term and final exams
14	1	Acquired	Acquired	Theoretical	Short, midterm

		disturbances of oral structures	disturbances of oral structures	lecture using PowerPoint	and final exams
15	1	Developmental disturbances of oral structures	Developmental disturbances of oral structures	Theoretical lecture using PowerPoint	Short, midterm, and final exams
16	1	Introduction simple gingivitis , eruption gingivitis, acute gingival disease ; herpes simplex viral infection.	Gingivitis and periodontal disease in children:	Theoretical lecture using PowerPoint	Short, midterm, and final exams
17	1	Acute candidacies (thrush), acute bacterial infection , chronic non specific gingivitis , gingival diseases modified by systemic factors	Acute candidacies (thrush), acute bacterial infection , chronic non specific gingivitis , gingival diseases modified by systemic factors	Theoretical lecture using PowerPoint	Short, midterm, and final exams
18	1	Gingival lesions of genetic origin , ascorbic acid deficiency gingivitis	Gingival lesions of genetic origin , ascorbic acid deficiency gingivitis	Theoretical lecture using PowerPoint	Short, midterm, and final exams
19	1	Periodontal diseases in children, early onset periodontitis , prepubertal periodontitis , localized juvenile periodontitis	Periodontal diseases in children, early onset periodontitis , prepubertal periodontitis , localized juvenile periodontitis	Theoretical lecture using PowerPoint	Short, midterm, and final exams
20	1	Papillon–Lefevere syndrome , gingival recession , extrinsic stains and deposits on teeth	Papillon–Lefevere syndrome , gingival recession , extrinsic stains and deposits on teeth	Theoretical lecture using PowerPoint	Short, midterm, and final exams
21	1	Management of space problems , planning for space	Management of space problems , planning for space	Theoretical lecture using PowerPoint	Short, midterm, and final exams

		maintenance , loss of primary incisors	maintenance , loss of primary incisors		
22	1	Space Maintenance for the First and Second Primary Molar and the Primary Canine Area , premature loss of second primary molar	Space Maintenance for the First and Second Primary Molar and the Primary Canine Area , premature loss of second primary molar	Theoretical lecture using PowerPoint	Short, midterm, and final exams
23	1	Loss of the Second Primary Molar Before eruption of the First Permanent Molar, Areas of Multiple Primary Molar Loss	Loss of the Second Primary Molar Before eruption of the First Permanent Molar, Areas of Multiple Primary Molar Loss	Theoretical lecture using PowerPoint	Short, midterm, and final exams
24	1	deciduous phase , mixed dentition phase.	Development of dental arch and occlusion;	Theoretical lecture using PowerPoint	Short, midterm, and final exams
25	1	Nance analysis , Moyers mixed dentition analysis, Tanaka and Johnston analysis, Bolton analysis.	Arch length analysis;	Theoretical lecture using PowerPoint	Short, midterm, and final exams
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	Theoretical lecture using PowerPoint	Short, midterm, and final exams
27	1	How to manage Children with special care needs in the dental clinic	Mental disability , Down syndrome , Intellectual Disability, Learning disability	Theoretical lecture using PowerPoint	Short, midterm, and final exams
28	1	How to manage	Fragile X	Theoretical	Short, midterm,

		Children with special care needs in the dental clinic	syndrome , palsy, cerebral autism,	lecture using PowerPoint	and final exams
29	1	How to manage Children with special care needs in the dental clinic	Respiratory diseases, hearing loss, visual impairment , epilepsy	Theoretical lecture using PowerPoint	Short, midterm, and final exams
30	1	How to manage Children with special care needs in the dental clinic	Heart disease , hemophilia , ,sickle cell anemia, viral hepatitis, AIDS , children with systemic diseases	Theoretical lecture using PowerPoint	Short, midterm, and final exams

1. Course Evaluation	
Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, monthly, or written exams, reports .... etc	
2. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	McDONALD AND AVERY'S DENTISTRY for CHILD and ADOLESCENT 2016 by Elsevier Pediatric Dentistry Damile 3rd ed. 2009 Text book of pediatric dentistry Nikhil Marwa 2nd ed. 2009 New Delh Hand book of pediatric dentistry (Cameron) mosby/third edition/2008 Principles and practice of pedodontics /Arathi Ra Jaypee/second edition2008 Paediatric Dentistry/ Richard Welbury/ Fourth edition Oxford University Press, 2012
Main references (sources)	McDONALD AND AVERY'S DENTISTRY) fo CHILD and ADOLESCENT 2016 by Elsevier
Recommended books and references (scientific journals, reports...)	Additional requirements such as Community-based facilities (Include for example, guest Lectures, internship, field studies) -Trying to spread awareness among school studen through field visits and lecturing educational -summer training
Electronic References, Websites	www.ajodo.org, PubMed

