



وزارة التعليم العالي
والبحث العلمي

Ministry of Higher Education & Scientific Research



Academic Program Description College of Dentistry-Uruk University

2024-2025

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: 25-6-2025

File Completion Date:

Signature:

Head of Department Name:

prof. Dr. Ammar A. Ali

Date: 29-6-2025

Signature:

Scientific Associate Name:

Dr. Ahmed Adel Othman

Date: 29-6-2025

The file is checked by: Assist. Prof. Dr. Baydan Ahmed Yas

Department of Quality Assurance and University Performance

Director of the Quality Assurance and University Performance Department:

Date: 25-6-2025

Signature:

Approval of the Dean

prof. Dr. Ammar A. Ali

1. Program Vision

Leadership in education and scientific research at the national and global levels, keeping pace with modern technologies, artificial intelligence, and the quality of oral and dental health care.

2. Program Mission

The College of Dentistry believes that oral health is an integral part of public health and seeks to improve the quality of life in society through its advanced educational programs and harnessing artificial intelligence skills and seeks to graduate a new generation of inspiring dentists who possess high professional ethics.

3. Program Objectives

1. Providing distinguished educational programs that ensure the development of students with high skills and strong professional ethics.
2. Supporting scientific research and innovation to develop treatments and technologies used in the field of dentistry, in addition to providing high-quality health care to patients.
3. Enhancing the effectiveness of the educational process by using modern technology, represented by artificial intelligence and software for diagnosis and treatment, and achieving sustainable development concepts.
4. Promoting communication and understanding between students and community members from different cultures and adhering to the values of social justice and equality.

4. The Program Accreditation

N/A

5. Other External Influences

N/A

6. Program Structure

Course Structure	Number of Courses	Credit Units	(%)	Reviews
Institutional Requirements	4	8	3.7	primary
College Requirements	43	210.5	96.3	Primary
Department Requirements				
Summer Training	14	78		primary
Other				

7. Program Description

Year / Level	Course Code	Course Name	Credit Hours	
			Theoretical	Practical
1 st	050102	Biology	2	2
	050103	Medical Physics	2	2
	050104	Medical Chemistry	2	2
	050106	Computer Science	1	2
	050107	Arabic Language	2	none
	050108	English Language	2	None
	050109	human rights	2	None
	050101	Dental Anatomy	4	2
2 nd	050206	General human anatomy	1	2
	050204	General histology	2	2
	050205	General Physiology	2	2
	050207	Biochemistry	2	2
	050208	Baath Party Crimes	2	none
	050201	Prosthetic Dentistry	2	4
	050202	Dental Material	2	2
3 rd	050303	Oral surgery	1	2
	050305	Pharmacology science	2	2
	050306	General pathology	2	2
	050307	Medical Microbiology	2	2
	050301	Prosthetic Dentistry	2	2
	050302	Conservative Dentistry	4	4
	050304	Community Dentistry	2	2
	050308	Radiology	2	2
4 th	050403	Oral surgery	1	4
	050408	General surgery	1	2.5
	050404	Periodontics	1	3

5 th	050406	Oral pathology	2	3
	050407	General Medicine	2	2
	050401	Prosthetic Dentistry	2	6
	050402	Conservative Dentistry	2	6
	050405	Orthodontics	2	5
	050409	Pediatric Dentistry	2	None
	050503	Oral surgery	1	6
	050507	Periodontics	1	3
	050509	Graduation Project	2	None
5 th	050501	Prosthetic Dentistry	2	6
	050502	Oral medicine	2	2.5
	050504	Orthodontics	2	4
	050505	Pediatric Dentistry	2	1.25
	050506	Preventive Dentistry	2	1.25
	050508	Conservative Dentistry	2	6

8. Expected learning outcomes of the program

→ Knowledge

Outcome Learning 1	Understanding the anatomical structure of the skeletal framework of the head and skull.
Outcome Learning 2	Understanding the anatomy of soft tissues (muscles, nerves, and blood vessels) of the head and neck.
Outcome Learning 3	Understanding the principles of oral surgery and local anesthesia. Understanding general diseases and their impact on oral surgery, methods of dealing with them, and familiarizing with general surgical principles and emergency procedures. Understanding gum diseases and their surgical and non-surgical treatment methods.
Outcome Learning 4	Understanding facial and jaw diseases and injuries, methods of treatment, tooth extraction, dental implants, and minor surgical procedures an understanding oral diseases
Outcome Learning 5	Formulating information in a way that enables students to understand and comprehend it. Increasing students' knowledge of oral examination and treatment methods. Empowering students to recognize and make diagnostic judgments on cases associated with removable and fixed prosthetic appliances and their clinical treatment methods. Empowering students to treat all age groups, including children and the elderly.

→ Outcome Learning 5

Outcome Learning 6	Familiarity with the anatomy of the head and neck (both skeletal and soft tissues).
Outcome Learning 2	Understanding the principles of oral surgery and local anesthesia.
Outcome Learning 3	Ability to diagnose gum diseases and conditions surrounding the teeth and provide treatment and diagnosing other oral diseases and their treatment.
Outcome Learning 4	Capability to safely perform tooth extractions and minor surgical procedures in the mouth, as well as familiarity with dental implant techniques.
Outcome Learning 5	Understanding general surgical fundamentals and managing emergency cases. Acquiring experience and information that will help in identifying the disease and knowing its causes

Enabling students to acquire the skills of making appropriate decisions for disease cases
Methods of examining and treating tooth decay and endodontic treatments for children and adults
Enabling students to make fixed and removable dental prosthetics .

→ Values

Outcome Learning 1	Emphasizing ethics in patient interactions.
Outcome Learning 2	Emphasizing ethics in student interactions with their peers.

9. Teaching and Learning Strategies

A- Knowledge and Understanding:

1. Empowering students to acquire and comprehend the fundamental principles of anatomy, oral surgery, and gum diseases.
2. Equipping students with the ability to document patients' general medical history.
3. Enabling students to possess self-learning skills to acquire new information and expertise within the field.
4. Empowering students to act in response to any patient-related incidents during work.

B- Subject-specific Skills:

1. Presenting brainstorming questions that enable students to link study materials together and relate them to medical and health reality.
2. Developing skills in conducting motivational interviews to encourage patients to adopt preventive measures, adhere to treatment, and follow post-operative instructions.

C- Thinking Skills:

1. Encouraging students through expressive communication, thinking speed, and responsiveness.
2. Prompting students to problem-solving and fostering distinctive thinking.
3. Engaging lectures through student interaction and brainstorming.
4. Discussing medical cases and how to handle them.

D- General and Transferable Skills (Other skills related to employability and personal development):

1. Professional preparation and urging students toward positive behavior in their personal lives.
2. Scientific preparation and encouraging students to communicate in other scientific fields.
3. Cultural preparation and refining students' personalities.
4. Employing acquired skills to enable students to become dentists capable of performing various minor surgeries.

E- Teaching and Learning Methods:

1. Lectures using data show and PowerPoint presentations.
2. Educational films.

3. Display screens.
4. E-learning.
5. Whiteboards.
6. Student group discussions.
7. Patient reception and treatment in clinics.

10. Evaluation Methods

1. Daily quizzes for theoretical subjects.
2. Oral questions.
3. Midterm examination.
4. Final examination.

10. Faculty

Faculty Members

Academic Rank	Specialization		Special Requirements/Skills (if applicable)	Number of the teaching staff	
	General	Special		Staff	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. Kadhim Jawad Hano	B.D.S. oral & maxillofacial surgery	M.Sc. in periodontology		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. Ahlam H. Majeed	B.D.S. oral & maxillofacial surgery	M.Sc. in oral pathology		Staff	
Prof. Dr. Hanan A.A. Kalaf	B.D.S. oral & maxillofacial surgery	Ph.D. in prosthodontics		Staff	

Prof. Dr. Abd Al-Kareem A. Ali	B.D.S. oral & maxillofacial surgery	Ph.D. in periodontology		Staff	
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	
Lecturer Sundus A. Ali	B.D.S. oral & maxillofacial surgery	M.Sc. in oral & maxillofacial surgery		Staff	
Lec.Dr. Ahmed Adel Othman		Ph.D in oral Medicine		Staff	
Lec. Dr. Ali G.M. Mahdi	B.D.S. oral & maxillofacial surgery	Ph.D. in oral and maxillofacial surgery		Staff	
Lec.Dr. Ali Waleed Hadi	B.D.S. oral & maxillofacial surgery	Ph.D. in conservative dentistry		Staff	
Lec. Dr. Mohammed S. Majeed	B.D.S. oral & maxillofacial surgery	Ph.D. in oral and maxillofacial surgery		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. Wassan M. Hasson	B.D.S. oral & maxillofacial surgery	M.Sc. in conservative 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. Shahad A. A. Muzhir	B.D.S. oral & maxillofacial surgery	M.Sc. in periodontics		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. Mohammed Ali Hassan Mahdi	B.D.S. oral & maxillofacial surgery	M.Sc. in periodontics		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	
Thamer E. Farhood	B.D.S. oral & maxillofacial surgery	High Diploma in conservative dentistry		Staff	
Lec.Dr. Jaffar S. Makki		Ph.D. general medicine		Staff	
Lec. Dr. Khalil A . Hasson		Ph.D. general medicine		Staff	

Lec. Dr. Thanaa J. Mahdi		Ph.D. general medicine		Staff	
Lec. Dr. Thaer S. Salman		Ph.D. general medicine		Staff	
Lec. Dr. Ali Mohammed Hussain		Ph.D. general medicine		Staff	
Lec. Dr. Atheer Ali Hassan		Ph.D. general medicine		Staff	
Assist. Prof. Dr. Oruba J Tarsh		Ph.D. in medical physics		Staff	
Lec. Afnan R. Ahmed		Ph.D. in biology		Staff	
Assist. Lec. Hasaneen A. Rahmah		M.Sc. in biology		Staff	
Lec. Aliaa H. Faraj		M.Sc. in medical chemistry		Staff	
Assist. Lec. Ahmed A Mhawee		M.Sc. in medical chemistry		Staff	
Lec. Raheem S. Jaber		Ph.D. in biochemistry		Staff	
Lec. Israa S Mohamed		Ph.D in preventive dentistry		Staff	
Assist. Lec. Rasha Adel Othman		M.Sc. in oral surgery		Staff	
Assist. Lec. Meena M Ganee		M.Sc. in conservative dentistry		Staff	

Assist. Lec. Ruqayah A A Abd Al-Razaq		M.Sc. in conservative dentistry		Staff	
Assist. Lec. Hiba Murtadh Hussain		M.Sc. in pharmacology		Staff	
Assist. Lec. Adel A. A. Musah		M.Sc. in orthodontics		Staff	
Assist. Lec. Luma S Dnha		M.Sc. in orthodontics		Staff	
Awf Othman Kadhim		High diploma in conservative dentistry		Staff	
Assist. Lec. Sana F Hathertee		M.Sc. in periodontics		Staff	
Lec. Farah S Rasheed		Ph.D in oral pathology		Staff	
Assist. Lec. Rasha A A Najm		M.Sc. in oral microbiology		Staff	
Assist. Lec. Bashar M Basheer		M.Sc. in computer sciences		Staff	
Assist. Lec. Sara I Khaleel		M.Sc. in preventive dentistry		Staff	
Assist. Lec. Ali MM Jafar		M.Sc. in general histology		Staff	

Assist. Lec. Janah Z Abid Ali		M.Sc. in oral surgery		Staff	
Arwa A Abid		High diploma in orthodontics		Staff	
Assist. Lec. Manar AA Kamel		High diploma in pedodontics			Lecturer
Prof. Dr. Abdibasset A FatahAllah		Ph.D. in prosthodontics			Lecturer
Lec. Dr. Haider latif		Ph.D in general histology			Lecturer
Lec. Dr. Ahmed A Mhawsh		Ph. D. in biology			Lecturer
Assist. Lec. Hadeel I Ibrahim		M.Sc. in prosthodontics			Lecturer
Assist. Lec. Alaa H Jasim		M.Sc. in prosthodontics			Lecturer
Lec. Shamaa M Abd Al-Hameed		M.Sc. in prosthodontics			Lecturer
Lec. Dr. Samh A.A. Ali		Human Rights			Lecturer

Professional Development

Mentoring New Faculty Members

Guiding new instructors to prioritize continuous education and attending workshops and seminars within their specialization, and encouraging them to benefit from the experiences of senior instructors in all aspects related to the teaching process.

Professional Development for Faculty Members

Emphasizing the importance of continuous education and attending workshops and seminars within the specialization field to keep up with developments.

12. Acceptance Criteria

Admission will be centralized through the Ministry of Higher Education and Scientific Research, relying on the student's grades in the scientific stream of the sixth year, following the completion of the electronic application form.

13-Sources of information about the program

- 1- University or college website
- 2- university guide
- 3- Books and scientific sources

14- Program development plane

Program skills															
Learning outcomes required from the program															
values				skills				Knowledge				Primary or optional	Course title	Course code	Year/level
4C	3C	2C	1C	4B	3B	2B	1B	4A	3A	2A	1A				
✓	✓	✓	✓	✓	✓	✓	✓			✓	✓	Primary	Human Anatomy	101AN	First year
✓	✓	✓	✓	✓	✓	✓	✓			✓	✓	Primary	(Arabic Language)	102AL	
✓	✓	✓	✓	✓	✓	✓	✓			✓	✓	Primary	Computer Sciences	103CS	
		✓	✓				✓			✓	✓	Primary	Dental Anatomy	104DA	
		✓	✓			✓	✓			✓	✓	Primary	Human Rights	105HR	
✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	Primary	Medical Chemistry	106CH	

✓	✓	✓	✓			✓	✓	✓	✓	✓	✓	Primary	Medical Physics	107PS	
✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	Primary	Biology	108BL	
		✓	✓		✓	✓	✓			✓	✓	Primary	(English Language)	109EL	
		✓	✓			✓	✓		✓	✓	✓	Primary	Dental Material	209DM	Second year
✓	✓	✓	✓			✓	✓			✓	✓	Primary	Prosthodontics	210PR	
	✓	✓	✓			✓	✓		✓	✓	✓	Primary	Oral histology and Embryology	211EL 215OH	
✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	Primary	Biochemistry	212BC	
			✓			✓	✓		✓	✓	✓	Primary		213GH	

													General Histology		
		✓	✓				✓			✓	✓	Primary	General Physiology	214PH	Third year
✓	✓	✓	✓	✓	✓	✓	✓			✓	✓	Primary	Computer Sciences	203CS	
		✓	✓		✓	✓	✓			✓	✓	Primary	Oral Histology		
✓	✓	✓	✓	✓	✓	✓	✓			✓	✓	Primary	Anatomy	201AN	
		✓	✓		✓	✓	✓	✓	✓	✓	✓	Primary	Microbiology	316MB	
		✓	✓			✓	✓	✓	✓	✓	✓	Primary	Pharmacology	317PC	
	✓	✓	✓		✓	✓	✓		✓	✓	✓	Primary	Community Dentistry	318CM	

		✓	✓			✓	✓			✓	✓	Primary	Conservative dentistry	319CV	
			✓		✓	✓	✓	✓	✓	✓	✓	Primary	Dental Radiology	320RL	
			✓		✓	✓	✓		✓	✓	✓	Primary	General Pathology	321PA	
			✓		✓	✓	✓		✓	✓	✓	Primary	Oral Surgery	322OS	
✓	✓	✓	✓			✓	✓				✓	Primary	Prosthodontics	310PR	
			✓			✓	✓		✓	✓	✓	Primary	General Medicine	423GM	Fourth year
			✓			✓	✓		✓	✓	✓	Primary	General Surgery	424GS	

			✓		✓	✓	✓	✓	✓	✓	✓	Primary	Oral Surgery	422OS	
		✓	✓			✓	✓		✓	✓	✓	Primary	Conservative Dentistry	419CV	
			✓		✓	✓	✓		✓	✓	✓	Primary	Oral Pathology	425OP	
			✓				✓		✓	✓	✓	Primary	Orthodontic	426OD	
	✓	✓	✓		✓	✓	✓		✓	✓	✓	Primary	Pedodontics	427PE	
	✓	✓	✓		✓	✓	✓		✓	✓	✓	Primary	Periodontics	428PT	
✓	✓	✓	✓		✓	✓	✓		✓	✓	✓	Primary	(Prosthodontics)	410PR	
		✓	✓		✓	✓	✓	✓	✓	✓	✓	Primary	Conservative Dentistry	519CV	Fifth year
			✓		✓	✓	✓		✓	✓	✓	Primary		529OM	

													Oral Medicine		
		✓	✓	✓	✓	✓	✓			✓	✓	Primary	Oral Surgery	522OS	
✓	✓	✓	✓		✓	✓	✓		✓	✓	✓	Primary	Pedodontics	530PAPD	
		✓	✓		✓	✓	✓		✓	✓	✓	Primary	Prevention	531PD	
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Primary	Prosthodontics	510PR	
			✓			✓	✓				✓	Primary	Orthodontics	526OD	
	✓	✓	✓		✓	✓	✓		✓	✓	✓	Primary	Periodontics	528PT	

Course title description

1-Course title: General anatomy	
2-Course code: AT101	
3-Year: 2024-2025	
4-Date of course preparation: 2025/5/	
5-Attendance forms available: : Attendance in the classroom for the theoretical subject	
6 .Number of study hours (total/(number of units) (total): 30 hours/60 study units	
Practical: 60 hours/120 credits	
7 Name of the course administrator (if more than one name is mentioned)	
<div style="text-align: right; padding-right: 20px;"> Assist. Prof. Dr.Khaleel A Hasoon Khaleelawad@uruk.edu.iq Lec. Dr. Atheer alhaddad atheer.a.alhaddad@uruk.edu.iq </div>	
8-Course objectives	
Objectives of the study subjects	Scientific preparation for the student regarding human anatomy, especially what concerns the anatomy of the head and neck and its relationship to .his precise specialty as a dentist
9. Teaching and learning strategies	
Strategy	<ul style="list-style-type: none"> - Gain knowledge of human anatomy - Focus on head and neck anatomy -His relationship with his specialty as a dentist
10. Course structure	

Evaluation method	The learning method is theoretical or practical	Name of the unit or topic	Learning outcomes required	Hours	week
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Daily, monthly, semi-annual and final exams	Theoretical lecture using the program power point	<ul style="list-style-type: none"> ■ Introduction to Human Anatomy • Descriptive Anatomic Terms 	1	1
Daily, monthly, semi-annual and final exams	Theoretical lecture using the program power point	Basic Structures: Skin, Fasciae, Muscle, Joints, Ligament, Bursae	1	2
Daily, monthly, semi-annual and final exams	Theoretical lecture using the program power point	Basic Structures: Bone, Cartilage, Blood Vessels, Lymphatic System	2	4&3
Daily, monthly, semi-annual and final exams	Theoretical lecture using the program power point	Basic Structures: Nervous System, Mucous Membranes, Serous Membranes	1	5
Daily, monthly, semi-annual and final exams	Theoretical lecture using the program power point	Skeletal system of the body: Skull :Cranial Bones	2	7&6

Daily, monthly, semi-annual and final exams	Theoretical lecture using the program power point	Skeletal system of the body: Skull : Facial Bones	2	9&8
Daily, monthly, semi-annual and final exams	Theoretical lecture using the program power point	External Views of the Skull	2	&10 11
Daily, monthly, semi-annual and final exams	Theoretical lecture using the program power point	▪ The Cranial Cavity	2	&12 13
Daily, monthly, semi-annual and final exams	Theoretical lecture using the program power point	▪ Major Foramina and Fissures locations and structures pass through Neonatal Skull		
Daily, monthly, semi-annual and final exams	Theoretical lecture using the program power point	▪ Skeleton of the Orbital Region, Openings into the Orbital Cavity ▪ Skeleton of the External Nose, nasal cavity, Paranasal Sinuses	2	&14 15

		<ul style="list-style-type: none"> ▪ Auditory ossicles Hyoid bone 		
Daily, monthly, semi-annual and final exams	Theoretical lecture using the program power point	The Vertebral Column	2	&16 17
Daily, monthly, semi-annual and final exams	Theoretical lecture using the program power point	<ul style="list-style-type: none"> ▪ Structure of the Thoracic Wall ▪ Joints of the Chest Wall ▪ Suprapleural Membrane ▪ Diaphragm Surface Anatomy 	2	&18 19
Daily, monthly, semi-annual and final exams	Theoretical lecture using the program power point	Thoracic cavity: Mediastinum, Pleurae, Trachea, Bronchi, Lungs	2	&20 21

Daily, monthly, semi-annual and final exams	Theoretical lecture using the program power point	Pericardium, Heart, Large arteries, veins and nerves of thorax		3	22 23 24
Daily, monthly, semi-annual and final exams	Theoretical lecture using the program power point	<ul style="list-style-type: none"> ▪ Bones of the Shoulder (Pectoral girdle) girdles Bones of the Upper extremities 		2	25 26
Daily, monthly, semi-annual and final exams	Theoretical lecture using the program power point	<ul style="list-style-type: none"> ▪ Bones of the Pelvic girdle Bones of the Lower extremities 		2	27 28
Daily, monthly, semi-annual and final exams	Theoretical lecture using the program power point	Abdominal cavity and organs		2	29 30
11. course evaluation					
<p>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</p> <p>half the year %15</p> <p>annual course (includes summer training, daily and monthly %25 exams, and practical requirements) 25% final practical exam</p> <p>final theoretical exam %35</p>					
12. Learning and teaching resources					
1. Snell Clinical anatomy 7 th edition. 2. Netter's head and neck anatomy for dentistry 2 nd edition 2012. •			Required textbooks (methodology, if any)		

	Main references (sources)
•	Recommended supporting books and references (journals ...) Scientific reports

Laboratory sessions

No.	Title of the sessions	Hours
1	<input type="checkbox"/> Introduction to Human Anatomy <input type="checkbox"/> Descriptive Anatomic Terms	2
2	Basic Structures: Skin, Fasciae, Muscle, Joints, Ligament, Bursae	2
3	Basic Structures: Bone, Cartilage, Blood Vessels, Lymphatic System	2
4	Basic Structures: Bone, Cartilage, Blood Vessels, Lymphatic System	2
5	Basic Structures: Nervous System, Mucous Membranes, Serous Membranes	2
6	Skeletal system of the body: Skull :Cranial Bones	2
7	Skeletal system of the body: Skull :Cranial Bones	2
8	Skeletal system of the body: Skull : Facial Bones	2
9	Skeletal system of the body: Skull : Facial Bones	2
10	External Views of the Skull	2
11	External Views of the Skull	2
12	The Cranial Cavity <input type="checkbox"/> Major Foramina and Fissures locations and structures pass through <input type="checkbox"/> Neonatal Skull	2
13	The Cranial Cavity <input type="checkbox"/> Major Foramina and Fissures locations and structures pass through <input type="checkbox"/> Neonatal Skull	2
14	<input type="checkbox"/> Skeleton of the Orbital Region, Openings into the Orbital Cavity <input type="checkbox"/> Skeleton of the External Nose, nasal cavity, Paranasal Sinuses <input type="checkbox"/> Auditory ossicles <input type="checkbox"/> Hyoid bone	2

Course description

10. course title: Arabic	
11. course code: 109AL	
12. Year : 2024-2025	
13. Date of course preparation: -5-2025	
14.Attendance forms available: : Attendance in the classroom for the theoretical subject	
.15 Number of study hours (total/(number of units) (total): <u>30 hours/60 study units</u>	
.16 Name of course administrator:	
17. course objectives	
<p>Empowering students with the Arabic language and trying to keep them in touch with it as it is close to the rules of languages such as English in most cases, which requires returning to the original language due to the urgent need for it.</p> <p>Developing the university mentality through learning about the correct Arabic language.</p>	<p>Objectives of the study subject</p>
18. Teaching and learning strategies	
<p>Lectures using the Point] [power] program</p> <ul style="list-style-type: none"> • Scientific discussions <p>Guiding students to some specialized websites</p> <ul style="list-style-type: none"> • Providing students with lectures from Arabic books on grammar, literature, and dictation 	<p>Strategy</p>

10. Course structure					
Evaluation method	Learning method	Unit name or the topic	Required learning outcomes	Hours	Week
Daily, monthly, semi-annual and final exams	Theoretical lecture using the program power point	Arabic language	Literary topics Al-Mutanabbi (The Life of the Poet, with a poem in addition to critical commentary)	1	1
Daily, monthly, semi-annual and final exams	Theoretical lecture using the program power point	Arabic language	Badr Shaker Al-Sayyab (The Life of the Poet, with a poem in addition to critical commentary)	1	2
Daily, monthly, semi-annual and final exams	Theoretical lecture using the program power point	Arabic language	Nazik Al-Malaika (The Life of the Poet, with a poem in addition to a critical commentary)	1	3
Daily, monthly, semi-annual and final exams	Theoretical lecture using the program power point	Arabic language	Al-Jawahiri (The Life of the Poet, with a poem in addition to a critical commentary)	1	4
Daily, monthly, semi-annual and final exams	Theoretical lecture using the program power point	Arabic language	Grammatical topics Nominal sentence	1	5
Daily, monthly, semi-annual and final exams	Theoretical lecture using the program power point	Arabic language	Actual sentence	1	6
Daily, monthly, semi-annual and final exams	Theoretical lecture using the program power point	Arabic language	The beginner	1	7
Daily, monthly, semi-annual and final exams	Theoretical lecture using the program power point	Arabic language	the news	1	8
Daily, monthly, semi-annual and final exams	Theoretical lecture using the program power point	Arabic language	Copiers	1	9
Daily, monthly, semi-annual and final exams	Theoretical lecture using the program power point	Arabic language	The original and secondary signs in the noun and the present tense verb	1	10

Daily, monthly, semi-annual and final exams	Theoretical lecture using the program power point	Arabic language	Sub-signs in the noun and present tense verb	1	11
Daily, monthly, semi-annual and final exams	Theoretical lecture using the program power point	Arabic language	Subaccusative signs	1	12
Daily, monthly, semi-annual and final exams	Theoretical lecture using the program power point	Arabic language	Sub-prepositions	1	13
Daily, monthly, semi-annual and final exams	Theoretical lecture using the program power point	Arabic language	Subjunctive signs	1	14
Daily, monthly, semi-annual and final exams	Theoretical lecture using the program power point	Arabic language	Morphological topics Derivatives	1	15
Daily, monthly, semi-annual and final exams	Theoretical lecture using the program power point	Arabic language	Active participle	1	16
Daily, monthly, semi-annual and final exams	Theoretical lecture using the program power point	Arabic language	Exaggeration formulas	1	17
Daily, monthly, semi-annual and final exams	Theoretical lecture using the program power point	Arabic language	participle	1	18
Daily, monthly, semi-annual and final exams	Theoretical lecture using the program power point	Arabic language	Abstract verb and more	1	19
Daily, monthly, semi-annual and final exams	Theoretical lecture using the program power point	Arabic language	Masculine, feminine, and feminine signs	1	20
Daily, monthly, semi-annual and final exams	Theoretical lecture using the program power point	Arabic language	Missing name	1	21
Daily, monthly, semi-annual and final exams	Theoretical lecture using the program power point	Arabic language	Plural of missing nouns	1	22

Daily, monthly, semi-annual and final exams	Theoretical lecture using the program power point	Arabic language	Shortened name	1	23
Daily, monthly, semi-annual and final exams	Theoretical lecture using the program power point	Arabic language	Plural noun	1	24
Daily, monthly, semi-annual and final exams	Theoretical lecture using the program power point	Arabic language	Elongated name	1	25
Daily, monthly, semi-annual and final exams	Theoretical lecture using the program power point	Arabic language	Plural of extended noun	1	26
Daily, monthly, semi-annual and final exams	Theoretical lecture using the program power point	Arabic language	Crushing crowds	1	27
Daily, monthly, semi-annual and final exams	Theoretical lecture using the program power point	Arabic language	Spelling topics: deletion and addition, letters that are deleted, letters that are added	1	28
Daily, monthly, semi-annual and final exams	Theoretical lecture using the program power point	Arabic language	The short alif, the extended alif, the bound ta', the open ta', the dhaad and the dhaad	1	29
Daily, monthly, semi-annual and final exams	Theoretical lecture using the program power point	Arabic language	The hamza and its rulings on punctuation marks	1	30
11. course evaluation					
<p>Distribution of a score out of 100 according to the student's choice for daily preparation, daily, oral and monthly exams, editing, reports...etc.</p> <p>%15half the year</p> <p>%15per year (including annual and monthly exams) 70%</p> <p>final final exam</p>					
. 12.Learning and teaching resources					
Arabic language for non-major departments			Required textbooks (methodology, if any)		
<p>Explanation of Ibn Aqeel</p> <p>A comprehensive collection of Arabic grammar lessons</p> <p>Rules for studying the Arabic language</p>			Main references (sources)		

Course Description Form

.1 Course Name: Computer Science	
2. Course Code: 103CS	
3. Semester/year: 2024-2025	
.4 Date of preparation of this description 2025/5/	
.5 Available forms of attendance: Attendance in the classroom for the theoretical subject (weekly)	
.6 Total number of study hours/Total number of units: 30 hours/60 study units	
.7 Course Instructor Name	
A.P. Noor sabah abbas A.P. Aya ibraheem Abdulrazaq A.P. Ayman thamer hasan	
8. Course objectives	
<ul style="list-style-type: none"> • Introduction to Computer Science teaches students the performance of computers, approved methods, programs, and the use of computers in the medical field. 	Course Objectives
9. Teaching and learning strategies	
<ul style="list-style-type: none"> • Cooperative learning: Encourages collaboration and interaction among learners to solve problems and discuss concepts. • Active learning: Focuses on actively engaging learners in the learning process through the use of interactive activities such as role-playing, simulations, and practical experiments 	Strategy

<ul style="list-style-type: none"> • Technology-based learning: uses technology in the learning and teaching process, such as the use of multimedia and online learning. 	
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1. Course Name: Computer Science	
2. Course Code: 103CS	
3.Semester/year: 2024-2025	
4. Date of preparation of this description: /5/2025	
5. Available forms of attendance: Attendance in the classroom for the practical subject (weekly)	
6. Total number of study hours/Total number of units: 60 hours/120 study units	
7. Name of the course administrator (if more than one name is mentioned)	
A.P. Noor sabah abbas A.P. Aya ibraheem Abdulrazaq A.P. Ayman thamer hasan	
8. Course objectives	
Introduction to Computer Science teaches students the performance of computers, approved methods, programs, and the use of computers in the medical field.	Course objectives
9. Teaching and learning strategies	

<p>Cooperative learning: Encourages collaboration and interaction among learners to solve problems and discuss concepts.</p> <p>Active learning: Focuses on actively engaging learners in the learning process through the use of interactive activities such as role-playing, simulations, and practical experiments.</p> <p>Technology-based learning: Uses technology in the learning and teaching process, such as the use of multimedia and online learning.</p>	Strategy
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10.course structure (practical)					
Evaluation method	Learning method theoretical	Name of the unit or topic	Required learning outcomes	hours	Week
Daily, monthly, semi-annual and final exams	Using the computer with the smart board	Computer	Introduction about computer /Hardware and Software/computer structure/ Floppy magnetic disks+ E-learning	1	2 + 1
Daily, monthly, semi-annual and final exams	Using the computer with the smart board	Computer	Introduction to E-learning Google Classroom Platform Google drive+ Google forms	1	4 + 3
Daily, monthly, semi-annual and final exams	Using the computer with the smart board	Computer	Online conferencing+ Introduction about Windows /A look at Windows 10/Stating Windows 10/Working with a windows Program+Working with files and folders/ Using My computer	1	6 + 5
Daily, monthly, semi-annual and final exams	Using the computer with the smart board	Computer	Working with Taskbar and Desktop+ Using Windows Accessories	1	8 + 7
Daily, monthly, semi-annual and final exams	Using the computer with the smart board	Computer	A look at Control Panel+ Widows Explorer	1	10 + 9
Daily, monthly, semi-annual and final exams	Using the computer with the smart board	Computer	Libraries+ Introduction about Microsoft Word2016 A look at Microsoft Word /Editing Document	1	+ 11 12
Daily, monthly, semi-annual and final exams	Using the computer with the smart board	Computer	Formatting Text/ Formatting paragraphs/ Proofing documents	1	13

Daily, monthly, semi-annual and final exams	Using the computer with the smart board	Computer	Adding Tables	1	14
Daily, monthly, semi-annual and final exams	Using the computer with the smart board	Computer	Inserting Graphic Elements+ Controlling page Appearance	1	+ 15 16
Daily, monthly, semi-annual and final exams	Using the computer with the smart board	Computer	Introduction about Excels /A Look at Microsoft Excel+ Modifying A Worksheet /performing Calculations	1	+ 17 18
Daily, monthly, semi-annual and final exams	Using the computer with the smart board	Computer	Formatting a worksheet/ Developing a work book/ Printing Workbook Contents/Customizing Layout	1	19
Daily, monthly, semi-annual and final exams	Using the computer with the smart board	Computer	Introduction about Microsoft Access/ A look at Microsoft Access+ Creating Data tables /properties of the fields	1	+ 20 + 21 22
Daily, monthly, semi-annual and final exams	Using the computer with the smart board	Computer	Querying the database/Designing Forms/Producing reports	1	23
Daily, monthly, semi-annual and final exams	Using the computer with the smart board	Computer	Introduction about Microsoft Power point/starting power point2016	1	+ 24 25
Daily, monthly, semi-annual and final exams	Using the computer with the smart board	Computer	Formatting text/Using graphics and Text	1	26
Daily, monthly, semi-annual and final exams	Using the computer with the smart board	Computer	Manipulating the slides/Using Multimedia Elements	1	+ 27 28
Daily, monthly, semi-annual and final exams	Using the computer with the smart board	Computer	Power point Management	1	29
Daily, monthly, semi-annual and final exams	Using the computer with the smart board	Computer	Microsoft Access	1	30

11. course evaluation

The grade was distributed 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 course (includes summer training, daily and monthly exams, and practical requirements) %25
20% final practical exam
final waiting exam %40

. 12 Learning and teaching resources	
Windows 10 • Office 2016 • • Computer basics and office applications Part one and part two	. Required textbooks (methodology, if any)
Computer application in management • E-learning concepts and techniques •	Main references (sources)

Dental anatomy	.19
Course code : 104DA	.20
Year : 2024-2025	.21

22. Date of preparation of this description: 2025/5/	
23. Available forms of attendance: Attendance in the classroom for theoretical subjects and laboratories	
24. Total number of study hours/total number of units: 30 theoretical hours (120 study units) and 60 practical hours (120 study units)	
25. Name of the course administrator (if more than one name is mentioned)	
Name: A.P. mohammad khalid muhammed.kh.makki@uruk.edu.iq A.P. Rana jihad	
26. Course objectives	
<p>To provide a comprehensive understanding of tooth morphology and function, essential to all aspects of dental practice. Considered a core course in preclinical dental curricula, Dental Anatomy introduces students to the anatomical characteristics of both permanent and deciduous teeth. Furthermore, it aims to develop students' motor skills to restore teeth to proper form and function. Students gain the knowledge to identify and recognize teeth, diagnose dental anomalies, and treat or manage dental disease. One of the main goals of Dental Anatomy is to equip students with basic cognitive skills related to tooth morphology, thus preparing them for clinical procedures. Dental Anatomy provides basic knowledge through lectures and develops students' motor skills through a series of two-dimensional drawing projects and exercises for sculpting teeth from wax blocks.</p> <p>Send feedback Side panels History Saved</p>	Course objectives
<p>• Subject-specific skills</p> <p>Providing students with the skills to distinguish between different teeth by - 1 .knowing the anatomical properties of the teeth</p> <p>.Students acquire the skills of sculpting tooth shapes using wax molds -2</p> <p>Preparing students for clinical work by providing them with the skills of - 3 reshaping dental details with dental filling material.</p>	Strategy

10. Course structure					
Evaluation method	The learning method is theoretical or practical	Name of unit or topic	Required learning outcomes	Hours	week
Daily, monthly, semi-annual, and final exams	Theoretical lectures by using power point program	Introduction Nomenclature Heterodont Diphyodont The Deciduous Teeth The Permanent Teeth Anterior and Posterior Teeth The Jaw Numbering Systems 1. Universal notation system. 2. Palmer notation system. 3. FDI notation system	-1 The student acquires a comprehensive knowledge of the anatomy, form, and function of teeth. -2 Focus on the basic principles and their importance in the etiological applications of dental fillings. -3 The student acquires a comprehensive knowledge of dental differentiation, diagnosis of anomalies, and treatment of dental diseases. -4 Know the timing and sequence of dental fillings in the mouth. -5 Formulate and program information in a way that enables students to understand and express themselves effectively. Regarding both theoretical and practical aspects	1	1

Daily, monthly, semi-annual, and final exams	Theoretical lectures by using power point program	Tooth parts 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		1	2
Daily, monthly, semi-annual, and final exams	Theoretical lectures by using power point program	Anatomical Landmarks Cusp, Tubercle, Cingulum, Ridge, Fossa, Developmental groove, Pit, mamelons, sulcus, perikymata, fissure, root trunk, furcation, periodontium: A. Alveolar Bone B. Tooth Root Surface C. Periodontal ligament D. Gingiva E. Alveolar mucosa		1	3
Daily, monthly, semi-annual, and final exams	power point	Permanent Maxillary Central Incisor Characteristic features of incisor's crown Permanent Maxillary Central Incisor Principal identifying features (Labial Aspect, Mesial Aspect, Distal Aspect, Lingual Aspect, Incisal Aspect).		1	4
Daily, monthly, semi-annual, and final exams	Theoretical lectures by using power point program	Permanent Maxillary Lateral Incisor Principal identifying features (Labial Aspect, Mesial Aspect, Distal Aspect, Lingual Aspect, Incisal Aspect). Variations from the typical form (Anomalies) Main Differences between Maxillary Central and Lateral Incisors		1	5
Daily, monthly, semi-annual, and final exams	Theoretical lectures by using power point program	Permanent Mandibular Incisors Characteristic features of Permanent mandibular Incisors		1	6

		Permanent Mandibular Central Incisor Principal identifying features Permanent Mandibular Lateral Incisor Principal identifying features Some differences between maxillary and mandibular central incisors Main differences between mandibular central and lateral incisors			
Daily, monthly, semi-annual, and final exams	Theoretical lectures by using power point program	Permanent Canines General Characteristic Features of the Canines The Permanent Maxillary Canine Principal Identifying Features The Permanent Mandibular Canine Principal Identifying Features Some differences between maxillary and mandibular canines.		1	7
Daily, monthly, semi-annual, and final exams	Theoretical lectures by using power point program	Permanent Maxillary Premolars Some characteristic features to all posterior teeth Maxillary First Premolar Principal identifying features: Maxillary Second Premolar Principal identifying features Some differences between Maxillary First Premolar and Maxillary Second Premolar		1	8
Daily, monthly, semi-annual, and final exams	Theoretical lectures by using power point program	Permanent Mandibular Premolars Mandibular First Premolar Characteristics that resemble those of the mandibular canine. Characteristics that resemble those of the mandibular second premolar. Principal Identifying Features		1	9
Daily, monthly, semi-annual, and final exams	Theoretical lectures by using power point program	Permanent Mandibular Second Premolar Principal Identifying Features Some differences between Mandibular First Premolar and Mandibular Second Premolar		1	10
Daily, monthly, semi-annual, and final exams	Theoretical lectures by using power point program	Permanent Maxillary Molars Maxillary First Molar Principal Identifying Features		1	11

Daily, monthly, semi-annual, and final exams	Theoretical lectures by using power point program	Maxillary second Molar Principal Identifying Features Maxillary third Molar Principal Identifying Features		1	12
Daily, monthly, semi-annual, and final exams	Theoretical lectures by using power point program	Permanent Mandibular Molars Mandibular First Molar Principal Identifying Features Permanent Mandibular Second Molar Principal Identifying Features Mandibular Third Molar Principal Identifying Features		1	13
Daily, monthly, semi-annual, and final exams	Theoretical lectures by using power point program	Tooth Development Eruption of Teeth Crown and Root Development Steps Sequential Order of Deciduous Teeth and permanent teeth According to their Eruption Times The Importance of Deciduous Teeth Principal Differences between Deciduous and Permanent Teeth Maxillary Deciduous Teeth Mandibular Deciduous Teeth		1	14
Daily, monthly, semi-annual, and final exams	Theoretical lectures by using power point program	Pulp Cavities Root canal types Pulp Shape in Anterior Teeth Pulp Shape in Premolars Pulp Shape in Molars Pulp Cavities Shapes in Cross-Section of Teeth		1	15
Daily, monthly, semi-annual, and final exams	Theoretical lectures by using power point program	Occlusion Angle's classes of jaw relationships: A. Ideal Class I Occlusion B. Class II Malocclusion C. Class III Malocclusion Types of anterior teeth relationship: Types of Molars relationships in cross section:		1	16
Dental Anatomy Laboratory Courses					
Hours number	Title			Lab. No.	
2	Introduction to dental anatomy , Carving Instruments , Numbering systems, Practical demonstration of Carving a Cube (1 cm*1cm*1cm)& Introduction to Anatomical landmarks on Teeth models			1	