Course Description Form (Practical)

83.Course Name:
pedodontics
84.Course Code:
529 PE
85.Semester / Year:
Two semester /5th stage
86.Description Preparation Date:
26-10-2025
87.Available Attendance Forms:
Weekly
88.Number of Credit Hours (Total) / Number of Units (Total)
37.5 clinical
89.Course administrator's name (mention all, if more than one name)
Name: zainab abd alrudha aldahan Email: Zainab.aldahan@uruk.edu.iq mona hashim Muna.hashim@uruk.edu.iq
90.Course Objectives

Course Objectives Skill Objectives for the Course 1. To train students on pediatric dental conditions 2. To provide guidance on how to interact with children 3. To acquire skills for diagnosing primary a permanent teeth in children	• ..... • ..... • .....

91.Teaching and Learning Strategies

Strategy	1. Evaluating student performance in relevant courses. 2. Evaluating student interactions with patients, faculty, and clinical staff is part of the ongoing assessment in clinical rotations.

. Course Structure

Week	**Hours**	**Required Learning Outcomes**	**Unit or subject name**	**Learning method**	**Evaluation method**
1-30 weeks	37.5	1. Evaluating student performance in relevant courses. 2. Evaluating student interactions with patients, faculty, and clinical staff is part of the ongoing assessment in clinical rotations.	pedodontics clinics	Teaching and promoting how to deal with and interact with patients and clinical staff in courses	1. Evaluating student performance in relevant courses. 2. Evaluating student interactions with patients, faculty, and clinical staff is part of the ongoing assessment in clinical rotations. 3. Continuous monitoring of

					professional attitudes and adherence to college rules and regulations.

3. 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	
4. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	McDONALD AND AVERY'S DENTISTRY for CHILD and ADOLESCENT 2016 by Elsevier
Main references (sources)	Pediatric Dentistry Damile 3rd ed. 2009 Text book of pediatric dentistry Nikhil Marwa 2nd ed. 2009 New Delh
Recommended books and references (scientific journals, reports...)	Additional requirements such as Community-based facilities (Include for example, guest Lectures, internship, field studies) -Trying to spread awareness among school students through field visits and lecturing educational-summer training
Electronic References, Websites	www.ajodo.org, PubMed

Course Description Form (Practical)

95.Course Name: ORAL MEDICINE
96.Course Code: 529OM
97.Semester / Year: 2025 2026
98.Description Preparation Date: 25 10 2025
17 Available Attendance Forms: PAPERS
Number of Credit Hours (Total) / Number of Units (Total) THEORY 3(PRACTICAL 75H
18 Course administrator's name (mention all, if more than one name)
Name: LECTURAL AHMED ADIL PHD ORAL MEDICINE ASIST LECTURAL YASIR MOHAMED MSC ORAL MEDICINE Email: ahmedadel@uruk.e yassirmohamed @uruk.edu.iq
19 COURSE OBJECTIVES

Course Objectives	**Study oral tissue diseses** **Study T M J disese Study relations between d diseases and medical investigations** • ..... • ..... • .....
20 Teaching and Learning Strategies	
Strategy	Graduating dentists with good experience in oral diseases Good back ground and knowlegment in oral diseases nd its relation w other parts of body Scientific knowlegment in prescribing and using drugs with gc communications with patients

21 Course Structure					
Week	**Hours**	**Required Learning Outcomes**	**Unit or subject name**	**Learning method**	**Evaluation method**
1	4		Labratory investigations	Practical	Dailyandmontl exams
2	4		Viral infections	Practical	Daily monthly exams
3	4		Bacterial infection	Practical	Daily a monthly exams
4	4		Fungal infection	Practical	Daily monthly exams
5	4		Respiratory disease	practical	Daily a monthly exam
6	4		Cardiac and blo vessels disease	practical	Daily a monthly exams
7	4		Diegestive syst diseses	practical	Daily a monthly exam
8	4		Anemea		Dailyand
9	4			practical	monthly exam
10	4		leukemia	practical	Dailyand monthlyexam
11	4		bleedingand clotti diseases	practical	Dailyand monthlyexam
12	4		autoimunedisese thyroidgland diseas	practical	Dailyand monthlyexm
13	4		diabetes	practical	dailyand monthlyexam
14	4		oro facial pain	practical	dailyand monthlyexam
15	4		neuro muscular diseases	practical	dailyand monthlyexam
16	4		T M J	practical	daily a monthlyexam
17	4		Salivary glands Diseases	practical	daily a monthlyexam
18	4		Drugs in dentistry	practical	daily a monthlyexam
19	4		Lichnoied dı reaction	practical	daily a monthlyexam
	4		Pnaramic x ray	practical	daily a