2	Description & Carving of the Labial & Incisal Aspects & Finishing of P. Max. Right central incisor	2
2	Practical Training of Carving of P. Max. Right central incisor.	3
2	Practical Exam. Of Carving of P. Max. Right central incisor	4
2	Description & Carving of the labial & Mesial & Incisal Aspects & Finishing of P. Max. Right Canine.	5
2	Practical Training. Of Carving of P. Max. Right Canine.	6
2	Practical Exam. Of Carving of P. Max. Right Canine.	7
2	Description & Carving of the Buccal & Mesial & Occlusal Aspects & Finishing of P. Max. Right 1 st Premolar.	8
2	Practical Training of Carving of P. Max. Right 1 st Premolar.	9
2	Practical Exam. of Carving of P. Max. Right 1 st Premolar.	10
2	Description & Carving of the Buccal & Mesial & Occlusal Aspects & Finishing of P. Mand. Right 1 st Premolar.	11
2	Practical Training. Of Carving of P. Mand. Right 1 st Premolar.	12
2	Practical Exam. Of Carving of P. Mand. Right 1 st Premolar.	13
2	Description & Carving of the Buccal & Mesial & Occlusal Aspects & Finishing of P. Max. Right 1 st molar.	14
2	Practical Training of Carving of P. Max. Right 1 st molar.	15
2	Practical Exam. of Carving of P. Max. Right 1 st molar.	16
2	Description & Carving of the Buccal & Mesial & Occlusal Aspects & Finishing of P. Mand. Right 1 st molar.	17
2	Practical Training of Carving of P. Mand. Right 1 st molar.	18
2	Practical Exam. of Carving of P. Mand. Right 1 st molar.	19
2	Final Practical Exam. Of tooth Carving.	20
11. course evaluation		
<p>The grade is distributed out of 100 based on the student's assigned tasks, such as daily preparation, daily, oral, and monthly exams, written work, reports, etc.</p> <p>15% mid-year 25% annual work (including summer training, daily and monthly exams, and practical requirements) 20% final practical exam 40% final theoretical exam</p>		
12. Learning and Teaching Resources		
1. Woelfel's dental anatomy, its relevance to dentistry. by Rickne C Scheid. 2. Wheeler's Atlas of Tooth Form By Major M Ash.		Required textbooks (methodology if any)

.28	course title: Human rights and democracy	
.29	course code : 105HR	
.30	Year: 2024-2025	
.31	Date: 2025/5/	
.32	Available forms of attendance: Attendance in the classroom for the theoretical subject	
.33	Total academic hours/number of units: 30 hours/60 units	
.34	Course Instructor Name:	
Dr. Sameh Abdel Latif Ali		
35. Course objectives		
• Empowering students to understand civil and political rights and freedoms and trying to keep them connected to them, as understanding them makes students aware of their rights and the limits of their freedoms, as well as the history of these rights. Introducing students to the concept of democracy, the foundations • of building a democratic state, and the types of democratic .systems		Course objectives
. 36 Teaching and Learning Strategies		
• Lectures using PowerPoint Academic discussions • Guiding students to specialized websites • Providing students with lectures from Arabic books and the prescribed • curriculum		Strategy

. 10 Course structure

Evaluation	The method of learning is theoretical or practical	Unit name or the topic	Required learning outcomes	hours	week
Daily, monthly and semi-exams	Theoretical lectures by using power point program	Human rights	Definition of human rights	1	1
Annual and final	Theoretical lectures by using	Human rights	The historical development of the idea of human rights	1	2
Daily, monthly and semi-exams	power point program	Human rights	The idea of human rights in heavenly laws	1	3
Annual and final	Theoretical lectures by using power point program	Human rights	The development of human rights in the Middle and Modern Ages	1	4
Daily, monthly and semi-exams	Theoretical lectures by using power point program	Human rights	Public freedoms/definition of public freedoms	1	5
Annual and final	Theoretical lectures by using	Human rights	Types of rights and public freedoms	1	6
Daily, monthly and semi-exams	power point program	Human rights	Human rights in national, global, and regional declarations of rights	1	7
Daily, monthly and semi-exams Annual and final	Theoretical lectures by using power point program	Human rights	Human rights announcements in Britain	1	8
Daily, monthly and semi-exams	Theoretical lectures by using power point program	Human rights	The Declaration of Human Rights in the United States of America	1	9
Annual and final	Theoretical lectures by using power point	Human rights		1	10

	program		Declaration of the Rights of Man and of the Citizen in France		
Daily, monthly and semi-exams Annual and final	Theoretical lectures by using power point program	Human rights	The Universal Declaration of Human Rights	1	11

Daily, monthly and semi-exams Annual and final	Theoretical lectures by using power point program t	Human rights	Human rights in regional agreements	1	12
Daily, monthly and semi-exams Annual and final	Theoretical lectures by using power point program	Human rights	The Arab Charter on Human Rights	1	13
Daily, monthly and semi-exams Annual and final	Theoretical lectures by using	Human rights	Non-governmental organizations and human rights	1	14
Daily, monthly and semi-exams Annual and final	power point program	Human rights	Guarantees of human rights	1	15
Daily, monthly and semi-exams Annual and final	Theoretical lectures by using	Democracy	The democratic system	1	16
Daily, monthly and semi-exams Annual and final	power point program	Democracy	Definition of democracy	1	17
Daily, monthly and semi-exams Annual and final	Theoretical lectures by using power point program	Democracy	Direct democracy	1	18
Daily, monthly and semi-exams Annual and final	Theoretical lectures by using power point program	Democracy	Institutions of direct democracy	1	19
Daily, monthly and semi-exams Annual and final	Theoretical lectures by using	Democracy	Representative democracy	1	20
Daily, monthly and semi-exams Annual and final	power point program	Democracy	Characteristics of representative democracy	1	21

Daily, monthly and semi-exams Annual and final	Theoretical lectures by using power point program	Democracy	Parliamentary democracy in Iraq	1	22
Daily, monthly and semi-exams Annual and final	Theoretical lectures by using power point program	Democracy	Semi-direct democracy	1	23

Daily, monthly and semi-exams	Theoretical lectures by using power point program	Democracy	Forms of semi-direct democracy	1	24
Annual and final	Theoretical lectures by using power point program	Democracy	The popular proposal	1	25
Daily, monthly and semi-exams	Theoretical lectures by using	Democracy	The deputy was dismissed.	1	26
Daily, monthly and semi-exams Annual and final	power point program	Democracy	The popular solution	1	27
Daily, monthly and semi-exams Annual and final	Theoretical lectures by using power point program	Democracy	The impeachment of the President	1	28
Daily, monthly and semi-exams Annual and final	Theoretical lectures by using	Democracy	The popular referendum	1	29
Daily, monthly and semi-exams Annual and final	power point program	Democracy	Popular protest	1	30
.11. program evaluation					
<p>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</p> <p>half the year %15 annual course (including daily and monthly exams) %15 70% final theoretical exam</p>					
12. learning and teaching sources					
Hafez Alwan Hammadi, human rights			Required textbooks (methodology, if any). (

Hamid Hanwan Khaled, Human Rights, a group of authors, Understanding Human Rights, a guide to learning human rights	Main references (sources). (
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Course description

37. Course code: Medical chemistry	
.38 course code 106CH	
.39 year: 2024-2025	
.40 date 2025/5/	
.41 Attendance in the classroom for the theoretical subject	
. 42 Total number of study hours (total)/(total number of units): (60 hours) theoretical/(240 study units)	
. 43 Name of the course coordinator (if there are multiple names, please list them)	
(
raheem.s.jebur@uruk.edu.iq	Lec. Dr. Raheem S. Jebur
.44 course objective	
<input type="checkbox"/> The medical chemistry lesson aims to distinguish the basics of chemistry in all its inorganic, organic, and semiotic fields and its connection to .dentistry	Objectives
45. Teaching and learning strategies	
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	

10. course structure					
Evaluation method	Method of learning theoretically or practical	Title	Learning outcome	hours	week
Daily, monthly and semi-exams Annual and final	Theoretical lecture using the program power point.	Medical Chemistry	Acid, Base and Salt	2	1
Daily, monthly and semi-exams Annual and final	Theoretical lecture using the program power point.	Medical Chemistry	salts, preparation of salts	2	2
Daily, monthly and semi-exams Annual and final	Theoretical lecture using the program power point.	Medical Chemistry	Fluid and electrolyte	2	3
Daily, monthly and semi-exams Annual and final	Theoretical lecture using the program power point.	Medical Chemistry	Buffer-pH and Acid-Base Balance	2	4
Daily, monthly and semi-exams Annual and final	Theoretical lecture using the program power point.	Medical Chemistry	acid-base balance and blood pH	2	5
Daily, monthly and semi-exams Annual and final	Theoretical lecture using the program power point.	Medical Chemistry	Colloids and colloidal dispersions	2	6
Daily, monthly and semi-exams Annual and final	Theoretical lecture using the program power point.	Medical Chemistry	Chirality in Biological Systems (Molarity)	2	7
Daily, monthly and semi-exams Annual and final	Theoretical lecture using the program power point.	Medical Chemistry	Molar concentration	2	8
Daily, monthly and semi-exams Annual and final	Theoretical lecture using the program power point.	Medical Chemistry	Pollution	2	9
Daily, monthly and semi-exams Annual and final	Theoretical lecture using the program power point.	Medical Chemistry	Radiochemistry	2	10

Daily, monthly and semi-exams Annual and final	Theoretical lecture using the program power point.	Medical Chemistry	Alkanes and Cycloalkanes	2	11
Daily, monthly and semi-exams Annual and final	Theoretical lecture using the program power point.	Medical Chemistry	Alkenes and Alkynes	2	12
Daily, monthly and semi-exams Annual and final	Theoretical lecture using the program power point	Medical Chemistry	Aromatic compounds	2	13
Daily, monthly and semi-exams Annual and final	Theoretical lecture using the program power point.	Medical Chemistry	Aromatic compounds in Nature	2	14
Daily, monthly and semi-exams Annual and final	Theoretical lecture using the program power point.	Medical Chemistry	Stereoisomers of Carbon	2	15
Half-year Break					
Daily, monthly and semi-exams Annual and final	Theoretical lecture using the program power point.	Medical Chemistry	Diastereomers	2	16
Daily, monthly and semi-exams Annual and final	Theoretical lecture using the program power point.	Medical Chemistry	Phenols (preparation, reactions)	2	17
Daily, monthly and semi-exams Annual and final	Theoretical lecture using the program power point.	Medical Chemistry	Carboxylic Acids And Their Derivatives	2	18
Daily, monthly and semi-exams Annual and final	Theoretical lecture using the program power point.	Medical Chemistry	Amides	2	19

Daily, monthly and semi-exams Annual and final	Theoretical lecture using the program power point.	Medical Chemistry	Aldehydes and ketones	2	20
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Daily, monthly and semi-exams	Theoretical lecture using the program	Medical Chemistry	Carbohydrates	2	21
Annual and final	power	Medical Chemistry	Monosaccharide's	2	22
Daily, monthly and semi-exams	Theoretical lecture using the program power point	Medical Chemistry	Disaccharides	2	23
Annual and final	Theoretical lecture using the program power point	Medical Chemistry	Lipids	2	24
Daily, monthly and semi-exams	Theoretical lecture using the program power point	Medical Chemistry	Derived lipids	2	25
Annual and final	Theoretical lecture using the program power point	Medical Chemistry	Proteins and Amino Acids	2	26
Daily, monthly and semi-exams	Theoretical lecture using the program power point	Medical Chemistry	Amino acids	2	27
Annual and final	Theoretical lecture using the program power point	Medical Chemistry	Nucleic Acids	2	28
Daily, monthly and semi-exams Annual and final	Theoretical lecture using the program power point	Medical Chemistry	Nucleosides, Nucleotides	2	29
Daily, monthly and semi-exams Annual and final	Theoretical lecture using the program power	Medical Chemistry	Dioxy and ribo Nucleic acids	2	30

	point				
			Final exam		
<p>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</p> <p>half the year %15 annual course (includes daily and monthly exams and %25 practical requirements)</p>					

20 final practical exam 40% final
theoretical exam

12. Learning and teaching resources

The Chemical Basis Of • Life :General ,Organic, and Biological Chemistry for the Health Sciences By George H.Schmid	Textbooks
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	Main sources
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Course description

.46	Medical chemistry
.47	course code : 106CH
.48	year : 2024-2025
.49	Date: 2025/5/
.50	: Attendance in laboratories for the practical subject
.51	Study hours (total/(number of units) (total): 60 hours (practical/) 120 study units

52. Name of the course administrator	
Name: M. Alia Hashem Faraj aliaa.h.farag@uruk.edu.iq	
53. course objectives	
<ul style="list-style-type: none"> 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 	Objectives
54. Teaching and learning strategies	
<ul style="list-style-type: none"> -1 Enhancing thinking skills through problem-based .learning Acquiring the basic principles stipulated in the -2 .learning curriculum Developing the student's ability to discuss and -3 .dialogue 	Strategy

.10. course structure					
Evaluation	Practical learning method	Name of the unit or topic	Learning outcomes	Hours	week
Short exams, evaluation of the practical part, and the final exam	Explain the theoretical part using powerpoint Then apply the part Practical	Medical Chemistry	Safety of chemicals part 1	2	1
Short exams, evaluation of the practical part, and the final exam	Explain the theoretical part using powerpoint Then apply the part Practical	Medical Chemistry	Safety of chemicals part2	2	2

Short exams, evaluation of the practical part, and the final exam Short exams, evaluation of the practical part, and the final exam	Explain the theoretical part using powerpoint Then apply the part	Medical Chemistry	Action of Strong Base and Acids	2	3
Short exams, evaluation of the practical part, and the final exam	Explain the theoretical part using powerpoint	Medical Chemistry	Solubility rules and Applications (Solubility rules of salts).	2	4
Short exams, evaluation of the practical part, and the final exam	Explain the theoretical part using powerpoint	Medical Chemistry	Test for negative ions (Anions).part 1	2	5
Short exams, evaluation of the practical part, and the final exam	Explain the theoretical part using powerpoint	Medical Chemistry	Test for negative ions (Anions). part 2	2	6
Short exams, evaluation of the practical part, and the final exam	Then apply the part Practical Explain the theoretical part using	Medical Chemistry	PH meter	2	7
Short exams, evaluation of the practical part, and the final exam	Explain the theoretical part using powerpoint	Medical Chemistry	Test for positive ions (Cations). part 1	2	8
Short exams, evaluation of the practical part, and the final exam	Then apply the part Practical	Medical Chemistry	Test for positive ions (Cations). part 2	2	9
Short exams, evaluation of the practical part, and the final exam	Explain the theoretical part using powerpoint Then apply the part	Medical Chemistry	Titration	2	10

Short exams, evaluation of the practical part, and the final exam	Explain the theoretical part using powerpoint Then apply the part Practical	Medical Chemistry	hydrocarbons	2	11
Short exams, evaluation of the practical part, and the final exam	Explain the theoretical part using powerpoint Then apply the part Practical	Medical Chemistry	Aliphatic Hydrocarbons	2	12
Short exams, evaluation of the practical part, and the final exam	Explain the theoretical part using powerpoint Then apply the part Practical	Medical Chemistry	Aromatic hydrocarbons Part.1	2	13
Short exams, evaluation of the practical part, and the final exam	Explain the theoretical part using powerpoint Then apply the part Practical	Medical Chemistry	Aromatic hydrocarbons Part.2	2	14
Short exams, evaluation of the practical part, and the final exam	Explain the theoretical part using powerpoint Then apply the part Practical	Medical Chemistry	Preparation of aspirin	2	15
Short exams, evaluation of the practical part, and the final exam	Explain the theoretical part using powerpoint Then apply the part Practical	Medical Chemistry	alcohol	2	16
Short exams, evaluation of the practical part, and the final exam	Explain the theoretical part using powerpoint Then apply the part Practical	Medical Chemistry	Phenols reactions	2	17
Short exams, evaluation of the practical part, and the final exam	Explain the theoretical part using powerpoint Then apply the part Practical	Medical Chemistry	Aldehydes and ketones	2	18
Short exams, evaluation of the practical part, and the final exam	Explain the theoretical part using powerpoint Then apply the part Practical	Medical Chemistry	Carboxylic Acids reactions part 1	2	19

	Practical				
Short exams, evaluation of the practical part, and the final exam	Explain the theoretical part using powerpoint Then apply the part Practical	Medical Chemistry	Carboxylic Acids reactions part 2	2	20
Short exams, evaluation of the practical part, and the final exam	Explain the theoretical part using powerpoint Then apply the part Practical	Medical Chemistry	Carbohydrates reactions	2	21
Short exams, evaluation of the practical part, and the final exam	Explain the theoretical part using powerpoint Then apply the part Practical	Medical Chemistry	Monosaccharides reactions	2	22
Short exams, evaluation of the practical part, and the final exam	Explain the theoretical part using powerpoint Then apply the part Practical	Medical Chemistry	Disaccharides reactions	2	23
Short exams, evaluation of the practical part, and the final exam	Explain the theoretical part using powerpoint Then apply the part Practical	Medical Chemistry	Lipids reactions part 1	2	24
Short exams, evaluation of the practical part, and the final exam	Explain the theoretical part using powerpoint Then apply the part Practical	Medical Chemistry	Lipids reactions part 2	2	25
Short exams, evaluation of the practical part, and the final exam	Explain the theoretical part using powerpoint Then apply the part Practical	Medical Chemistry	Proteins reactions	2	26

Short exams, evaluation of the practical part, and the final exam	Explain the theoretical part using powerpoint Then apply the part Practical	Medical Chemistry	Amino acids reactions	2	27
Short exams, evaluation of the practical part, and the final exam	Explain the theoretical part using powerpoint Then apply the part Practical				

Short exams, evaluation of the practical part, and the final exam	Explain the theoretical part using powerpoint Then apply the part Practical	Medical Chemistry	Paper chromatography part 1	2	28
Short exams, evaluation of the practical part, and the final exam	Explain the theoretical part using powerpoint Then apply the part Practical	Medical Chemistry	Paper chromatography Part 2	2	29
Short exams, evaluation of the practical part, and the final exam	Explain the theoretical part using powerpoint Then apply the part Practical	Medical Chemistry	osmosis	2	30
. 11. Course evaluation					
<p>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</p> <p>annual endeavor (includes daily and monthly exams and %7 practical requirements) 20% final practical exam</p>					
12. Learning and teaching resources					
<ul style="list-style-type: none"> The Chemical Basis Of Life :General ,Organic, and Biological Chemistry for the Health Sciences <p style="text-align: right;">By George H.Schmid</p>			Required textbooks (methodology, if any)		
<ul style="list-style-type: none"> Practical Organic And BIO- Chemistry <p style="text-align: right;">BY R. H. A. PLIMINER Reader in Physiological Chemistry, University of London, University College A text-book of macro and semimicro qualitative inorganic analysis . <p style="text-align: right;">Fifth Edition Revised by G. Svehla, Ph. D., D. Sc., F. R. I. C Reader in Analytical Chemistry, Queen's University, Belfast</p> </p>			Main references (sources)		
<ul style="list-style-type: none"> 					

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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		
<ul style="list-style-type: none"> • 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	Strategy	

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 <div style="text-align: right;">half the year %15</div> annual tuition (includes summer training, daily and monthly exams, and practical requirements) %25					

%20 final practical exam 40% final theoretical exam	
. 12. Learning and teaching resources	
<ul style="list-style-type: none"> • Medical Physics by John Cameron • Physics of the human body by Irving Herman 	Required textbooks (methodology, if any)
<ul style="list-style-type: none"> • physics for scientists and engineer, Raymond A, serway, 1987. 	Recommended supporting books andreferences (scientific journals, reports)
<ul style="list-style-type: none"> • 	

Course description

.10 course name

Medical physics

11. course code medical physics PS 107

12. Year:

2024-2025

Date :

/5/2025

14. Available forms of attendance:

Entry to the laboratory

:(Number of academic hours (total/(number of units (total .15
required hours/120 required units 60

Name of the course administrator (if more than one name is mentioned) .16
Prof. Dr. Orouba Jamil Tarish
M.M. Zahraa Jamal Salim

17. course objectives

<ul style="list-style-type: none"> • Enabling 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	
18. Teaching and learning strategies		
<p>The relationship of physics to humans</p> <p>-2Physical effects within the human body</p> <p>-3Physical applications on the human body for diagnosis and treatment. 4- Improving the performance of the human body through physical means</p> <p>-5The relationship of all this information to human health 6-</p> <p>Lectures and discussion to consolidate ideas 7- Experiments, laboratories, and preparing reports 8- Using e-learning</p>	Strategy	

Course structure (practical)					
Evaluation method	Teaching method	Name of the unit/course or the topic	Subject vocabulary	Hours	Week
Short exams, evaluation of the practical part, and Final exam	Explain the theoretical part using Apply then power point Practical part	Medical Physics	Guidelines of Medical Physics Lab and Rules must be obeyed by the students	2	1
Short exams, evaluation of the practical part, and Final exam	Explain the theoretical part using Apply then power point Practical part	Medical Physics	Graphing Techniques	2	2
Short exams, evaluation of the practical part, and Final exam	Explain the theoretical part using Apply then power point Practical part	Medical Physics	Ohm's law: - verify ohm's law - to find the value of different values of resistance	2	3
Short exams, evaluation of the practical part, and Final exam	Explain the theoretical part using Apply then power point Practical part	Medical Physics		2	4
Short exams, evaluation of the practical part, and Final exam	Explain the theoretical part using Apply then power point Practical part	Medical Physics	Semiconductors (junction diode): To determine the characteristics of the semiconductors Comparison between omic and non-omic resistance	2	5
Short exams, evaluation of the practical part, and Final exam	Explain the theoretical part using Apply then power point Practical part	Medical Physics		2	6
Short exams, evaluation of the practical part, and Final exam	Explain the theoretical part using Apply then power point Practical part	Medical Physics	Cathode Ray Oscilloscope -Measurement of deflection sensitivity of D. C. voltage. -Measurement of deflection sensitivity of A. C. voltage	2	7
Short exams, evaluation of the practical part, and Final exam	Explain the theoretical part using Apply then power point Practical part	Medical Physics		2	8
Short exams, evaluation of the practical part, and Final exam	Explain the theoretical part using Apply then power point Practical part	Medical Physics	The focal length of convex lens: -Rough value of focal length of different convex lenses,	2	9

Short exams, evaluation of the practical part, and Final exam	Explain the theoretical part using Apply then power point Practical part	Medical Physics	-A graphical method of measuring of focal length, Comparison between these methods and the given value.	2	10
Short exams, evaluation of the practical part, and Final exam	Explain the theoretical part using Apply then power point Practical part	Medical Physics	Hook's law:	2	11
Short exams, evaluation of the practical part, and Final exam	Explain the theoretical part using Apply then power point Practical part	Medical Physics	-To verify Hook's law and determine the force constant of the spring. -To determine the work done by stretching the spring.	2	12
Short exams, evaluation of the practical part, and Final exam	Explain the theoretical part using Apply then power point Practical part	Medical Physics	Focal length of concave mirror: -Locating the radius of curvature -Determining the focal length	2	13
Short exams, evaluation of the practical part, and Final exam	Explain the theoretical part using Apply then power point Practical part	Medical Physics		2	14
Short exams, evaluation of the practical part, and Final exam	Explain the theoretical part using Apply then power point Practical part	Medical Physics	General review and 1 st course exam	2	15
Short exams, evaluation of the practical part, and Final exam	Explain the theoretical part using Apply then power point Practical part	Medical Physics	Laser applications: -To measure the width of a single slit by using a laser -To measure the wavelength of laser by using a certain single slit	2	16
Short exams, evaluation of the practical part, and Final exam	Explain the theoretical part using Apply then power point Practical part	Medical Physics	Boyle's law: -To verify Boyle's law -To measure the pressure of the atmosphere	2	17
Short exams, evaluation of the practical part, and Final exam	Explain the theoretical part using Apply then power point Practical part	Medical Physics		2	18

Short exams, evaluation of the practical part, and Final exam	Explain the theoretical part using Apply then power point Practical part	Medical Physics	Inverse Square law: - To verify the inverse square law - Radiation shielding by different thicknesses of of a certain material	2	19
Short exams, evaluation of the practical part, and Final exam	Explain the theoretical part using Apply then power point Practical part	Medical Physics		2	20
Short exams, evaluation of the practical part, and Final exam	Explain the theoretical part using Apply then power point Practical part	Medical Physics	Viscosity of a liquid - To determine the viscosity of a medium using a small sphere falls with a constant terminal velocity.	2	21
Short exams, evaluation of the practical part, and Final exam	Explain the theoretical part using Apply then power point Practical part	Medical Physics	- To verify Stokes' law	2	22
Short exams, evaluation of the practical part, and Final exam	Explain the theoretical part using Apply then power point Practical part	Medical Physics	Velocity of the sound - To measure the velocity of the sound by using a resonance tube, closed at one end, at room temperature.	2	23
Short exams, evaluation of the practical part, and Final exam	Explain the theoretical part using Apply then power point Practical part	Medical Physics	- Calculated the theoretical and practical values of the velocity of sound and comparing between them.	2	24
Short exams, evaluation of the practical part, and Final exam	Explain the theoretical part using Apply then power point Practical part	Medical Physics	The focal length of a converging lens - To determine the focal length of a converging lens by lens displacement method using conjugate foci.	2	25
Short exams, evaluation of the practical part, and Final exam	Explain the theoretical part using Apply then power point Practical part	Medical Physics	- To calculate curvature value of this converging lens	2	26
Short exams, evaluation of the practical part, and Final exam	Explain the theoretical part using Apply then power point Practical part	Medical Physics	Simple Pendulum -To determine the periodic time and its variation with the length	2	27

Short exams, evaluation of the practical part, and Final exam	Explain the theoretical part using Apply then power point Practical part	Medical Physics	of the pendulum -To calculate the acceleration of free fall	2	28
Short exams, evaluation of the practical part, and Final exam	Explain the theoretical part using Apply then power point Practical part	Medical Physics	General review and 2 nd course exam	2	29
Short exams, evaluation of the practical part, and Final exam	Explain the theoretical part using Apply then power point Practical part	Medical Physics		2	30

. 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 course (includes summer training, daily and monthly exams, %25
and practical requirements) 20% final practical exam
final theoretical exam %40

12- teaching sources

<ul style="list-style-type: none"> Medical Physics by John Cameron Physics of the human body by Irving Herman 	Required textbooks (methodology, if any)
<ul style="list-style-type: none"> physics for scientists and engineer, Raymond A, serway, 1987. 	Recommended supporting books ,and references (scientific journals) Reports
<ul style="list-style-type: none"> 	

Course description

.55	course name : Biology
.56	course code : 108 BL
.57	Year : 2024-2025

.58	date: 2025/5/
.59	attendance form : theoretical lectures
60. Number of academic hours (total/(number of units) (total): 60 theoretical hours/240 organizational units.	
.61	a d m i n i s t r a t o r n a m e
Assist. Lec. . Hassanein Ali Rahma hasanain.a.rahma@uruk.edu.iq	
.62	course objectives
<ul style="list-style-type: none"> Introduction to general biology • Study of cell and tissue science • Study of medical parasitology • 	Objectives
learning strategy .63	
<ul style="list-style-type: none"> • Lecture strategy show)] (data point [power E-learning strategy • Discussion strategy • 	strategy

.11 course structure						
Evaluation method	Learning method	Topics	Lectures	Hours		week
Short exams, evaluation of the practical part, and Final exam	Explain the theoretical part using Apply then power point Practical part	Biology	Introduction to biology	2	1	
Short exams, evaluation of the practical part, and Final exam	Explain the theoretical part using Apply then power point Practical part	Biology	Bacteriology	2	2	
Short exams, evaluation of the practical part, and Final exam	Explain the theoretical part using Apply then power point Practical part	Biology	Human Genetics (part 1)	2	3	
Short exams, evaluation of the practical part, and Final exam	Explain the theoretical part using Apply then power point Practical part	Biology	Human Genetics (part 2)	2	4	
Short exams, evaluation of the practical part, and Final exam	Explain the theoretical part using Apply then power point Practical part	Biology	Immunity	2	5	
Short exams, evaluation of the practical part, and Final exam	Explain the theoretical part using Apply then power point Practical part	Biology	Cell structure	2	6	
Short exams, evaluation of the practical part, and Final exam	Explain the theoretical part using Apply then power point Practical part	Biology	Cell organelle	2	7	

Short exams, evaluation of the practical part, and Final exam	Explain the theoretical part using Apply then power point Practical part	Biology	Epithelial tissue	2	8	
Short exams, evaluation of the practical part, and Final exam	Explain the theoretical part using Apply then power point Practical part	Biology	Glandular tissue	2	9	
Short exams, evaluation of the practical part, and Final exam	Explain the theoretical part using Apply then power point Practical part	Biology	Proper connective tissue	2	10	
Short exams, evaluation of the practical part, and Final exam	Explain the theoretical part using Apply then power point Practical part	Biology	Specialized connective tissue	2	11	
Short exams, evaluation of the practical part, and Final exam	Explain the theoretical part using Apply then power point Practical part	Biology	Muscular tissue	2	12	
Short exams, evaluation of the practical part, and Final exam	Explain the theoretical part using Apply then power point Practical part	Biology	Nervous tissue	2	13	
Short exams, evaluation of the practical part, and Final exam	Explain the theoretical part using Apply then power point Practical part	Biology	Stem cells	2	14	
Short exams, evaluation of the practical part, and Final exam	Explain the theoretical part using Apply then power point Practical part	Biology	Exam	2	15	
	Half-year Break					
Evaluation method	Learning method	Topics	Components	hours ساعات		week
Short exams, evaluation of the practical part, and Final exam	Explain the theoretical part using Apply then power point Practical part	Biology	Transport across cell membrane	2	16	

Short exams, evaluation of the practical part, and Final exam	Explain the theoretical part using Apply then power point Practical part	Biology	Cellular metabolism	2	17	
Short exams, evaluation of the practical part, and Final exam	Explain the theoretical part using Apply then power point Practical part	Biology	Cell division(mitosis)	2	18	

Short exams, evaluation of the practical part, and Final exam	Explain the theoretical part using Apply then power point Practical part	Biology	Cell division (meiosis)	2	19	
Short exams, evaluation of the practical part, and Final exam	Explain the theoretical part using Apply then power point Practical part	Biology	Cellular interaction (stable interaction)	2	20	
Short exams, evaluation of the practical part, and Final exam	Explain the theoretical part using Apply then power point Practical part	Biology	Cellular interaction (transient interaction)	2	21	
Short exams, evaluation of the practical part, and Final exam	Explain the theoretical part using Apply then power point Practical part	Biology	Introduction to biotechnology	2	22	
Short exams, evaluation of the practical part, and Final exam	Explain the theoretical part using Apply then power point Practical part	Biology	Introduction to parasitology	2	23	
Short exams, evaluation of the practical part, and Final exam	Explain the theoretical part using Apply then power point Practical part	Biology	Protozoa:sarcodi na	2	24	
Short exams, evaluation of the practical part, and Final exam	Explain the theoretical part using Apply then power point Practical part	Biology	Protozoa:flagella ta	2	25	
Short exams, evaluation of the practical part, and Final exam	Explain the theoretical part using Apply then power point Practical part	Biology	Protozoa:ciliataa nd sporozoa	2	26	
Short exams, evaluation of the practical part, and Final exam	Explain the theoretical part using Apply then power point Practical part	Biology	Platyhelminthes:t rematoda	2	27	
Short exams, evaluation of the practical part, and Final exam	Explain the theoretical part using Apply then power point Practical part	Biology	Platyhelminthes: cestoda	2	28	

Short exams, evaluation of the practical part, and Final exam	Explain the theoretical part using Apply then power point Practical part	Biology	Nematoda	2	29	
Short exams, evaluation of the practical part, and Final exam	Explain the theoretical part using Apply then power point Practical part	Biology	Exam	2	30	

11. course evaluation	
Distributing the grade out of 100 according to the tasks assigned to the student, such as daily preparation, daily oral and written exams, monthly exams, and reports... etc. 15% midterm 25% annual effort (includes summer training, daily and monthly exams, and practical requirements) 20% final practical exam 40% final theoretical exam	
.12 learning sources	
<ul style="list-style-type: none"> Human biology 	The required prescribed books (the methodology if available)
<p>1- 1-Paniker's Textbook of Medical parasitology eight edition(2018)</p> <p>2- Textbook of Histology , (2020) by Leslie P. Gartner , Elsevier Health Sciences, Medical - 704 pages. 17)03- CELL BIOLOGY, Third edition. (2 Thomas. D; William .C; Jennefer. L. and Graham. T. Printed in U.S.A.</p>	Main references (sources)
<ul style="list-style-type: none"> 	Recommended books and supporting references (scientific journals, reports, etc.)
<p>https://openstax.org/books/anatomy-and-physiology/pages/1-introduction</p> <p>https://www.cdc.gov/index.htm</p>	Electronic references, websites

Course Description

Course name: Biology	.64
Code : 108 BL	.65
Year : 2024-2025	.66
Date: 2025/5/	.67

.68	Available attendance options: Attendance in the classroom for the practical subject	
.69	Total study hours (total)/(total units) (total): 60 practical hours/120 study units	
.70	Name of the course coordinator (if there are multiple names, please mention them)	
Assist. lec. Hassanein Ali, may he rest in peace		
hasanain.a.rahma@uruk.edu.iq		
course objectives		.71
<ul style="list-style-type: none"> • Introduction to General Biology • Study of Cell and Tissue Biology • Study of Medical Parasitology 		Objectives
learning strategy		.72
<ul style="list-style-type: none"> • Lecture delivery strategy show)) (data point [power • E-learning strategy • Discussion strategy 		Strategy

course structure (practical)					
Evaluation method	Learning method	Unit name / Course or subject	Course syllabus	Hours	week
Exams Short, next The practical part, and Final	Explanation of the theoretical part Using PowerPoint point and then applying the practical part practical	Biology	Laboratory safety	2	1
Exams Short, next	Using PowerPoint point and then applying the practical part practical Using PowerPoint point and then applying the practical part practical	Biology Biology	Microscope	2	2
The practical part, and Final	Using PowerPoint point and then applying the practical part practical	Biology Biology	Types of animal cells	2	3
Exams Short, next	Using PowerPoint point and then applying the practical part practical	Biology Biology	Bacteriology	2	4
The practical part, and Final	Using PowerPoint point and then applying the practical part practical	Biology Biology	Simple epithelial cells	2	5
Exams Short, next	Using PowerPoint point and then applying the practical part practical	Biology Biology	Stratified epithelial cell	2	6

Exams Short, next The practical part, and Final	Using PowerPoint point and then applying the practical part practical	Biology	Elements of connective tissue	2	7
Exams Short, next The practical part, and Final	Using PowerPoint point and then applying the practical part practical	Biology	Proper connective tissue	2	8
Exams Short, next The practical part, and Final	Using PowerPoint point and then applying the practical part practical	Biology	Specialized connective tissue Bone	2	9
Exams Short, next The practical part, and Final	Using PowerPoint point and then applying the practical part practical	Biology	Specialized connective tissue Cartilage	2	10
Exams Short, next The practical part, and Final	Using PowerPoint point and then applying the practical part practical	Biology	Specialized connective tissue Blood	2	11
Exams Short, next The practical part, and Final	Using PowerPoint point and then applying the practical part practical	Biology	Glandular tissue Part 1	2	12
Exams Short, next The practical part, and Final	Using PowerPoint point and then applying the practical part practical	Biology	Glandular tissue Part 2	2	13

		Biology			
Exams Short, next The practical part, and Final	Using PowerPoint point and then applying the practical part practical	Biology	Muscular tissue	2	14
		Biology			
Exams Short, next The practical part, and Final	Using PowerPoint point and then applying the practical part practical	Biology	Nervous tissue	2	15
		Biology			
Exams Short, next The practical part, and Final	Using PowerPoint point and then applying the practical part practical	Biology	Entamoeba spp	2	16
Exams Short, next The practical part, and Final	Using PowerPoint point and then applying the practical part practical	Biology	<i>Giardia lamblia</i> and <i>Trichomonas</i> spp	2	17
Exams Short, next The practical part, and Final	Using PowerPoint point and then applying the practical part practical	Biology	Leishmania sp	2	18
		Biology			
The practical part, and	Using PowerPoint point and then applying the practical part practical	Biology	Trypanosoma spp	2	19
		Biology			
	Using PowerPoint point and then applying the practical part practical	Biology	Plasmodium spp	2	20

		Biology			
Exams Short, next The practical part, and Final	Using PowerPoint point and then applying the practical part practical	Biology	Balantidium spp	2	21
		Biology			
	Using PowerPoint point and then applying the practical part practical	Biology	<i>Faciola hepatica</i>	2	22
		Biology			
	Using PowerPoint point and then applying the practical part practical	Biology	Schistosoma spp	2	23
		Biology			
Exams Short, next The practical part, and Final	Using PowerPoint point and then applying the practical part practical	Biology	<i>Echinococcus granulosus</i>	2	24
		Biology			
	Using PowerPoint point and then applying the practical part practical	Biology	<i>Taenia saginata</i>	2	25
Exams Short, next The practical part, and Final	Using PowerPoint point and then applying the practical part practical	Biology	<i>Taenia solium</i>	2	26

	Using PowerPoint point and then applying the practical part practical	Biology	Ancylstoma spp	2	27
Exams Short, next The practical part, and Final	Using PowerPoint point and then applying the practical part practical	Biology	Ascaris spp	2	28
	Using PowerPoint point and then applying the practical part practical	Biology	<i>Enterobius vermicularis</i>	2	29
Exams Short, next The practical part, and Final	Using PowerPoint point and then applying the practical part practical	Biology	seminar		30

. 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 course (includes summer training, daily and monthly exams, and practical requirements) %25 20% final practical exam final theoretical exam %40	
.learning sources	
• Human biology	Textbooks

<p>1- 1-Paniker's Textbook of Medical parasitology eight edition(2018)</p> <p>2- Textbook of Histology , (2020) by Leslie P. Gartner , Elsevier Health Sciences, Medical - 704 pages. 17)03- CELL BIOLOGY, Third edition. (2 Thomas. D; William .C; Jennefer. L. and Graham. T. Printed in U.S.A.</p>	<p>Main references (sources)</p>
<p>•</p>	
<p>https://openstax.org/books/anatomy-and-physiology/pages/1-introduction</p> <p>https://www.cdc.gov/index.htm</p>	<p>Electronic references, websites</p>

Course description

.English	
109EL code:	.74
.75	year: 2024-2025
.76	date 2025/5/
attendance form: theoretical lectures	.77
Number of study hours (total/(number of units) (total): 30 hours/60 study	.78 units
administrator (.79
Dr. Hayder latif	
Objectives	.80
<ul style="list-style-type: none"> • Preparing the student to have a high level of proficiency in the English language, which will help him in studying dentistry and textbooks Introducing them to the most important English terms related • to all the systems present in the body of living organisms Teaching and training students on the emergence and growth • of terminology and the difference between words and terms 	Objectives
learning strategy	
	.81
<ul style="list-style-type: none"> • Cooperative learning strategy among students Brainstorming • Double coding (linking words to pictures) • 	Strategy