20					monthlyexam
	4		Allergy	practical	daily
21					monthlyexam
	4		Ulcerative vesicu	practical	dailynd montl
22			boulous lessions		exam
	4		White red lesion	practical	daily a
23					monthlyexam
	4		Pigmentation	practical	daily monthly
24					exam
	4		Benign tumors of	practical	daily monthly
25			Oral cavity and		exam
	4		Jaws	practical	daily monthly
26			Oro pharangeal		exam
			Cancer		
	4		Laser indentistry	practical	daily monthly
27					exam
	4		Geriatric oral	practical	daily monthly
28			Medicine		exam
	4		Pediatric oral	practical	daily monthly
29			medicine		exam
	4			practical	daily monthly
30					exam

22 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
15% mid written exam
25% first and second trimester
20% final practical exam
40% written final exam

23 Learning and Teaching Resources

Required textbooks (curricular books, if any)	Burket's oral medicine 20th ed. • TMJ disorders and orofa pain
Main references (sources)	
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	

Course Description Form (Theoretical)

1. Course Name : preventive dentistry

Course Code: *531PD*

2. Semester / Year: 2025-2026

3. Description Preparation Date: 2025

4. Available Attendance Forms: theoretical lectures +clinical training

5. Number of Credit Hours (Total) / Number of Units (Total):

30 Hours, 2 Units [theoretical]+ 37.5 hours, 1.25 Units [Practical]

6. Course administrator's name (mention all, if more than one name)

Assist. Prof. Dr. Baydaa Ahmed Yas
drbaydaaumusama@gmail.com

7. Course Objectives

Course Objectives	To introduce the importance of preventive dentistry and applications for individuals and society in particular There are widespread diseases such as tooth decay and gum disease well as related diseases Nutrition and immune factors against eye and dental diseases**.....**

8. Teaching and Learning Strategies

Strategy	1. Formulating the information in a way that enables students to understand increase their knowledge It concerns the diagnosis and treatment of various diseases such as tooth decay 2. Providing instructions for dental care and health awareness to prevent tooth decay And gum diseases 3. Providing special instructions and preventive programs for oral and dental health the elderly and people with disabilities Special needs of adults

9. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	1	Introduction preventive dentistry and level prevention	Preventive dentistry (introduction) What is preventive dentistry? Prevention is better than a cure Is preventive dentistry still needed?	Theoretical lecture using the program PowerPoint PowerPo	Exams short , and Quarterly , and half year Final

			Levels of prevention Caries prevention: how far it had come in		
2	1	It begins to appear in dental tissue	Dental caries development Etiology of dental caries Inorganic and organic components of tooth Terminology of dental caries Dynamics Process of De-/Remineralization The development of a carious lesion Root caries Clinical appearance of root caries Classification of root caries	Theoretical lecture using the program PowerPoint PowerPoi	Exams short , and Quarterly , and half year Final
3	1	For fluoride in the environment, fluoride Metabolism	Diagnosis of dental caries Detection systems of caries visual and tactile examinations Radiographic techniques Electrical current measurement (electronic resistant method) Fiber Optic Transillumination (FOTI and DiFOTI) (Enhanced visual techniques) Fluorescent techniques Other techniques like Dyes, Ultrasound techniques, Photo-thermal Radiometry	Theoretical lecture using the program PowerPoint PowerPoi	Exams short , and Quarterly , and half year Final

			(PTR).		
4	1	Fluoride in Dentistry	Fluoride in Dentistry Fluoride and Dental Caries. Fluoride in Environment. Fluoride Metabolism: Absorption of fluoride. Distribution of Fluoride in the Body. Fluoride Excretion	Theoretical lecture using the program PowerPoint PowerPoi	Exams short , and Quarterly , and half year Final
5	1	Systemic fluoridation (history)	Systemic fluoridation (history) Dental Fluorosis. Clinical Appearance and classification of dental fluorosis. Pathogenesis of dental fluorosis. Treatment of Dental Fluorosis. Incipient Caries and Fluorosis Diagnosis.	Theoretical lecture using the program PowerPoint PowerPoi	Exams short , and Quarterly , and half year Final
6	1	Communal water fluoridation	Communal water fluoridation Communal water Artificial Fluoridation Artificial water fluoridation level Advantages and disadvantage of water fluoridation. Systemic effect of fluoride Fluoride compound used in water fluoridation Medical aspect of Water Fluoridation School Water		

			Fluoridation		
7	1	Fluoride supplements	Fluoride supplements Fluoride Supplements. Instruction to use fluoride supplement (tablet or lozenges or drop) Fluoridated salt Fluoridated milk	Theoretical lecture using the program PowerPoint PowerPoi	Exams short , and Quarterly , and half year Final
8	1	Topical fluoridation	Topical fluoridation Advantages & Disadvantages of topical fluoride. Mechanisms of Fluoride Action. Fluoride's effect on tooth mineral. Inhibition of Bacterial Enzyme System. Classification of Topical Fluoride. Fluoride Compounds.	Theoretical lecture using the program PowerPoint PowerPoi	Exams short , and Quarterly , and half year Final
9	1	Self-applied fluoride	Self-applied fluoride Requisites for self-applied fluoride agents. Fluoride Dentifrices. Fluoride Mouth rinses. Fluoride Gel. Fluoride exposure from multiple sources. Fluoride and Tooth erosion	Theoretical lecture using the program PowerPoint PowerPoi	Exams short , and Quarterly , and half year Final
1 0	1	Professionally applied fluoride	Professionally applied fluoride Indication of Topical fluoride applications	Theoretical lecture using the program PowerPoint PowerPoi	Exams short , and Quarterly , and half year Final

			Types of professionally applied fluorides: Aqueous Solutions Fluoride Gels. Fluoride Varnishes. Fluoride Prophylactic Paste. Restorative Materials Containing Fluoride Fluoride Containing Devices (Slow Release).		
11	1	Toxicity of fluoride	Toxicity of fluoride Fluoride toxicity:definition Sources of excess systemic fluoride Acute toxicity General factors affecting acute toxicity Clinical signs, diagnosis Emergency treatment Chronic Fluoride Exposure (toxicity) Non-dental clinical signs Medical management of chronic fluoride toxicity Home Security of Fluoride Products Recommendations to avoid toxicity	Theoretical lecture using the program PowerPoint PowerPoi	Exams short , and Quarterly , and half year Final
12	1	Microbiology of caries	Microbiology of caries Microbial ecology in the oral cavity	Theoretical lecture using the program PowerPoint PowerPoi	Exams short , and Quarterly , and half year

			Acquisition of the resident oral microflora Site distribution of oral bacteria Ecological factors affecting the growth and metabolism of oral bacteria Dental biofilms: development, structure, composition and properties Development of dental biofilms Pellicle formation Microbial colonization Initial microbial colonization Microbial succession Microbial composition of the climax community (mature biofilm)		Final
13	1	Cariogenic potential of bacteria	Cariogenic potential of bacteria Virulence of microorganisms Major dental caries-associated bacteria *Mutans streptococci* *Lactobacilli* *Actinomyces* *Veillonella* Other caries-associated bacteria	Theoretical lecture using the program PowerPoint PowerPoi	Exams short , and Quarterly , and half year Final
14	1	Fissure sealsn	Dental sealants definition History indication and		

			contraindication sealant in adult Ideal sealants materials Requisites for Sealant Retention Sealant Placement Guidelines Fluoride-Releasing Sealants Glass ionomer sealants Colored Versus Clear Sealants Sealants for proximal enamel surfaces		
15	1	New approach in restorative dentistry	New approach in restorative dentistry Minimally Invasive Treatment Technique Minimally Invasive Cavity Preparation Non-machinery Preparation LASER Chemo mechanical Caries Remova	Theoretical lecture using the program PowerPoint PowerPoi	Exams short , and Quarterly , and half year Final
16	1	Diet and dental caries	Diet and dental caries Role of carbohydrates in caries development Evidences Factors affecting food cariogenicity Physical form of food and clearance time Types of fermentable carbohydrate The basic Stephan curve Frequency of	Theoretical lecture using the program PowerPoint PowerPoi	Exams short , and Quarterly , and half year Final