.10 course structure					
Evaluation method	The learning method is theoretical or practical	Topics	Outcomes	Hour	Week
Daily, monthly, semi-annual and final exams	Theoretical	Prefixes & suffixes	Learn parts Medical terminology	1	1
Daily, monthly, semi-annual and final exams	Theoretical	Integumentary system	Learn related terms With whipping	1	2
Daily, monthly, semi-annual and final exams	Theoretical	Muscular System	Learn English pronunciations related to muscles And movement	1	3
Daily, monthly, semi-annual and final exams	Theoretical	Respiratory System	Learn related terms With the respiratory system	1	4
Daily, monthly, semi-annual and final exams	Theoretical	Digestive System	Learn related terms With the digestive system	1	5
Daily, monthly, semi-annual and final exams	Theoretical	Nervous System	Learn nucleotide terminology Relationship to the nervous system	1	6
Daily, monthly, semi-annual and final exams	Theoretical	Cardiovascular System	Learn related words and terms With the heart and blood vessels	1	7
Daily, monthly, semi-annual and final exams	Theoretical	Blood and Lymph	Know the types of cells in Blood stream In English	1	8
Daily, monthly, semi-annual and final exams	Theoretical	Immune System	Learn about the parts of the immune	1	9

			system Learn about the parts of the immune system		
Daily, monthly, semi- annual and final exams	Theoretical	Endocrine System	The student learns the names of glands In the body	1	10
Daily, monthly, semi- annual and final exams	Theoretical	Five Senses	Knowing the names of the five senses In English	1	11
Daily, monthly, semi- annual and final exams	Theoretical	Genitourinary System	Study of the reproduct ive system And urinary tract in the body	1	12
Daily, monthly, semi- annual and final exams	Theoretical	Dental Terminology Part 1	Knowledge of medical terminolo gy Dental Renewal	1	13
Daily, monthly, semi- annual and final exams	Theoretical	Dental Terminology Part 2	Knowledge of medical terminology Dental Renewal	1	14
Daily, monthly, semi- annual and final exams	Theoretical	Dental terminology Part 3	Knowledge of medical terminology Dental Renewal	1	15
Daily, monthly, semi- annual and final exams	Theoretical	Small Talk	Teaching students in a way Small conversati ons	1	16
Daily, monthly, semi- annual and final exams	Theoretical	Common Mistakes	Learn examples of General errors And how to solve it	1	17

Daily, monthly, semi-annual and final exams	Theoretical	Passive Voice	Study of the building For the unknown	1	18
Daily, monthly, semi-annual and final exams	Theoretical	Direct and Indirect Speech	Knowledge of direct speech And indirect	1	19
Daily, monthly, semi-annual and final exams	Theoretical	Synonyms	Learn synonyms in English	1	20
Daily, monthly, semi-annual and final exams	Theoretical	Adjectives	Know the names Adjectives in English	1	21
Daily, monthly, semi-annual and final exams	Theoretical	Integrating a Quotation into an Essay	Learn transformation and embedding Quote to article	1	22
Daily, monthly, semi-annual and final exams	Theoretical	Prepositions in English Grammar with Examples	Learn prepositions in English language Study the	1	23
Daily, monthly, semi-annual and final exams	Theoretical	Idioms and Phrases	Understanding of phrases and what is meant From her	1	24
Daily, monthly, semi-annual and final exams	Theoretical	Writing Assignments	Learn to write reports In English	1	25
Daily, monthly, semi-annual and final exams	Theoretical	Pronunciation rules	Learn the rules of spelling	1	26
Daily, monthly, semi-annual and final exams	Theoretical	Tenses	Study of tenses in English language	1	27
Daily, monthly, semi-annual and final exams	Theoretical	Synonyms and Antonyms	Study synonyms and antonyms English	1	28

Daily, monthly, semi-annual and final exams	Theoretical	Paraphrasing	Learn to rephrase sentences In	1	29
Daily, monthly, semi-annual and final exams	Theoretical	Essay Writing Skills	Learn writing skills Reports	1	30
.11 course evaluation					
<p style="text-align: center;">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</p> <p style="text-align: right;">half the year %15 annual course (including daily and %15 monthly exams) 70% final theoretical exam</p>					
.12 learning sources					
<ul style="list-style-type: none"> 1.headway intermediate level 			Required textbooks (methodology, if any)		
Medical Terminology 3rd Edition (Charline M Dofka)			Main references (sources)		

Course decription

.82 Dental Material :course name
.83 course code : DM209
.84 year : 2024-2025

.85 Date : 2025/5/	
.86 attendance form: theoretical lectures	
87. Number of study hours (total/(number of units) (total): 30 hours/60 study units.	
88. Name of the course administrator (if more than one name is mentioned)	
Lecturer Samar Sabah Alwan samar_s_alsaffar@uruk.edu.iq	
.89 course objectives	
<ul style="list-style-type: none"> • Learn the physical, chemical and mechanical properties of materials used in dentistry Learn the skills necessary for the correct handling and adaptation of these materials • 	Objectives
.90 learning strategy	
<ul style="list-style-type: none"> •Introducing the student to the various types of materials involved in dentistry •Giving the necessary information to deal with these materials •Giving instructions and following up on the process of using materials, including mixing and following up on the reactions that the material undergoes to reach the end of the reaction •Description of the tools used to prepare all materials •Teaching the student how to use it and following up on it while working 	Strategy

.10. course structure					
Evaluation method	Learning method	Topics		Hours	week
Daily, monthly, semi-annual and final exams	Theoretical	Introduction to dental materials Physical, mechanical, chemical and biological properties of dental materials		1	1
Daily, monthly, semi-annual and final exams	Theoretical	gypsum product Definition,requirement,types: _gypsum bonded investment _phosphate bonded investment _ethyl silicate bonded (composition , properties and manipulation)		1	2

Daily, monthly, semi-annual and final exams	Theoretical	Investment materials factors affecting setting time, setting expansion, strength, storage and manipulation of gypsum products, hygroscopic expansion. table with properties		1	3
Daily, monthly, semi-annual and final exams	Theoretical	Impression materials Definition Ideal properties of impression materials. Classification of impression materials . Non elastic impression materials Impression plaster		1	4
Daily, monthly, semi-annual and final exams	Theoretical	Impression compound - - Zinc oxide -eugenol		1	5
	Theoretical	Elastic impression material		1	6
Daily, monthly, semi-annual and final exams	Theoretical	Elastomeric impression material		1	7
Daily, monthly, semi-annual and final exams	Theoretical	Filling materials Direct filling material Definition Factors causing loss of tooth substance. Requirement of an ideal filling material. Classification of filling material Anterior filling materials -silicate cement. 1 Disadvantages. -acrylic resin .2 Disadvantages		1	8
Daily, monthly, semi-annual and final exams	Theoretical	composite filling materials. Composition and structure. Types of composite -according to methods of 1 curing -classification based on size of 2 filler particles / Filler content Properties		1	9
Daily, monthly, semi-annual and final exams	Theoretical	Posterior filling materials Dental amalgam Classification of amalgam		1	

Daily, monthly, semi-annual and final exams	Theoretical	.alloys Manufacture of alloy powder Aging Spherical powder Composition Low copper High copper admix-1 Unicomposition-2 Low copper alloy Available as Setting reaction High copper alloy Admix alloy powder Setting reaction Unicom position alloy Setting reaction			10
Daily, monthly, semi-annual and final exams	Theoretical	Properties of set amalgam .Dimensional changes -1 . Factor favouring contraction . strength-2 . Factors affecting strength effect of trituration-1 .effect of Hg content-2 . effect of condensation-3 .effect of porosity-4 . effect of rate of hardening-5 . Creep-3 Definition Effect of manipulative variable (for increase strength and low creep . Tarnish and corrosion-4 Definition Factors related to excess tarnish and corrosion Technical consideration Manipulation for amalgam Dispenser Proportion of alloy to Hg Mixing time Condensation Shaping and finishing . Mercury toxicity		1	11
Daily, monthly, semi-annual and final exams	Theoretical	metallic denture base materials, Metal and metal alloy Definition of alloy, requirement of casting alloy, application of dental alloy, classification of metal, classification of dental alloy, gold foil(advantage, disadvantages), gold alloys(composition and properties)		1	12

Daily, monthly, semi-annual and final exams	Theoretical	alternative of gold alloys, metal ceramic alloys(requirement, types), removable denture base alloys(requirements, types), co/cr alloy(application, composition, properties, advantages, disadvantages)		1	13
Daily, monthly, semi-annual and final exams	Theoretical	Titanium and Titanium alloys: Applications, properties, Ni/cr alloys, composition, indications, wrought stainless steel alloy		1	14
Daily, monthly, semi-annual and final exams	Theoretical	Non metallic denture base Polymers and polymerization Definition of polymer ,co-polymer, cross-link polymer, polymerization ,degree of polymerisation . Factors which control structure and properties of polymer. Polymers used in dentistry Types of polymerization		1	15
Daily, monthly, semi-annual and final exams	Theoretical 1	Denture base resin Requirement for clinically acceptable denture base material Old materials used to construct denture The material of choice to use as denture base material Acrylic resin (polymethylmethacrylate) Why it is used nowadays Classification according to initiation reaction Composition of heat cure resin Methyl methacrylate monomer (properties) Polymer/monomer ratio		1	16
Daily, monthly, semi-annual and final exams	Theoretical	Properties of heat-cure acrylic resin Composition of chemically activated resin Compared to heat activated resins Light activated resin Composition Processing errors -porosity1 -crazing2 -warping3 Recent advance		1	17

Daily, monthly, semi-annual and final exams	Theoretical	Waxes Definition, Requirements, classification of wax according to origin & melting point, classification of wax according to uses, properties of dental .waxes		1	18
Daily, monthly, semi-annual and final exams	Theoretical	Temporary filling Definition, indication, .Requirements, Types		1	19
Daily, monthly, semi-annual and final exams	Theoretical	Cements Classification of dental cements, Definition, Requirements		1	20
Daily, monthly, semi-annual and final exams	Theoretical	Tissue conditioner Definition, Types, Requirements, indication. Soft liners Types: Requirements, .indication, properties		1	21
Daily, monthly, semi-annual and final exams	Theoretical	Polishing and Abrasives Definition, factors affecting finishing and polishing, Types, and indication for each. Denture cleaners: Types, - Requirements		1	22
.11 course evaluation					
<p>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.</p> <p>%15half the year</p> <p>%25annual course (includes summer training, daily and monthly exams, and practical requirements) 20% final practical exam</p> <p>%40final theoretical exam</p>					
.12 learning sources					
<ul style="list-style-type: none"> Phillips applied dental material Restorative dental material Dental material their selection and use 			Required textbooks (methodology, if any)		
<ul style="list-style-type: none"> Phillips applied dental material Restorative dental material 			Main references (sources)		
<ul style="list-style-type: none"> Introduction to Dental Materials 			Recommended supporting books and references (scientific journals, reports)		

course description

Course Name: Dental Materials	
.92	Course code : DM209
.93	Year : 2024-2025
.94	Date: 2025/5/
.95 The date of preparation of this description is /5/2025	
95 Available forms of attendance: Attendance in the study laboratory for the practical subject	
96. Number of study hours (total/(number of units) (total): 60 hours/120 study units.	
97. Administrator name	
Assist. Lec. Yasir M. Abid Yassirmohamed@uruk.edu.iq	
.98 course objectives	
<ul style="list-style-type: none"> Learn the physical, chemical and mechanical properties of materials used in dentistry • Learn the skills necessary for the correct handling and adaptation of these materials • 	Objectives
.99 learning strategy	
<ul style="list-style-type: none"> Introducing the student to the various types of materials involved in dentistry • Giving the necessary information to deal with these materials • Giving instructions and following up on the process of using materials, including mixing and following up on the reactions that the material undergoes to reach the end of the reaction • Description of the tools used to prepare all materials • Teaching the student how to use it and following up on it while working • 	Strategy
.10 course structure	

Evaluation method	Learning method	Topics		Hours	week
Daily, monthly, semi-annual and final exams	Practical	Introduction to dental materials Physical, mechanical, chemical and biological properties of dental materials		1	23
Daily, monthly, semi-annual and final exams	Practical	gypsum product Definition,requirement,types: _gypsum bonded investment _phosphate bonded investment _ethyl silicate bonded (composition , properties and manipulation)		1	24
Daily, monthly, semi-annual and final exams	Practical	Investment materials factors affecting setting time,setting expansion,strength,storage and manipulation of gypsum products,hygroscopic expansion.table with properties		1	25
Daily, monthly, semi-annual and final exams	Practical	Impression materials Definition Ideal properties of impression materials. Classification of impression materials . Non elastic impression materials Impression plaster		1	26
Daily, monthly, semi-annual and final exams	Practical	Impression compound - - Zinc oxide -eugenol		1	27
Daily, monthly, semi-annual and final exams	Practical	Elastic impression material		1	28
Daily, monthly, semi-annual and final exams	Practical	Elastomeric impression material		1	29
Daily, monthly, semi-annual and final exams	Practical	Filling materials Direct filling material Definition Factors causing loss of tooth substance. Requirement of an ideal filling material. Classification of filling material		1	

Daily, monthly, semi-annual and final exams		Anterior filling materials -silicate cement.1 Disadvantages. -acrylic resin .2 Disadvantages			30
Daily, monthly, semi-annual and final exams	Practical	composite filling materials. Composition and structure. Types of composite -according to methods of 1 curing -classification based on size of 2 filler particles / Filler content Properties		1	31
Daily, monthly, semi-annual and final exams	Practical	Posterior filling materials Dental amalgam Classification of amalgam .alloys Manufacture of alloy powder Aging Spherical powder Composition Low copper High copper admix-1 Unicomposition-2 Low copper alloy Available as Setting reaction High copper alloy Admix alloy powder Setting reaction Unicom position alloy Setting reaction		1	32

Daily, monthly, semi-annual and final exams	Practical	<p>Properties of set amalgam .Dimensional changes -1 . Factor favouring contraction . strength-2 . Factors affecting strength effect of trituration-1 .effect of Hg content-2 . effect of condensation-3 .effect of porosity-4 . effect of rate of hardening-5 . Creep-3 Definition Effect of manipulative variable (for increase strength and low creep . Tarnish and corrosion-4 Definition Factors related to excess tarnish and corrosion</p> <p>Technical consideration Manipulation for amalgam Dispenser Proportion of alloy to Hg Mixing time Condensation Shaping and finishing . Mercury toxicity</p>		1	33
Daily, monthly, semi-annual and final exams	Practical	<p>metallic denture base materials, Metal and metal alloy Definition of alloy, requirement of casting alloy, application of dental alloy, classification of metal, classification of dental alloy, gold foil(advantage, disadvantages), gold alloys(composition and properties)</p>		1	34
Daily, monthly, semi-annual and final exams	Practical	<p>alternative of gold alloys, metal ceramic alloys(requirement, types), removable denture base alloys(requirements, types), co/cr alloy(application, composition, properties, advantages, disadvantages)</p>		1	35
Daily, monthly, semi-annual and final exams	Practical	<p>Titanium and Titanium alloys: Applications, properties, Ni/cr alloys, composition, indications, wrought stainless steel alloy</p>		1	36
Daily, monthly, semi-annual and final exams	Practical	<p>Non metallic denture base Polymers and polymerization Definition of polymer ,co-polymer, cross-link polymer, polymerization ,degree of polymerisation . Factors which control structure and properties of polymer. Polymers used in dentistry Types of polymerization</p>		1	37

Daily, monthly, semi-annual and final exams	Practical	Denture base resin Requirement for clinically acceptable denture base material Old materials used to constrict denture The material of choice to use as denture base material Acrylic resin (polymethylmethacrylate) Why it is used nowadays Classification according to initiation reaction Composition of heat cure resin Methyl methacrylate monomer (properties) Polymer/monomer ratio		1	38
Daily, monthly, semi-annual and final exams	Practical	Properties of heat cure Composition of chemically activated resin Compared to heat activated resins Light activated resin Composition Processing errors -porosity ¹ -crazing ² -warpage ³ Recent advance		1	39
Daily, monthly, semi-annual and final exams		Waxes Definition, Requirements, classification of wax according to origin & melting point, classification of wax according to uses, properties of dental waxes		1	40
Daily, monthly, semi-annual and final exams	Practical	Temporary filling Definition, indication, Requirements, Types		1	41
Daily, monthly, semi-annual and final exams	Practical	Cements Classification of dental cements, Definition, Requirements		1	42
Daily, monthly, semi-annual and final exams	Practical	Tissue conditioner Definition, Types, Requirements, indication. Soft liners Types: Requirements, indication, properties		1	43
Daily, monthly, semi-annual and final exams	Practical	Polishing and Abrasives Definition, factors affecting finishing and polishing, Types, and indication for each. Denture cleaners: Types, - Requirements		1	44
.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.

%15half the year

%25annual course (includes summer training, daily and monthly exams, and practical requirements) 20% final practical exam

%40final theoretical exam

.12 learning method

<ul style="list-style-type: none"> • Phillips applied dental material • Restorative dental material • Dental material their selection and use 	<p>Required textbooks (methodology, if any)</p> <p>.....</p>
<ul style="list-style-type: none"> • Phillips applied dental material • Restorative dental material 	<p>Main references (sources)</p>
<ul style="list-style-type: none"> • Introduction to Dental Materials 	<p>Recommended supporting books and references (scientific journals, reports)</p>

Course description

.100 course name: prosthetics

.101 course code : 210PR

.102 Year: 2024-2025

.103 Date: 2025/5/

. 104 Available forms of attendance: Permanent attendance in the hall

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

. 106 Name of the course administrator (if more than one name is mentioned)	
samar_s_alsaffar@uruk.edu.iq	.assist. lec. a Samar Sabah Alwan
.107. course objectives	
<ul style="list-style-type: none"> • Introducing the dental industry subject in general, as it is one of the most important subjects that the student will continue to study for four consecutive years • Defining the terms that will be used in explaining the course so that the student can understand them correctly <p>The practical steps that the student will follow to make the complete kit •</p>	Objectives
.108 Teaching and learning strategies	
<ul style="list-style-type: none"> • Displaying the theoretical material and explaining it in detail on the smart screen. • Use the stimulus and response method • Urging students to use thinking and problem-solving skills • Creating a spirit of scientific competition among students through direct and indirect questions related to the subject <p>Scientific</p>	Strategy

10. course structure

Evaluation method	The learning method is theoretical or practical	Name of the unit or topic	Hours	Week
Daily, monthly, semi-annual and final exams	Theoretical 1 lectures by using power point program	Introduction Complete denture	2	2 + 1
Daily, monthly, semi-annual and final exams	Theoretical 1 lectures by using power point program	Anatomical landmarks ■ Maxillary and Mandibular arch anatomical landmarks	2	4 + 3
Daily, monthly, semi-annual and final exams	Theoretical 1 lectures by using power point program	Complete denture impression	2	6 + 5

Daily, monthly, semi-annual and final exams	Theoretical lectures by using power point program	Temporomandibular joint (TMJ)	2	8 + 7
Daily, monthly, semi-annual and final exams	Theoretical lectures by using power point program	Method of recording rest vertical dimension	2	10 + 9
Daily, monthly, semi-annual and final exams	Theoretical lectures by using power point program	Dental Articulators	2	+ 11 12
Daily, monthly, semi-annual and final exams	Theoretical lectures by using power point program	Mounting	1	13
Daily, monthly, semi-annual and final exams	Theoretical lectures by using power point program	Selection of anterior teeth	1	14
Daily, monthly, semi-annual and final exams	Theoretical lectures by using power point program	Selection of Posterior Teeth	2	+ 15 16
Daily, monthly, semi-annual and final exams	Theoretical lectures by using power point program	Arrangement of Artificial Teeth.	2	+ 17 18
Daily, monthly, semi-annual and final exams	Theoretical lectures by using power point program	Arrangement of Posterior Teeth	1	19
Daily, monthly, semi-annual and final exams	Theoretical lectures by using power point program	Waxing and Carving Complete Denture Occlusion	3	+ 20 + 21 22
Daily, monthly, semi-annual and final exams	Theoretical lectures by using power point program	Processing of The Denture (Flasking)	1	24 +23
Daily, monthly,		Occlusal Correction		

semi-annual and final exams	Theoretical lectures by using power point program	Finishing And Polishing Of Complete Denture	2	+ 25 26	
Daily, monthly, semi-annual and final exams	Theoretical lectures by using power point program	Repair of Complete Denture	1	72	
Daily, monthly, semi-annual and final exams	Theoretical lectures by using power point program	Repair of Complete Denture	1	28	
Daily, monthly, semi-annual and final exams	Theoretical lectures by using power point program	Relining And Rebasing	1	29	
Daily, monthly, semi-annual and final exams	Theoretical lectures by using power point program	Relining And Rebasing		1	30
11. تقييم المقرر					
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 course (includes summer training, daily and monthly %25 exams, and practical requirements) 25% final practical exam final theoretical exam %35					
12. Learning and teaching resources					
• Textbook of complete denture 6th edition updated 2009 Dental laboratory technology for removable prosthodontics			Required textbooks		
Textbooks + internet sources			Main references (sources)		
Dental Clinics of north America			Recommended supporting books and references (scientific journals, reports)...		
<ul style="list-style-type: none"> Articles • S. Yamashita, M. Shimizu, and H. Katada, "A newly proposed method to predict optimum occlusal vertical dimension," Journal of Prosthodontics, vol. 24, no. 4, pp. 287–290, 2015. 			Electronic references, websites		
<ul style="list-style-type: none"> Classification System for Complete Edentulism (https://onlinelibrary.wiley.com/doi/10.1111/j.1532-849X.1999.tb00005.x) 					

Course description

109 course name Prosthodontics

110. course code : 210PR
111.Year : 2024-2025
112. Date the description was prepared 2025/5/
113Available forms of attendance : Attendance in the laboratory
120 . Number of study hours (total/(number of units) (total): hours/4 study units 114.