			intake sugar and dental caries		
17	1	Non- sugar sweeteners	Non- sugar sweeteners The sweetness of sugars Non- sugar sweeteners Bulk sweeteners Intense sweeteners Protective factors in food Fruit and dental caries Testing food cariogenicity	Theoretical lecture using the program PowerPoint PowerPoi	Exams short , and Quarterly , and half year Final
18	1	Dietary counseling dental practi	Dietary counseling in dental practice Nutritional status assessment Body Mass Index Assessment of dietary intake Objectives of dietary assessment 24-hour recall Dietary record Food frequency questionnaires Evaluation of cariogenic potentiall Evaluation of nutritive value Dietary counseling Approach to counseling	Theoretical lecture using the program PowerPoint PowerPoi	Exams short , and Quarterly , and half year Final
19	1	Nutrition and oral health	Nutrition and oral health Nutrition dental caries Systemic effect Morphology of the teeth		

			The quality of the hard tissues Quality of saliva Evidences of the effect of some nutrients on dental caries Nutrition and eruption of teeth		
20	1	Nutrition, diet & periodontal disease	Nutrition, diet & periodontal disease Nutrition and periodontal health The mechanisms by which nutrition may affect periodontal disease Effect of food texture on periodontal health Nutrition and oral mucosal disease	Theoretical lecture using the program PowerPoint PowerPoi	Exams short , and Quarterly , and half year Final
21	1	Saliva and dental caries	Saliva and dental caries Oral fluid Function of saliva Composition of saliva Factors influencing salivary composition Salivary flow rate Factors influencing salivary flow rate Influence of saliva on dental caries	Theoretical lecture using the program PowerPoint PowerPoi	Exams short , and Quarterly , and half year Final
22		Oral immune system	Oral immune system Immunity Non-specific immune factors Specific immune factors Immunization of		

			dental caries Vaccination		
23		Oral hygi measures(Mec nical)	Oral hygiene measures(Mechanical) Acquired pellicle Dental plaque Dental calculus Mechanical plaque control aids Toothbrushes Tooth brushing methods Powered toothbrush Objectives of toothbrushing Interdental Cleaning aid		
24		Oral hygiene measures (Chemical)	Oral hygiene measures (Chemical)		
25		High r group	Identification of high risk group of dental caries		
26		Dental health of disabled and medically compromised patients	Dental health of disabled and medically compromised patients		
27		Geriatric dentistry	Geriatric dentistry Aging Geriatric dentistry Prevention of elderly segment of population The major results of aging process Changes of tooth structure Root caries		
28		Health education	Health education and		

		and motivation	motivation Objectives of health education Principles of health education Communication Health education planning Steps of learning		
29		Laser dentistry	Uses of LASER in dentistry		
30		Prevention peri-implant disease	Prevention of peri-implant disease		

10.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 Course Evaluation
Distribution of the grade out of 100 according to:
1
15% First and second semester
15% Midterm exam
60% Final Exam
100% Total

11.Learning and Teaching Resources

Required textbooks (curricular books, if any)	Primary Preventive Dentistry by Harris NO Garcia GodoyF-NatheCN 8th Ed. (20014) Comprehensive preventive dentistry (2012) Edited by Hardy Limeback
Main references (sources)	Dental Caries Principles and Management 2016 by Zhou Xuedong Springer-Verlag Berlin Heidelberg Dental caries, the disease and clinical management Ole fejerslkov and Edwina kidd., 2nd edition , black well, 2008
Recommended books and references (scientific journals, reports...)	Google Scholar, ResearchGate, ORCID
Electronic References, Websites	internet sites

Course description (Practical)

Ealuation method	Learning method	Title	Hours	
Daily &final exams	Practical	Diagnosis and treatment planning	2.5	
Daily &final exams	Practical	Clinical ,Preliminary medical and dental history examination , Radio graphic examination		
Daily &final exams	Practical	Demonstration and use of Primary prevention program by removal of dental plaque and calculus and application of fluoride and fissure sealants		
Daily &final exams	Practical	Monitoring of developing dentition and recognition and prevention (through use of space maintainers) or interception of any occurrence of malocclusion		