115. Name of the course administrator (if more than one name is mentioned)	
Assist. Lec. Shaymaa Majed	
.116 course objectives	
Introduction, including the media industry in general, has become one of the most important subjects that the student will continue for four consecutive years Introducing the terms that will be used in explaining the course so that the student can understand them correctly The next steps that the student follows to create the complete design •	Objectives
. 117 Teaching and learning strategies	
Introducing the student to the various types of materials involved in dentistry • Giving the necessary information to deal with these materials • Giving instructions and following up on the process of using materials, including mixing and following up on the reactions that the material undergoes to reach the end of the reaction • Description of the tools used to prepare all materials • Teaching the student how to use it and following up on it while working • •	Strategy

10. Course structure

Evaluation method	The learning method is theoretical or practical	Name of the unit or topic		Hours	week
Daily, monthly, semi-annual and final exams	Theoretical lectures by using power point program	Introduction Complete denture Objective of complete denture General consideration in complete denture construction Complete denture component parts. Anatomical landmarks Maxillary arch anatomical landmarks <input type="checkbox"/> Supporting structures <input type="checkbox"/> Limiting structures <input type="checkbox"/> Relief areas		2	2 + 1
Daily, monthly, semi-annual and final exams	Theoretical lectures by using power point program	Anatomical landmarks Mandibular arch anatomical landmarks <input type="checkbox"/> Supporting structures <input type="checkbox"/> Limiting structures <input type="checkbox"/> Relief areas.		2	4 + 3
	Theoretical lectures by using power point program	Impression tray - Definition <input type="checkbox"/> Parts of the impression tray <input type="checkbox"/> Types of tray <input type="checkbox"/> Stock tray – Definition <input type="checkbox"/> Types of stock trays <input type="checkbox"/> Factors effect in selection of stock tray			

Daily, monthly, semi-annual and final exams	Theoretical lectures by using power point program	Special tray <input type="checkbox"/> Advantages of special tray <input type="checkbox"/> Materials used for construction of special tray <input type="checkbox"/> Types of special tray Techniques or methods for construction of special tray <input type="checkbox"/> Criteria for special tray construction. <input type="checkbox"/> Complete denture impression - Definition <input type="checkbox"/> Objective of impression making <input type="checkbox"/> Primary impression - Definition <input type="checkbox"/> Materials used for making primary impression <input type="checkbox"/> Primary cast - Definition <input type="checkbox"/> Production of study cast <input type="checkbox"/> Secondary impression Definition - <input type="checkbox"/> Master cast- Definition <input type="checkbox"/> Materials used for final impression <input type="checkbox"/> Technique used for making final impression <input type="checkbox"/> Boxing an impression and making the casts <input type="checkbox"/> Advantages of boxing <input type="checkbox"/> Common fault in impression making. Digital impression advantages and disadvantages		2	6 + 5
Daily, monthly, semi-annual and final exams	Theoretical lectures by using power point program	Temporomandibular joint (TMJ) – Definition <input type="checkbox"/> Ligaments <input type="checkbox"/> Muscles. Mandibular axes and mandibular movements <input type="checkbox"/> Knowledge of mandibular movements <input type="checkbox"/> Mandibular movements		2	8 + 7
Daily, monthly, semi-annual and final exams	Theoretical lectures by using power point program	Method of recording rest vertical dimension <input type="checkbox"/> Method of recording occlusal vertical dimension <input type="checkbox"/> Pre – extraction records <input type="checkbox"/> Methods without pre – extraction record		2	10 + 9
Daily, monthly, semi-annual and final exams	Theoretical lectures by using power point program	Dental Articulators (Classification & Digital		2	+ 11 12

	Theoretical lectures by using power point program	computerized articulator programming) Dental articulator <input type="checkbox"/> Definition <input type="checkbox"/> Functions of articulator <input type="checkbox"/> Requirements of articulator <input type="checkbox"/> Types of articulator. Face- bow <input type="checkbox"/> Definition <input type="checkbox"/> Parts of face – bow <input type="checkbox"/> Types of face – bow <input type="checkbox"/> Important of the face-bow			
Daily, monthly, semi-annual and final exams	Theoretical lectures by using power point program	Mounting <input type="checkbox"/> Definition <input type="checkbox"/> Preparation of articulator <input type="checkbox"/> Preparation of the casts and mounting the upper cast on CL II articulator <input type="checkbox"/> Mounting the lower cast <input type="checkbox"/> Errors occurred during mounting		1	13
Daily, monthly, semi-annual and final exams	Theoretical lectures by using power point program	Selection of anterior teeth <input type="checkbox"/> The factors of shade selection <input type="checkbox"/> Size selection a. Length b. Width <input type="checkbox"/> Form selection <input type="checkbox"/> Materials of anterior teeth <input type="checkbox"/> Difference between acrylic and porcelain teeth		1	14
Daily, monthly, semi-annual and final exams	Theoretical lectures by using power point program	Selection Of Posterior Teeth		2	+ 15 16
Daily, monthly, semi-annual and final exams	Theoretical lectures by using power point program	Arrangement Of Artificial Teeth. Guideline of artificial teeth arrangement <input type="checkbox"/> Arrangement of anterior teeth <input type="checkbox"/> Arrangement of upper anterior teeth		2	+ 17 18
Daily, monthly, semi-annual and final exams	Theoretical lectures by using power point program	Arrangement Of Posterior Teeth Curve of Spee <input type="checkbox"/> Compensatory curves <input type="checkbox"/> Arrangement of lower posterior teeth <input type="checkbox"/> Arrangement of upper posterior teeth <input type="checkbox"/> Common errors in arrangement of teeth		1	19

Daily, monthly, semi-annual and final exams	Theoretical lectures by using power point program	Waxing And Carving Waxing <input type="checkbox"/> Definition <input type="checkbox"/> Requirements of waxing the polish surfaces		3	+ 20 + 21 22
	Theoretical lectures by using power point program	<input type="checkbox"/> The procedure of waxing <input type="checkbox"/> Establishing the posterior palatal seal area <input type="checkbox"/> Procedure for carving of posterior palatal seal area <input type="checkbox"/> Advantages of posterior palatal seal <input type="checkbox"/> Esthetic consideration in complete denture. Complete Denture Occlusion Occlusion <input type="checkbox"/> Occlusion of complete denture <input type="checkbox"/> Centric occlusion <input type="checkbox"/> Centric relation. Eccentric occlusion <input type="checkbox"/> Concepts of complete denture occlusion <input type="checkbox"/> Try-in appointment			
Daily, monthly, semi-annual and final exams	Theoretical lectures by using power point program	Processing Of The Denture (Flasking) Flasking of the denture <input type="checkbox"/> Flasking techniques		1	23
Daily, monthly, semi-annual and final exams	Theoretical lectures by using power point program	Occlusal Correction Causes of errors in occlusion <input type="checkbox"/> Selective grinding <input type="checkbox"/> Correction of occlusal errors <input type="checkbox"/> Disadvantages of intra oral correction – <input type="checkbox"/> Advantages of extra – oral correction. Finishing And Polishing Of Complete Denture		2	+ 24 25
Daily, monthly, semi-annual and final exams	Theoretical lectures by using power point program	Repair Of Complete Denture Types of material used in repair <input type="checkbox"/> Causes of denture fracture <input type="checkbox"/> Types of repair <input type="checkbox"/> Laboratory procedure for repairing fractured denture base		1	26
Daily, monthly, semi-annual and final exams	Theoretical lectures by using power point program	Repair Of Complete Denture Replacement of broken or missing tooth <input type="checkbox"/> Replacement of missing or lost part <input type="checkbox"/> Requirement of repair		2	+ 27 28

Daily, monthly, semi-annual and final exams	Theoretical lectures by using power point program	Relining And Rebasing Indication for relining or rebasing □ Relining □ Contraindications of relining and rebasing □ The impression techniques for relining and rebasing		1	29
Daily, monthly, semi-annual and final exams	Theoretical lectures by using power point program	Relining And Rebasing Laboratory procedures for relining □ Rebasing □ The chair – side reline technique		1	30
.11 course evaluation					
Distribution of a score out of 100 according to the student’s choice for daily preparation, daily, oral and monthly exams, editing, reports...etc. %15half the year %25per year (includes summer training, report and monthly exams, and practical requirements) 25% final practical exam %35final evaluation					
12. Learning and teaching resources					
• Textbook of complete denture 6th edition updated 2009 Dental laboratory technology for removable prosthodontics			Required textbooks		
Textbooks + internet sources			Main references (sources)		
Dental Clinics of north America • Articles • S. Yamashita, M. Shimizu, and H. Katada, “A newly proposed method to predict optimum occlusal vertical dimension,” Journal of Prosthodontics, vol. 24, no. 4, pp. 287–290, 2015.			Recommended supporting books and references (scientific journals, reports)...		
• Classification System for Complete Edentulism (https://onlinelibrary.wiley.com/doi/10.1111/j.1532-849X.1999.tb00005.x)			Electronic references, websites		

Course description

118. Course name: Oral histology and embryology
119. Course code: OH215 211EL
120. Semester/year: 2024-2025

121 The date of preparation of this description is /5/2025

122. Available forms of attendance: Attendance in the classroom for the theoretical subject

123. Number of study hours (total/(number of units) (total): 60 theoretical hours/120 study units practical hours (2 credits) 120
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124. Name of the course administrator (if more than one name is mentioned)
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Prof . Ghada Musa Mustafa Ghadamoosa@uruk.edu.iq Assist. Lec. Ibrahim Fouad Muhammad Ibrahim.f.mohamed@uruk.edu.iq

125 course objectives

<p>□ Preparing dental students with knowledge and skills to characterize oral tissues, use advanced staining techniques, and understand histological examination</p> <ul style="list-style-type: none"> • Objectives : • Understand and distinguish different oral tissues. • Mastering the use of staining techniques for diagnostic purposes. • Acquire skills in tissue cutting techniques 	Objectives
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126 learning strategy

<ul style="list-style-type: none"> • Methods: • Interactive lectures using PowerPoint. • Students' interaction in scientific discussions and seminars. • Structure of the course: • A detailed weekly schedule covering topics such as biopsy techniques, dental caries, pulp pathology, periapical diseases, and more. Each topic will be presented through PowerPoint lectures, in addition to practical sessions and assessments through short quizzes, midterm exams, and comprehensive final exams. 	Strategy
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.10 course description					
Evaluation method	Learning method	Topics		Hours	week
Daily, monthly, semi-annual and final exams	Theoretical lectures by using power point program	Embryogenesis: first week, ovulation, fertilization and implantation		2	1
Daily, monthly, semi-annual and final exams	Theoretical lectures by using power point program	2nd week,Bilaminar germ layer		2	2
Daily, monthly, semi-annual and final exams	Theoretical lectures by using power point program	3rd week trilaminar germ layer: gastrulation and neurulation		2	3
Daily, monthly, semi-annual and final exams	Theoretical lectures by using power point program	(Development of head and neck(pharyngeal arch,pouch & cleft		2	4
Daily, monthly, semi-annual and final exams	Theoretical lectures by using power point program	Development of face and anomalies		2	5
Daily, monthly, semi-annual and final exams	Theoretical lectures by using power point program	Development of tongue and anomalies		2	6
Daily, monthly, semi-annual and final exams	Theoretical lectures by using power point program	Development of palate and anomalies		2	7
Daily, monthly, semi-annual and final exams	Theoretical lectures by using power point program	Slide preparation		2	8
Daily, monthly, semi-annual and final exams	Theoretical lectures by using power point program	Tooth development and developmental disturbances of teeth		2	9
Daily, monthly, semi-annual and final exams	Theoretical lectures by using power point program	Dentinogenesis and dentin structure		2	10
Daily, monthly, semi-annual and final exams	Theoretical lectures by using power point program	Amelogenesis, Enamel structures		2	11
Daily, monthly, semi-annual and final exams	Theoretical lectures by using power point program	Clinical consideration for dentin and enamel		2	12

Daily, monthly, semi-annual and final exams	Theoretical lectures by using power point program	Dental Pulp		2	13
Daily, monthly, semi-annual and final exams	Theoretical lectures by using power point program	Cementum and clinical consideration		2	14
Daily, monthly, semi-annual and final exams	Theoretical lectures by using power point program	Root formation& Cementogenesis		2	15
Daily, monthly, semi-annual and final exams	Theoretical lectures by using power point program	Periodontal ligaments		2	16
Daily, monthly, semi-annual and final exams	Theoretical lectures by using power point program	Principles fiber of pdl and gingival fibers		2	17
Daily, monthly, semi-annual and final exams	Theoretical lectures by using power point program	Alveolar bone		2	18
Daily, monthly, semi-annual and final exams	Theoretical lectures by using power point program	Bone formation and resorption		2	19
Daily, monthly, semi-annual and final exams	Theoretical lectures by using power point program	Proteins involve in mineralization of bone and dentin		2	20
Daily, monthly, semi-annual and final exams	Theoretical lectures by using power point program	Oral mucosa and their types		2	21
Daily, monthly, semi-annual and final exams	Theoretical lectures by using power point program	Gingiva and dentogingival junction		2	22
Daily, monthly, semi-annual and final exams	Theoretical lectures by using power point program	Eruption of teeth		2	23
Daily, monthly, semi-annual and final exams	Theoretical lectures by using power point program	Shedding of teeth		2	24
Daily, monthly, semi-annual and final exams	Theoretical lectures by using power point program	Salivary gland		2	25

Daily, monthly, semi-annual and final exams	Theoretical lectures by using power point program	Salivary proteins		2	26
Daily, monthly, semi-annual and final exams	Theoretical lectures by using power point program	TMJ		2	27
Daily, monthly, semi-annual and final exams	Theoretical lectures by using power point program	Maxillary sinus		2	28
Daily, monthly, semi-annual and final exams	Theoretical lectures by using power point program	Histochemistry		2	29
Daily, monthly, semi-annual and final exams	Theoretical lectures by using power point program	Age changes of soft and hard tissues		2	30
.11 evaluation method					
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. 15% midterm 25% annual effort (includes summer training, daily and monthly exams, and practical requirements) 20% final practical exam 40% final theoretical exam					
.12 learning outcome					
<ul style="list-style-type: none"> • Ten cates oral histology(Nanci,A.2017) • Orbans oral histology and embryology(Kumar.2015) • Oral anatomy, histology and embryology(Berkovittiz.2018) • 			Required textbooks (methodology if available)		

Lab number	Laboratory sessions		Hours
1	Preparation of the histological section	Data show and microscopical slides	2
2	Early tooth development (bud and cap stage)	Data show and	2

		microscopical slides	
3	Tooth development (bell stage)	Data show and microscopical slides	2
4	Developmental disturbances of Teeth	Data show and microscopical slides	2
5	Dentinogenesis	Data show and microscopical slides	2
6	Dentin structure	Data show and microscopical slides	2
7	Clinical consideration in Dentin	Data show and microscopical slides	2
8	Amelogenesis	Data show and microscopical slides	2
9	Enamel structure	Data show and microscopical slides	2
10	Clinical consideration in Enamel structure	Data show and	2

		microscopical slides	
11	Pulp	Data show and microscopical slides	2
12	Root formation	Data show and microscopical slides	2
13	Cementogenesis	Data show and microscopical slides	2
14	Cementum	Data show and microscopical slides	2
15	Periodontal ligament	Data show and microscopical slides	2
16	Clinical consideration in Periodontal ligament	Data show and microscopical slides	2
17	Bone structures and development	Data show and microscopical slides	2
18	Alveolar bone (process)	Data show and	2

		microscopical slides	
19	Oral mucous membrane	Data show and microscopical slides	2
20	Types of oral mucous membrane	Data show and microscopical slides	2
21	Clinical consideration in mucous membrane	Data show and microscopical slides	2
22	Dentogingival junction (junctional epithelium)	Data show and microscopical slides	2
23	Eruption of teeth	Data show and microscopical slides	2
24	Clinical consideration in Eruption of teeth	Data show and microscopical slides	2
25	Shedding of deciduous teeth	Data show and microscopical slides	2
26	Salivary gland	Data show and	2

		microscopical slides	
27	Clinical consideration in Salivary gland	Data show and microscopical slides	2
28	Maxillary sinus	Data show and microscopical slides	2
29	Tempromandibular joint	Data show and microscopical slides	2
30	Histochemistry of oral tissue	Data show and microscopical slides	2
Total			60

Course description

.127	course name: Biochemistry
.128	course code : 212BC
.129	year : 2024-2025
.130	Date: 2025/5/

.131	Attendance form : Attendance in the classroom for the theoretical subject
Number of study hours (total) / (number of units (total): 60 hours of theory / 4 units of theory .132	

.133 Name of the course administrator (if more than one name is mentioned)	
Dr. Rahim Sabbar Jabr raheem.s.jebur@uruk.edu.iq	
.134 Objectives Course	
<ul style="list-style-type: none"> • 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. 	Objectives
.135 Teaching strategy	
<ul style="list-style-type: none"> • 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. 	Strategy

10. course structure

Evaluation method	Teaching method	Topic name	Learning outcome	Hours	week
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 exams And semi-annual and final	Theoretical lecture using PowerPoint PowerPoint	Biochemistry	Chemistry of proteins and amino acids	2	10
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

Exam	Theoretical lecture using PowerPoint PowerPoint	Biochemistry	Exam	2	15
	Mid Exam				16
Daily and monthly exams And semi-annual and final	Theoretical lecture using PowerPoint PowerPoint	Biochemistry	Metabolism of Lipid: oxidation of Fatty Acids	2	17
Daily and monthly exams And semi-annual and final	Theoretical lecture using PowerPoint PowerPoint	Biochemistry	Biosynthesis of Fatty Acids	2	18
Daily and monthly exams And semi-annual and final	Theoretical lecture using PowerPoint PowerPoint	Biochemistry	Integration of metabolism of carbohydrates, lipid ,and Proteins	2	19
Daily and monthly exams And semi-annual and final	Theoretical lecture using PowerPoint PowerPoint	Biochemistry	Metabolism of minerals and trace elements	2	20
Daily and monthly exams And semi-annual and final	Theoretical lecture using PowerPoint PowerPoint	Biochemistry	Trace elements disorder	2	21
Daily and monthly exams And semi-annual and final	Theoretical lecture using PowerPoint PowerPoint	Biochemistry	Detoxification	2	22
Daily and monthly exams And semi-annual and final	Theoretical lecture using PowerPoint PowerPoint	Biochemistry	Chemistry of Nucleotides	2	23
Daily and monthly exams And semi-annual and final	Theoretical lecture using PowerPoint PowerPoint	Biochemistry	Metabolism of purines and pyrimidines	2	24
Daily and monthly exams And semi-annual	Theoretical lecture using PowerPoint PowerPoint	Biochemistry	Calcium , phosphate and magnesium	2	25

and final					
Daily and monthly exams And semi-annual and final	Theoretical lecture using PowerPoint PowerPoint	Biochemistry	Biochemistry of teeth	2	26
Daily and monthly exams And semi-annual and final	Theoretical lecture using PowerPoint PowerPoint	Biochemistry	Biochemical features of saliva	2	27
Daily and monthly exams And semi-annual and final	Theoretical lecture using PowerPoint PowerPoint	Biochemistry	Chemistry of hormones	2	28
Daily and monthly exams And semi-annual and final	Theoretical lecture using PowerPoint PowerPoint	Biochemistry	Hormones Disorders	2	29

Daily and monthly exams And semi-annual and final	Theoretical lecture using PowerPoint PowerPoint	Biochemistry	Exam	2	30
Total	60				

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, 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

12. teaching and learning methods

- **Textbook of Biochemistry for dental/Nursing/Pharmacy Students:3rd Ed. MN Chatterjea.2009.**

Required textbooks (curriculum if available)

References:

- 1- Lippincott Illustrated Reviews Biochemistry th Ed 2017.
- 2- Marton crook: Clinical Biochemistry and metabolic medicine; 2012.

Main references (sources)

1. **textbook of medical biochemistry 8th Ed JAYPEE.**

The recommended supporting books and references (scientific journals, (.....