Daily &final exams	Practical	Caries removal and restoration of primary and young developing permanent dentition with variety of restorative materials		
Daily &final exams	Practical	Trauma management in anterior teeth		
Daily &final exams	Practical	Minimal intervention dentistry by removal of dental decay and choice of suitable restorative material		
Daily &final exams	Practical	Pulp therapy for primary dentition		

Daily &final exams	Practical	Management of simple cases of dental anomalies and other developmental defects			
Daily &final exams	Practical	Maintenance of pulp vitality by use			
Daily &final exams	Practical	Extraction for non restorable primary and permanent teeth or over-retained primary dentition and permanent teeth for space creation for orthodontic treatment			
Daily &final exams	Practical	Management of molar incisor hypomineralization MIH			
Daily &final exams	Practical	Behavior management for young patients			
Daily &final exams	Practical	Infection control re-assurance and guidance of students			
Daily &final exams	Practical	Tooth colored restoration technique			
Daily &final exams	Practical	Radiographic prescription and interpretation of results			

Course Description Form (Theoretical)

1. Course Name :Dental Ethics

2. Course Code: **050311**

3. Semester / Year: 2025-2026

4. Description Preparation Date: 2025

5. Available Attendance Forms: theoretical lectures

6. Number of Credit Hours (Total) / Number of Units (Total): 30 Hours, 2 Units

7. Course administrator's name (mention all, if more than one name)

Name: Assist. Lec.Yassir Basim
Email: Yasir.basim.abid@uruk.edu.iq

8. Course Objectives

Course Objectives	Dental ethics focuses on the ethical principles and professional standards that guide the practice of dent Topics covered may include patient autonomy, informed consent, confidentiality, and the phys relationship Patient teeth, legal responsibilities, and ethical issues in patient care, treatment planning, and public hea This course examines ethical dilemmas and decision making in dentistry, with the goal of prep students to handle complex situations with integrity and professionalism .....

9. Teaching and Learning Strategies

Strategy	Lectures , e-learning

. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	1	Professional Ethics Review	What is meant by "ethics? Why are ethics important? Evolution and philosophy of ethics The terms moral and ethical, obligation and principle	Theoretical lecture using the program PowerPoint PowerPo	Exams short , and Quarterly , and half year Final
2	1	Professional Ethics Review	Dental ethics, professionalism, Human Rights and Law What is a "profession?" What is a "professional?" What is "professionalism?" Dentistry as a		

			Profession Dentistry: The Commercial Picture Dentistry: The Normative Picture The Content of Professional Obligations		
3	1	Professional Ethics Review	What is meant by the “best interests” of our patients? What is “paternalism?” Is good risk management good ethics? What about compromising quality?	Theoretical lecture using the program PowerPoint PowerPoi	Exams short , and Quarterly , and half year Final
4	1	Professional Ethics Review	What are codes of ethics? Should I care more about being legal or being ethical? Do we really have obligations to patients? Can dentistry be both a business and a profession?	Theoretical lecture using the program PowerPoint PowerPoi	Exams short , and Quarterly , and half year Final
5	1	Principal Features of Dental Ethics	What’s special about Dentistry? What’s special about dental ethics? Who decides what is ethical? Does dental ethics change? 187 Does dental ethics differ from one country to another?	Theoretical lecture using the program PowerPoint PowerPoi	Exams short , and Quarterly , and half year Final
6	1	Principal Features of Dental Ethics	Principal Features of Dental Ethics		
7&8	1	Ethical Law and ethical Theories	History and basic ethical theory History of medical ethics Hammurabi’s code of law ippocratic oath Basic grounding of	Theoretical lecture using the program PowerPoint PowerPoi	Exams short , and Quarterly , and half year Final

			Ethics Humanities (universalstandards) Religious& nonreligious: Political& dogmatic strategies of the state Other groundings of Ethics (theories of ethics): 1- Action theory: 2- Consequentiality theory: 3- Value theory (why theory): Ethics and the law Sources of Ethical Views and Convictions		
9&10	1	Fundamental Principles of dental ethics	1- Patient autonomy 2- Non-maleficence 3- Beneficence 4- Justice 5- Veracity	Theoretical lecture using the program PowerPoint PowerPoi	Exams short , and Quarterly , and half year Final
11&12	1	Duties and obligation of dentists	The Ideal Relationship between Dentist and Patient Duties and obligation of dentists Toward their patients THE DENTIST-PATIENT RELATIONSHIP FOUR MODELS OF THE DENTIST-PATIENT RELATIONSHIP The Guild Model The Agent Model The Commercial Model The Interactive Model	Theoretical lecture using the program PowerPoint PowerPoi	Exams short , and Quarterly , and half year Final
13&14	1	Duties and obligation of dentists	Duties and obligation of dentists Toward the public and the paramedical profession **The Relationship between Dentistry and the Larger**	Theoretical lecture using the program PowerPoint PowerPoi	Exams short , and Quarterly , and half year Final

			Community		
15	1	Duties and obligation of dentists	Duties of dental surgeons and specialists in consultations	Theoretical lecture using the program PowerPoint PowerPoi	Exams short , and Quarterly , and half year Final
16	1	Duties and obligation of dentists	Responsibilities of dental surgeons to one another Ideal Relationships between Co professionals	Theoretical lecture using the program PowerPoint PowerPoi	Exams short , and Quarterly , and half year Final
17	1	Ethical issues and challenges in dental practice	Ethical Issues in Dental Practice Ethical Questions and Legal Questions Choosing to Re Ethical Published Codes of Conduct and Ethics Committees Examples of ethical issues and Challenges 1- Access to dental care 2- Abuse of prescriptions by patients 3- Advertising 4- Emergency care 5- Financial arrangements 6- Disclosure and misrepresentation 7- Child abuse	Theoretical lecture using the program PowerPoint PowerPoi	Exams short , and Quarterly , and half year Final
18&19	1	Ethical issues and challenges in dental practice	8- Competence and judgment 9- Confidentiality 10- Dating patients 11- Delegation of duties 12- Digital communication and social media 13- Harassment 14- Consent		
20	1	Ethical issues and challenges	**Patients with Compromised Capacity**	Theoretical lecture using the program PowerPoint	Exams short , and Quarterly , and half

		in dental practice	Treatment Decisionsfor Patients with Compromised Capacity The Role of Parents and Legal Guardians The Capacity for Autonomous Decision Making Dealing with Patients with Partially Compromised Capacity	PowerPoi	year Final
21	1	The impact of business on dentistry	Conflict of interest - Personal interest versus patient interest - Public versus patient interest - Third-party interests - Professional versus business ethics	Theoretical lecture using the program PowerPoint PowerPoi	Exams short , and Quarterly , and half year Final
22	1	Ethics and dental research	Importance of Dental Research - Research in Dental Practice - Ethical Requirements - Ethics Review Committee Approval	Theoretical lecture using the program PowerPoint PowerPoi	Exams short , and Quarterly , and half year Final
23&24	1	Ethics and dental research	Scientific Merit - Social Value - Risks and Benefits - Informed Consent - Confidentiality - Conflict of Roles - Honest Reporting of Result	Theoretical lecture using the program PowerPoint PowerPoi	Exams short , and Quarterly , and half year Final
26&25	1	The standard of care	Who determines how a dentist should behave? -A local or a global standard of care? -Transparency of care, guidelines, and protocols. -Shared decision-making, evidence informed decision-making, and evidence-guideddecision-making. -Individualization and the standard of care based on a long-term goal for dental		

			treatment.		
27	1	Ethical Decision Making and Conflicting Obligations	Difficult Professional-Ethical Judgments A Model of Professional-Ethical Decision Making Conflicting Professional Obligations Conflicts Between Professional and Other Obligations Conscientious Disobedience of Professional Obligations	Theoretical lecture using the program PowerPoint PowerPoi	Exams short , and Quarterly , and half year Final
28	1	Studying a Profession's Central Values	The Central Values of Dental Practice The Patient's Life and General Health The Patient's Oral Health The Patient's Autonomy The Dentist's Preferred Patterns of Practice Aesthetic Values Efficiency in the Use of Resources Ranking Dentistry's Central Values Thinking about the Case	Theoretical lecture using the program PowerPoint PowerPoi	Exams short , and Quarterly , and half year Final

1.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 Course Evaluation
Distribution of the grade out of 100 according to:
1
15% First and second semester
15% Midterm exam
60% Final Exam
100% Total

2.Learning and Teaching Resources

Required textbooks (curricular books, if any)	The Dental Ethics Guide, The Dental Eth Manual
Main references (sources)	Reading recent research in reputable journ

	recommended supporting books references
Recommended books and references (scientific journals, reports...)	Google Scholar, ResearchGate, ORC
Electronic References, Websites	internet sites