Course Description

1. Course name : Biochemistry
.2 Course code : 212 BC
.3 Year : 2024-2025
.4 Date: 2025/5/
.5 Attendance form: Attendance in the lab for the practical subject

. 6 total credit hours (total units): 60 hours (practical) / 2 credit units		
7 Name of the course coordinator (if more than one name is mentioned)		
Assist. Lec. Ahmad Abbas Mahawi		
.8 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	Objectives	
.9. learning method		
• 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.	Strategy	

Syllabus					
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 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	Sample collection-1	2	2
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	Sample collection -2	2	3
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	Spectrophotometer	2	4
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	Standard curve	2	5
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	Blood glucose+ HbA1c	2	6
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	Total Protein	2	7
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	Albumin+ Globulin	2	8
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	Troponin	2	9
Daily and final exams, practical lab activities It involves writing and correcting experiment	Theoretical-practical lecture using the Point Power program, with an experiment Practical session and	Biochemistry	Liver function test (Bilirubin)	2	10

reports.	presentation of educational videos				
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	Alkaline Phosphatase	2	11
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	Transaminases (ALT&AST)	2	12
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	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 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
	Final exam				
.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, and written exams, and reports... etc. 7% annual effort (including daily and monthly exams and practical requirements) 20% final practical exam					
.12 learning sources					
1- Crook Martin.Clinical Biochemistry and Metabolic Medicine 2- Burits,A. Carl.Bruns, E. David .Tietz Fundamentals of Clinical chemistry and Molecular Diagnostics.		textbooks			

Course description

Course name : general histology	.136
213 GH Course code:	.137
2024-2025 Year	.138
Date 2025/5/	.139
Attendance form: theoretical lectures	.140

.141 Total study hours (overall)/(total units): 60 theoretical hours / 4 units for the theoretical	
administrator name .142	
lec. Dr. Jafar Sadiq Maki Hadi	
course objectives .143	
<ul style="list-style-type: none"> • 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 • To teach students the practical and theoretical applications of various general body tissues and all body organs • Familiarization with histological medical terminology Enabling the student to possess sufficient medical knowledge in general histology. 	Objectives
learning and teaching strategy .144	
<ul style="list-style-type: none"> • A detailed study of basic tissues, which will provide the key to understanding the histological sections of each organ in the human body, and enhancing this study using the light microscope to give students complete information about the histological characteristics of those organs in the human body. • Lectures using PowerPoint program • Showing educational videos. Guiding students to some websites for their benefit. 	Strategy

10.course structure					
Evaluation method	Learning method	Topic name	Learning outcomes	Hours	week
Daily, monthly, and mid-term exams Annual and final	Theoretical lecture using the program PowerPoint	General Histology	Cells, Cell division, Extracellular materials, Intercellular junction, Basic tissue properties, Basic tissue classification.	2	1
Daily, monthly, and mid-term exams Annual and final	Theoretical lecture using the program PowerPoint	General Histology	Epithelium properties, Epithelium histology, Epithelium classification, Epithelium regeneration, turnover, and repair, Basement membrane.	2	2
Daily, monthly, and mid-term exams Annual and final	Theoretical lecture using the program PowerPoint	General Histology	Connective tissue histology, Connective tissue classification, Connective tissue ,proper, regeneration turnover, and repair, Clinical considerations with skin aging, Specialized connective tissue, Muscle properties.	2	3
Daily, monthly, and mid-term exams Annual and final	Theoretical lecture using the program PowerPoint	General Histology	Conducting portion: Nasal cavity, Nasopharynx, Larynx, Trachea, Bronchi, Bronchioles, and Terminal bronchioles.	2	4
Daily, monthly, and mid-term exams Annual and final	Theoretical lecture using the program PowerPoint	General Histology	Respiratory portion: Respiratory bronchioles, Alveolar ducts, Alveoli, Lung vasculature and neves , Pleura.	2	5
Daily, monthly, and mid-term exams Annual and final	Theoretical lecture using the program PowerPoint	General Histology	Urinary System: kidney nephrons, collecting tubules and ducts	2	6
Daily, monthly, and mid-term exams Annual and final	Theoretical lecture using the program PowerPoint	General Histology	Urinary System: ureter, urinary	2	7

			bladder, and male and female urethra		
Daily, monthly, and mid-term exams Annual and final	Theoretical lecture using the program PowerPoint	General Histology	Integumentary System: skin: epidermis, dermis Thick skin, Thin skin Layers of Skin , Melanocytes Langerhans Cells, Merkel's Cells.	2	8
Daily, monthly, and mid-term exams Annual and final	Theoretical lecture using the program PowerPoint	General Histology	Integumentary System: skin glands, Sebaceous Glands, Sweat glands, Subcutaneous tissue (hypodermis hair, and nail	2	9
Daily, monthly, and mid-term exams Annual and final	Theoretical lecture using the program PowerPoint	General Histology	Hemopoiesis: bone marrow Prenatal hemopoiesis, Postnatal hemopoiesis Bone marrow, Red bone marrow, Yellow bone marrow.	2	10
Daily, monthly, and mid-term exams Annual and final	Theoretical lecture using the program PowerPoint	General Histology	Hemopoiesis: blood cells Erythrocytes or Red blood corpuscles (RBC), (Leukocytes), platelets.	2	11
Daily, monthly, and mid-term exams Annual and final	Theoretical lecture using the program PowerPoint	General Histology	Circulatory System: Arterial system Elastic arteries, Muscular arteries Arterioles, Lymphatic vascular system	2	12
Daily, monthly, and mid-term exams Annual and final	Theoretical lecture using the program PowerPoint	General Histology	Circulatory System: Muscular veins Venules, Capillaries, the heart.	2	13

Daily, monthly, and mid-term exams Annual and final	Theoretical lecture using the program PowerPoint	General Histology	Lymphoid System: Functions of the Lymphatic System consists of Cells, Tissues, Organs.	2	14
Daily, monthly, and mid-term exams Annual and final	Theoretical lecture using the program PowerPoint	General Histology	Lymphoid System: The peripheral (secondary) lymphoid tissues Mucosa Associated Lymphoid Tissue (MALT).	2	15
	Theoretical lecture using the program PowerPoint				16
Daily, monthly, and mid-term exams Annual and final	Theoretical lecture using the program PowerPoint	General Histology	Nervous System: Nerve tissue, Neurons and glial cell (structure and types). Nerve fibers structure Synapse impulse reflex arch. CNS and PNS, Brain, Spinal cord, Cerebellum.	2	17
Daily, monthly, and mid-term exams Annual and final	Theoretical lecture using the program PowerPoint	General Histology	Endocrine System: Histological structure of Pituitary (Hypophysis), Blood supply, and cells of the neurohypophysis.	2	18
Daily, monthly, and mid-term exams Annual and final	Theoretical lecture using the program PowerPoint	General Histology	Endocrine System: Histological structure of Parathyroid, Thyroid glands.	2	19
Daily, monthly, and mid-term exams Annual and final	Theoretical lecture using the program PowerPoint	General Histology	Endocrine System: Histological structure of: Islets of Langerhans, Adrenal gland and Pineal gland.	2	20
Daily, monthly, and mid-term exams Annual and final	Theoretical lecture using the program PowerPoint	General Histology	Digestive System: Tongue, Salivary glands, Lips or labia, Taste buds, Types of the cells in	2	21

			the taste buds.		
Daily, monthly, and mid-term exams Annual and final	Theoretical lecture using the program PowerPoint	General Histology	Digestive System: General structure of the digestive tract, Oral cavity, Esophagus, Stomach Mucosa, Other Layers	2	22
Daily, monthly, and mid-term exams Annual and final	Theoretical lecture using the program PowerPoint	General Histology	Digestive System: Large intestine, Cecum, Appendix, and Rectum.	2	23
Daily, monthly, and mid-term exams Annual and final	Theoretical lecture using the program PowerPoint	General Histology	Digestive System: Histological structure of: liver ,Pancreas , and Gall bladder.	2	24
Daily, monthly, and mid-term exams Annual and final	Theoretical lecture using the program PowerPoint	General Histology	Male Reproductive System Testes, Intratesticular ducts, Excretory genital ducts.	2	25
Daily, monthly, and mid-term exams Annual and final	Theoretical lecture using the program PowerPoint	General Histology	Male Reproductive System Accessory glands, Penis.	2	26
Daily, monthly, and mid-term exams Annual and final	Theoretical lecture using the program PowerPoint	General Histology	Female Reproductive System Histological structure of: Ovary, Corpus luteum, Uterus.	2	27
Daily, monthly, and mid-term exams Annual and final	Theoretical lecture using the program PowerPoint	General Histology	Female Reproductive System Histological structure of placenta, vagina, mammary gland.	2	28
Daily, monthly, and mid-term exams Annual and final	Theoretical lecture using the program PowerPoint	General Histology	Special Sense Organs: eye	2	29
Daily, monthly, and mid-term exams Annual and final	Theoretical lecture using the program PowerPoint	General Histology	Special Sense Organs: ear	2	30
Total					60

.11 course description	
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. Etc. 15% midterm 25% annual effort (includes daily and monthly exams and practical requirements) 20% final practical exam 40% final theoretical exam	
.12 learning methods	
<ul style="list-style-type: none"> Junqueira's Basic Histology: TEXT and ATLAS 	Required textbooks (methodology if available)
Jonquiere's Basic Histology Text and Atlas Thirteen Edition (2013) by Anthony L. Mescher ; Di Fiore's Atlas of Histology with Functional Correlations, Twelfth Edition (2013)by Victor P. Eroschenko; Illustrated Dental Embryology, Histology, and Anatomy, Fourth Edition (2016)by Margaret J. Fehrenbach and Tracy Popwics.	Main references (sources)

course description

Course name : general histology	.145
Course code: 213 GH	.146
Year: 2024-2025	.147
Date : 2025/5/	.148
Attendance of practical part at the lab.	.149

150 total credit hours (total units): 60 practical hours / 2 units for practical	
.151 Name of the course coordinator (if more than one name is mentioned)	
Lec. Dr. Jaafar Sadiq Makki Hadi Lec. Dr. Haider Latif Mohammed	
.152 course objectives	
Preparing the student practically in terms of applying the acquired knowledge • Thinking about problem-solving. • Developing the student's ability to handle various learning methods • To teach students the practical and theoretical applications of the various general body tissues and all body organs • Familiarization with histological medical terminology Enabling the student to possess sufficient medical knowledge in general histology.	Objectives
.153 learning strategy	
<ul style="list-style-type: none"> • A detailed study of basic tissues, which will provide the key to understanding the histological section of each organ in the human body, and enhancing this study using the light microscope to give students complete information about the histological characteristics of those organs in the human body. • Lectures using PowerPoint program • Showing educational videos. Guiding students to some websites for their benefit. 	Strategy

10 . course structure					
Evaluation method	Learning method	topic	Outcomes	hours	week
Daily, monthly, and final exams, practical activities in the lab	Theoretical-practical lecture using PowerPoint and point examination Slides under the microscope	General Histology	Slides of Cells, Basic Tissue	2	1
Daily, monthly, and final exams, practical activities in the lab	Theoretical-practical lecture using PowerPoint and point examination Slides under the microscope	General Histology	Slides of Epithelial Tissue	2	2
Daily, monthly, and final exams, practical activities in the lab	Theoretical-practical lecture using PowerPoint and point examination Slides under the microscope	General Histology	Slides of Connective Tissue	2	3
Daily, monthly, and final exams, practical activities in the lab	Theoretical-practical lecture using PowerPoint and point examination Slides under the microscope	General Histology	Slides of Respiratory System: conducting portion	2	4
Daily, monthly, and final exams, practical activities in the lab	Theoretical-practical lecture using PowerPoint and point examination Slides under the microscope	General Histology	Slides of Respiratory System: respiratory portion	2	5
Daily, monthly, and final exams, practical activities in the lab	Theoretical-practical lecture using PowerPoint and point examination Slides under the microscope	General Histology	Slides of Urinary System: kidney nephrons, collecting tubules and ducts	2	6

Daily, monthly, and final exams, practical activities in the lab	Theoretical-practical lecture using PowerPoint and point examination Slides under the microscope	General Histology	Slides of Urinary System: ureter, urinary bladder, and male and female urethra	2	7
Daily, monthly, and final exams, practical activities in the lab	Theoretical-practical lecture using PowerPoint and point examination Slides under the microscope	General Histology	Slides of Integumentary System: skin: epidermis, dermis	2	8
Daily, monthly, and final exams, practical activities in the lab	Theoretical-practical lecture using PowerPoint and point examination Slides under the microscope	General Histology	Slides of Integumentary System: skin glands, hair, and nail	2	9
Daily, monthly, and final exams, practical activities in the lab	Theoretical-practical lecture using PowerPoint and point examination Slides under the microscope	General Histology	Slides of Hemopoiesis: bone marrow	2	10
Daily, monthly, and final exams, practical activities in the lab	Theoretical-practical lecture using PowerPoint and point examination Slides under the microscope	General Histology	Slides of Circulatory System	2	12

Daily, monthly, and final exams, practical activities in the lab	Theoretical-practical lecture using PowerPoint and point examination Slides under the microscope	General Histology	Slides of Circulatory System	2	13
Daily, monthly, and final exams, practical activities in the lab	Theoretical-practical lecture using PowerPoint and point examination Slides under the microscope	General Histology	Slides of Lymphoid System	2	14
Daily, monthly, and final exams, practical activities in the lab	Theoretical-practical lecture using PowerPoint and point examination Slides under the microscope	General Histology	Slides of Lymphoid System	2	15
	Mid Exam				16
Daily, monthly, and final exams, practical activities in the lab	Theoretical-practical lecture using PowerPoint and point examination Slides under the microscope	General Histology	Slides of Nervous System	2	17
Daily, monthly, and final exams, practical activities in the lab	Theoretical-practical lecture using PowerPoint and point examination Slides under the microscope	General Histology	Slides of Endocrine System	2	18
Daily, monthly, and final exams, practical activities in the lab	Theoretical-practical lecture using PowerPoint and point examination Slides under the microscope	General Histology	Slides of Endocrine System	2	19

Daily, monthly, and final exams, practical activities in the lab	Theoretical-practical lecture using PowerPoint and point examination Slides under the microscope	General Histology	Slides of Endocrine System	2	20
Daily, monthly, and final exams, practical activities in the lab	Theoretical-practical lecture using PowerPoint and point examination Slides under the microscope	General Histology	Slides of Digestive System	2	21
Daily, monthly, and final exams, practical activities in the lab	Theoretical-practical lecture using PowerPoint and point examination Slides under the microscope	General Histology	Slides of Digestive System	2	22
Daily, monthly, and final exams, practical activities in the lab	Theoretical-practical lecture using PowerPoint and point examination Slides under the microscope	General Histology	Slides of Digestive System	2	23
Daily, monthly, and final exams, practical activities in the lab	Theoretical-practical lecture using PowerPoint and point examination Slides under the microscope	General Histology	Slides of Digestive System	2	24
Daily, monthly, and final exams, practical activities in the lab	Theoretical-practical lecture using PowerPoint and point examination Slides under the microscope	General Histology	Slides of Male Reproductive System	2	25

Daily, monthly, and final exams, practical activities in the lab	Theoretical-practical lecture using PowerPoint and point examination Slides under the microscope	General Histology	Slides of Male Reproductive System	2	26
Daily, monthly, and final exams, practical activities in the lab	Theoretical-practical lecture using PowerPoint and point examination Slides under the microscope	General Histology	Slides of Female Reproductive System	2	27
Daily, monthly, and final exams, practical activities in the lab	Theoretical-practical lecture using PowerPoint and point examination Slides under the microscope	General Histology	Slides of Female Reproductive System	2	28
Daily, monthly, and final exams, practical activities in the lab	Theoretical-practical lecture using PowerPoint and point examination Slides under the microscope	General Histology	Slides of Special Sense Organs: eye	2	29
Daily, monthly, and final exams, practical activities in the lab	Theoretical-practical lecture using PowerPoint and point examination Slides under the microscope	General Histology	Slides of Special Sense Organs: ear	2	30
Total	60				

.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, and written exams, etc. etc.

15% midterm 25% annual effort (includes daily and monthly exams and practical requirements) 20% final practical exam 40% final theoretical exam

.12 learning sources

- Junqueira's Basic Histology: TEXT and ATLAS**

Required textbooks
(curriculum if available)

Jonquiere's Basic Histology Text and Atlas Thirteen Edition (2013) by Anthony L. Mescher ; Di Fiore's Atlas of Histology with Functional Correlations, Twelfth Edition (2013) by Victor P. Eroschenko; Illustrated Dental Embryology, Histology, and Anatomy, Fourth Edition (2016) by Margaret J. Fehrenbach and Tracy Popwics.

Main references (sources)

Course description

.154 course name : physiology

.155 course code : PH/ 214

.156 Year : 2024-2025

.157 Date 2025/5/

.158 Available attendance forms
Attendance in the classroom for the theoretical subject

.159 Total study hours (total)/(total units): (60 hours) theoretical/(4 study units)

160. Administrator name:

Mr. Dr. Thaer Saleem Salman
tsss1958@uruk.edu.iq

161. course objectives

<ul style="list-style-type: none"> • Recognizing the organs of the body and the function and role of each organ in the body • Familiarization with physiological medical terminology • Enabling the student to possess sufficient medical knowledge in the field of medical physiology • Finding knowledge and understanding of complex physiological functions and how to translate this knowledge to improve health and prevent diseases 	Objectives
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162. strategy

<ul style="list-style-type: none"> • Lectures using the PowerPoint program • Showing educational videos. • Guiding students to certain websites for their benefit. • Monitoring students' thinking patterns, their ways of expression, and their response speed through scientific discussions. 	strategy
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.10 course structure

Evaluation	Learning method	Topics	Outcomes	hours	week
Daily, monthly, and semi-annual exams Annual and final	Theoretical lecture using the program powerpoint	Physiology	Introduction; (Function organization of the human body, Cell physiology, Cell membrane, Cell components, Cell Junction)	2	1
Daily, monthly, and semi-annual exams Annual and final	Theoretical lecture using the program powerpoint	Physiology	Body fluid (Type of body fluids, Intracellular and extracellular, Constituents of extracellular and intracellular fluids, Specialized Body Fluids) Edema (Types of Edema, Causes of edema, Measurement of body fluid volume, Dehydration, Types, Classification, Causes, Signs, and Symptoms of Dehydration)	2	2

Daily, monthly, and semi-annual exams Annual and final	Theoretical lecture using the program powerpoint	Physiology	Homeostasis and Transport across cell membrane (Diffusion (passive), Carrier-mediated transport (passive or active), Vesicular transport).	2	3
Daily, monthly, and semi-annual exams Annual and final	Theoretical lecture using the program powerpoint	Physiology	ORAL CAVITY and Salivary Glands (Functions of Mouth, Salivary Glands (Structure, Development, Major and 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)	2	4
Daily, monthly, and semi-annual exams Annual and final	Theoretical lecture using the program powerpoint	Physiology	Salivary functions and Regulation of Salivary Secretion (Composition of Saliva, Properties of Saliva, Functions of Saliva, Effect of Drugs and Chemicals on Salivary Secretion, Maintenance of Tooth Integrity, The Diagnostic Applications of Saliva and forensic uses of saliva, Disadvantages/ Limitations of Saliva)	2	5
Daily, monthly, and semi-annual exams Annual and final	Theoretical lecture using the program powerpoint	Physiology	Physiology of Blood Composition of blood, Hematocrit, Plasma, Functions of blood), Red blood cells (Genesis of R.B.C, polycythemia, Anemia, Destruction of R.B.C.s)	2	6
Daily, monthly, and semi-annual exams Annual and final	Theoretical lecture using the program powerpoint	Physiology	White Blood Cells (Types of W.B.C., Genesis of the leukocytes, Life span of the W.B.C, Phagocytosis, Inflammation, Leukemia, Leukopenia)	2	7

Daily, monthly, and semi-annual exams Annual and final	Theoretical lecture using the program powerpoint	Physiology	Hemoglobin (Formation of Hemoglobin, Iron Metabolism, Hb Compounds, Destruction of Hb, The common causes of jaundice)	2	8
Daily, monthly, and semi-annual exams Annual and final	Theoretical lecture using the program powerpoint	Physiology	Blood groups (Agglutination, Agglutinins, The Rh Group, Formation of Anti-Rh, agglutinins, Erythroblastosis Fetalis, Effect of the Mother's Antibodies on the	2	9

			Fetus, Transfusion Reactions resulting from mismatched Blood Types, Nature of Antibodies)		
Daily, monthly, and semi-annual exams Annual and final	Theoretical lecture using the program powerpoint	Physiology	Hemostasis and blood coagulation (Vascular Spasm, Formation of a Platelet Plug, Mechanism of the Platelet Plug, Mechanism of Blood Coagulation, Prevention of Clotting in normal vascular System, Prevention of blood coagulation outside the Body, Blood Disease)	2	10
Daily, monthly, and semi-annual exams Annual and final	Theoretical lecture using the program powerpoint				
Daily, monthly, and semi-annual exams Annual and final	Theoretical lecture using the program powerpoint				
Daily, monthly, and semi-annual exams Annual and final	Theoretical lecture using the program powerpoint				
Daily, monthly, and semi-annual exams Annual and final	Theoretical lecture using the program powerpoint	Physiology	Cardiovascular system: Blood vessels (Heart: Layers, Valves, Actions of heart, Blood Vessels, Division of circulation, Properties of Cardiac Muscle, Action Potential and Ionic Basis, Conductive system of Human Heart)	2	11
Daily, monthly, and semi-annual exams Annual and final	Theoretical lecture using the program powerpoint	Physiology	Cardiovascular system: Blood pressure (Cardiac Cycle, Heart Sounds, Cardiac Output, Heart Rate and Regulation, Arterial Blood Pressure and Regulation of ABP Venous Pressure and Capillary Pressure, Arterial Pulse and Venous Pulse, Regional Circulation)	2	12

Daily, monthly, and semi-annual exams Annual and final	Theoretical lecture using the program powerpoint	Physiology	Cardiovascular system (Electrocardiogram, Hemorrhage, Circulatory Shock and Heart Failure, Cardiovascular Adjustments during Exercise)	2	13
Daily, monthly, and semi-annual exams Annual and final	Theoretical lecture using the program powerpoint	Physiology	Respiratory system (Types and Stages of Respiration, Non-respiratory functions of respiratory tract, Mechanics of Pulmonary Ventilation, Respiratory pressures: Types of Respiratory pressures, Compliance, dead space, Pulmonary Circulation)	2	14
Daily, monthly, and semi-annual exams Annual and final	Theoretical lecture using the program powerpoint	Physiology	Respiratory system: Lung volumes and capacities (Lung volume and Lung capacity, Ventilation, Respiratory Protective reflexes, Pulmonary function tests, Regulation of Respiration Disturbances of	2	15

			Respiration, Pathophysiology of Specific Pulmonary Abnormalities, The relationship between oral health and respiratory disease)		
			Half-year Break		16
Daily, monthly, and semi-annual exams Annual and final	Theoretical lecture using the program powerpoint	Physiology	SPECIAL SENSATION: Vision, Hearing, taste & smell (Structure of Eye, Visual Process and Field of Vision, Visual Pathway Pupillary Reflexes, Color Vision, and Errors of Refraction. Structure of Ear and Auditory Pathway, Mechanism of Hearing and Auditory Defects, Sensation of Taste and Smell)	2	17
Daily, monthly, and semi-annual exams Annual and final	Theoretical lecture using the program powerpoint	Physiology	Temperature of the Body (Normal body Temperatures, Physiological Variations, Heat Balance, Insulator System, Regulation of body temperature, Mechanisms to decrease or increase body temperature, Sympathetic "Chemical" Excitation of heat production)	2	18
Daily, monthly, and semi-annual exams Annual and final	Theoretical lecture using the program powerpoint	Physiology	Urinary system (Parts of Renal system, Functions of kidneys, Components of kidney, Parenchyma of kidney, Urine formation: Mechanism of urine formation, Glomerular Filtration, Pressure determining filtration, Tubular Reabsorption & secretion)	2	19
Daily, monthly, and semi-annual exams Annual and final	Theoretical lecture using the program powerpoint	Physiology	Urinary system: Urine concentration (Mechanism of urine concentration, Formation of Dilute Urine, Formation of Concentrated Urine, Micturition, Nerve supply to urinary bladder, Renal Function Tests, Relation between renal disease & oral health)	2	20
Daily, monthly, and semi-annual exams Annual and final	Theoretical lecture using the program powerpoint	Physiology	Endocrine System (Introduction, Endocrine glands, Hormones, Classification of hormones, Hormonal action. Hormone receptors, Synthesis and storage of hormones, Mechanism of	2	21

			hormonal function, Measurement of Hormone Concentrations)		
Daily, monthly, and semi-annual exams Annual and final	Theoretical lecture using the program powerpoint	Physiology	Major Endocrine Glands Oral manifestations of endocrine dysfunction, Control Systems Involving Hypothalamus and Pituitary glands, The pituitary gland, Thyroid gland, Pancreas gland, Adrenal glands	2	22
Daily, monthly, and semi-annual exams Annual and final	Theoretical lecture using the program powerpoint	Physiology	Digestive system (The Functions of the digestive, Structural layers of the digestive, Stomach, Secretions of the Stomach, Regulation of Stomach Secretion, Mixing of Stomach Contents, Stomach Emptying	2	23
Daily, monthly, and semi-annual exams Annual and final	Theoretical lecture using the program powerpoint	Physiology	Digestive system (Small intestine, Secretions of small intestine, Movement in small intestine, Liver, Functions of liver, Pancreatic secretions, Regulation of pancreatic secretion, large intestine, movement in large Intestine, Digestion, Absorption, Transport)	2	24
Daily, monthly, and semi-annual exams Annual and final	Theoretical lecture using the program powerpoint	Physiology	Muscular system: Muscle structure (Types, Structure, Microscopic Structure, Muscle Physiology, Properties, Contraction and contractile elements, Tone, Electrical and Molecular Changes during Muscular Contraction)	2	25
Daily, monthly, and semi-annual exams Annual and final	Theoretical lecture using the program powerpoint	Physiology	Muscular system: Tone, contraction (Molecular Changes During Muscular Contraction, Neuromuscular Junction- Neuromuscular Transmission and Blockers, Nutrition and Metabolism (Energy Requirements))	2	26
Daily, monthly, and semi-annual exams Annual and final	Theoretical lecture using the program powerpoint	Physiology	Nervous System: Nerve impulse, synapses (Nervous System Division, Cranial nerves, Neuron and Neuroglia, Receptors, Nerve impulses, Synapses, and Neurotransmitters)	2	27

Daily, monthly, and semi-annual exams Annual and final	Theoretical lecture using the program powerpoint	Physiology	Nervous System (Reflex Activity, Somatosensory System and Somatomotor System, Physiology of Pain)	2	28
Daily, monthly, and semi-annual exams Annual and final	Theoretical lecture using the program powerpoint	Physiology	Reproductive system: Aging & reproductive system (Male Reproductive System Female Reproductive System, Meiosis, Aging and Reproductive system.	2	29
Daily, monthly, and semi-annual exams Annual and final	Theoretical lecture using the program powerpoint	Physiology	Aviation and Deep physiology (Body Response in high altitudes, physiological Changes in the Sea deep) Nutrition and metabolism (daily energy requirement, obesity and fitness)	2	30
			Final exam		

.11 course evaluation

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

15% midterm 25% annual effort (includes daily and monthly exams and practical requirements) 20% final practical exam 40% final theoretical exam

.12 learning methods

1- Medical physiology (Gyton) 2- Essential physiology for dental students	Main refernces
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Course description

.163 course name : physiology –practical
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.164 course code : physiology PH/ 214	
.165 Year: 2024-2025	
.166 Date: 2025/5/	
.167 attendance form: at lab	
.168 Total study hours (total)/(total units) total: (60 hours) practical/(2 study units)	
.169 administrator name	
<div> <div>lec. Dr. Thaer Saleem Salman</div> <div>assist. Lec. Ali Maki Jaafar</div> </div> <div> <div>tsss1958@uruk.edu.iq</div> <div>ali.m.jaafar@uruk.edu.iq</div> </div>	
.170 course objectives	
<ul style="list-style-type: none"> • Preparing the student practically in terms of applying the acquired knowledge • Thinking about problem-solving. • Developing the student's ability to deal with various learning methods • Recognizing the organs of the body and the function and work of each organ in the body • Familiarization with physiological medical terminology • Enabling the student to possess sufficient medical knowledge in the field of medical physiology • Finding knowledge and understanding of complex physiological functions and how to translate this knowledge to improve health and prevent diseases 	Objectives
.171 learning strategy	
<ul style="list-style-type: none"> • Conducting practical experiments to enhance the student's understanding and perception. • Lectures using PowerPoint program • Showing educational videos. • Guiding students to certain websites for their benefit. • Monitoring students' thinking patterns, expression methods, and response speed through scientific discussions. 	Strategy

.10 course structure					
Evaluation method	Learning method	Topic	Outcomes	Hours	week
Daily, monthly, and semi-annual exams Annual and final	Theoretical lecture using the program powerpoint	Physiology	Microscope	2	1
Daily, monthly, and semi-annual exams Annual and final	Theoretical lecture using the program powerpoint	Physiology	Collection of Blood Samples	2	2
Daily, monthly, and semi-annual exams Annual and final	Theoretical lecture using the program powerpoint	Physiology	Blood Smears	2	3
Daily, monthly, and semi-annual exams Annual and final	Theoretical lecture using the program powerpoint	Physiology	Functions of Saliva & Taste Sensation	2	4
Daily, monthly, and semi-annual exams Annual and final	Theoretical lecture using the program powerpoint	Physiology	Stimulation and collection of salivary secretion	2	5
Daily, monthly, and semi-annual exams Annual and final	Theoretical lecture using the program powerpoint	Physiology	Separation of blood samples	2	6
Daily, monthly, and semi-annual exams Annual and final	Theoretical lecture using the program powerpoint	Physiology	Differential WBCs	2	7
Daily, monthly, and semi-annual exams Annual and final	Theoretical lecture using the program powerpoint	Physiology	Total Count of WBCs	2	8
Daily, monthly, and semi-annual exams Annual and final	Theoretical lecture using the program powerpoint	Physiology	Total Count of RBCs	2	9
Daily, monthly, and semi-annual exams Annual and final	Theoretical lecture using the program powerpoint	Physiology	Blood groups	2	10
Daily, monthly, and semi-annual exams Annual and final	Theoretical lecture using the program powerpoint	Physiology	Estimation of Hemoglobin	2	11
Daily, monthly, and semi-annual exams Annual and final	Theoretical lecture using the program powerpoint	Physiology	Bleeding and clotting time	2	12
Daily, monthly, and semi-annual exams Annual and final	Theoretical lecture using the program powerpoint	Physiology	Self-Monitoring of blood glucose test	2	13
Daily, monthly, and semi-annual exams Annual and final	Theoretical lecture using the program powerpoint	Physiology	Measurement of blood pressure & pulse rate	2	14

		Physiology	Effect of exercise on blood pressure and respiratory rate	2	15
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			Mid Exam		16
Daily, monthly, and semi-annual exams Annual and final	Theoretical lecture using the program powerpoint	Physiology	Physiology of vision test	2	17
Daily, monthly, and semi-annual exams Annual and final	Theoretical lecture using the program powerpoint	Physiology	Physiology of hearing test	2	18
Daily, monthly, and semi-annual exams Annual and final	Theoretical lecture using the program powerpoint	Physiology	Physiology of Smell sensation	2	19
Daily, monthly, and semi-annual exams Annual and final	Theoretical lecture using the program powerpoint	Physiology	Measurement of body temperature	2	20
Daily, monthly, and semi-annual exams Annual and final	Theoretical lecture using the program powerpoint	Physiology	Thyroid function (Body mass index)	2	21
Daily, monthly, and semi-annual exams Annual and final	Theoretical lecture using the program powerpoint	Physiology	Thyroid function (Body mass index)	2	22
Daily, monthly, and semi-annual exams Annual and final	Theoretical lecture using the program powerpoint	Physiology	Resuscitation & Artificial respiration	2	23
Daily, monthly, and semi-annual exams Annual and final	Theoretical lecture using the program powerpoint	Physiology	Resuscitation & Artificial respiration	2	24
Daily, monthly, and semi-annual exams Annual and final	Theoretical lecture using the program powerpoint	Physiology	Physiology of Skeletal muscles	2	25
Daily, monthly, and semi-annual exams Annual and final	Theoretical lecture using the program powerpoint	Physiology	Physiology of Skeletal muscles	2	26
Daily, monthly, and semi-annual exams Annual and final	Theoretical lecture using the program powerpoint	Physiology	Physiology of Skeletal muscles	2	27
Daily, monthly, and semi-annual exams Annual and final	Theoretical lecture using the program powerpoint	Physiology	Examination of reflexes (Motor Function)	2	28
Daily, monthly, and semi-annual exams Annual and final	Theoretical lecture using the program powerpoint	Physiology	Seminars and examinations	2	29
Daily, monthly, and semi-annual exams Annual and final	Theoretical lecture using the program powerpoint	Physiology	Seminars and examinations	2	30

			Final exam		
.					
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					
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			(
1- Medical physiology (Gyton) 2- Essential physiology for dental students			Main referenes		
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.172	course name: Sciences Computer
.173	code : 103CS
.174	year : 2024-2025
.175	date: 2025/5/
.176	theoretical lectures
.177	Total credit hours (total) / Total units (total): 30 hours / 60 study units
.178	
a d m i n i s t r a t o r n a m e	
Eng. Mr. Ayman Thamer Hassan	
Mr. Mr. Noor Sabah Abbas	
M. Maya Ibrahim Abdul Razak	

• Introduction to Computer Science teaches students the performance of computers, the adopted methods, programs, and the use of computers in the medical field. The introduction to computer science teaches students about the performance of computers, the methods used, programs, and the use of computers in the medical field.	Objectives
Cooperative learning encourages collaboration and interaction among learners to solve problems and discuss concepts. • Cooperative learning: Encourages collaboration and interaction among learners to solve problems and discuss concepts. • Active learning: Focuses on actively engaging learners in the learning process through the use of interactive activities such as roles, simulations, and practical experiments. • Technology-based learning: It uses technology in the learning and teaching process, such as using multimedia and online learning.	strategy

.10course structure					
Evaluation	Learning method	Topics	Outcomes	hours	week
Daily, monthly, and semi-annual exams Annual and final	Theoretical lecture using the program powerpoint	computer 1	Introduction about computer /Hardware and Software/computer structure/`Floppy magnetic disks+ E-learning	1	2 + 1
Daily, monthly, and semi-annual exams Annual and final	Theoretical lecture using the program powerpoint	computer	Introduction to E-learning Google Classroom Platform Google drive+ Google forms	1	4 + 3
Daily, monthly, and semi-annual exams Annual and final	Theoretical lecture using the program powerpoint	computer	Online conferencing+ Introduction	1	6 + 5

Daily, monthly, and semi-annual exams Annual and final	Theoretical lecture using the program powerpoint		about Windows /A look at Windows		
Daily, monthly, and semi-annual exams Annual and final	Theoretical lecture using the program powerpoint		10/Stating		
Daily, monthly, and semi-annual exams Annual and final	Theoretical lecture using the program powerpoint		Windows		
Daily, monthly, and semi-annual exams Annual and final	Theoretical lecture using the program powerpoint		10/Working with a windows Program+Working with files and folders/ Using My computer		
Daily, monthly, and semi-annual exams Annual and final	Theoretical lecture using the program powerpoint	computer ¹	Working with Taskbar and Desktop+ Using Windows Accessories	1	8 + 7
Daily, monthly, and semi-annual	Theoretical lecture using	computer ¹	A look at Control Panel+ Widows Explorer	1	10 + 9

exams Annual and final	the program powerpo int				
		computer ¹	Libraries+ Introduction about Microsoft Word2016 A look at Microsoft Word /Editing Document	1	12 + 11
Daily, monthly , and semi- annual exams Annual and final	Theoreti cal lecture using the program powerpo int	computer ¹	Formatting	1	13
Daily, monthly , and semi- annual exams Annual and final	Theoreti cal lecture using the program powerpo int	computer ¹	Text/ Formatting paragraphs/ Proofing documents	1	14
Daily, monthly , and semi- annual exams Annual and final	Theoreti cal lecture using the program powerpo int	computer ¹	Adding Tables	1	15
		computer ¹	Inserting Graphic Elements+ Controlling	1	16 + 15

			page Appearance		
Daily, monthly , and semi- annual exams Annual and final	Theoreti cal lecture using the program powerpo int	computer ^l	Introduction about Excels /A Look at Microsoft Excel+ Modifying A Worksheet /performing Calculations	1	18 + 17
Daily, monthly , and semi- annual exams Annual and final	Theoreti cal lecture using the program powerpo int	computer ^l	Formatting a worksheet/ Developing a work book/ Printing Workbook Contents/Custo mizing Layout	1	19
Daily, monthly , and semi- annual exams Annual and final	Theoreti cal lecture using the program powerpo int	computer ^l	Introduction about Microsoft Access/ A look at Microsoft Access+ Creating Data tables /properties of the fields	1	21 + 20 22 +
		computer ^l	Querying the database/Desig ning Forms/Produci ng reports	1	23
		computer ^l	Introduction about Microsoft Power point/starting	1	25 + 24

			power point2016		
		computer	Formatting text/Using graphics and Text	1	26

Daily, monthly, and semi-annual exams	Theoretical lecture using the program powerpoint		Manipulating the slides/Using Multimedia Elements	1	28 + 27
Annual and final			Power point Management	1	29
			Power point Management	1	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, and written exams, and reports... etc. 15% midterm 25% annual effort (includes summer training, daily and monthly exams, and practical requirements) 20% final practical exam, 40% final theoretical exam

. 12. Course sources

Format ting a worksh ee	<ul style="list-style-type: none"> Windows 10 Office 2016 Computer fundamentals and their office applications Part One and Part Two	Required textbooks (curriculum if available)	
t/ Develo pin g a work book			

1- Computer application in	
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managem t 2-E-learning concepts and techniques	

Course name : Sciences Computer	.181
Course Code : 103CS	.182
Year : 2024-2025	.183
Date 2025/5/	.184
185. attendance form: in the lab.	
Total study hours (total)/(total units): (60 hours/ 2 study units 186).	
187. Administrator name	
Eng. Mr. Ayman Thamer Hassan Mr. Mr. Noor Sabah Abbas M. Maya Ibrahim Abdul Razak	
.187 objective	

Introduction to Computer Science teaches students the performance of computers, the adopted methods, programs, and the use of computers in the medical field.	
Strategy	
Cooperative learning: Encourages collaboration and interaction among 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 roles, simulations, and practical experiments. Technology-based learning: It uses technology in the learning and teaching process, such as using multimedia and online learning.	

.10 computer /practical					
		Computer	Introduction about computer /Hardware and Software/computer structure/ Floppy magnetic disks+ E-learning	1	2 + 1
		Computer	Introduction to E-learning Google Classroom Platform Google drive+ Google forms	1	4 + 3
		Computer	Online conferencing+ Introduction about Windows /A look at Windows 10/Stating Windows 10/Working with a windows Program+Working with files and folders/ Using My computer	1	6 + 5

	Computer	Working with Taskbar and Desktop+ Using Windows Accessories	1	8 + 7
	Computer	A look at Control Panel+ Widows Explorer	1	+ 9 10
	Computer	Libraries+ Introduction about Microsoft Word2016 A look at Microsoft Word /Editing Document	1	+ 11 12
	Computer	Formatting Text/ Formatting paragraphs/ Proofing documents	1	13
	Computer	Adding Tables	1	14
	Computer	Inserting Graphic Elements+ Controlling page Appearance	1	+ 15 16
	Computer	Introduction about Excels /A Look at Microsoft Excel+ Modifying A Worksheet /performing Calculations	1	+ 17 18
	Computer	Formatting a worksheet/ Developing a work book/ Printing Workbook Contents/Customizi ng Layout	1	19
	Computer	Introduction about Microsoft Access/ A look at Microsoft Access+ Creating	1	+ 20 + 21 22

Daily, monthly, and semi-annual exams Annual and final	Theoretical lecture using the program powerpoint		Data tables /properties of the fields		
		Computer	Querying the database/Designing Forms/Producing reports	1	23
Daily, monthly, and semi-annual exams Annual and final	Theoretical lecture using the program powerpoint	Computer	Introduction about Microsoft Power point/starting power point2016	1	+ 24 25
		Computer	Formatting text/Using graphics and Text	1	26
Daily, monthly, and semi-annual exams Annual and final	Theoretical lecture using the program powerpoint	Computer	Manipulating the slides/Using Multimedia Elements	1	+ 27 28
Daily, monthly, and semi-annual exams Annual and final	Theoretical lecture using the program powerpoint	Computer	Power point Management	1	29
		Computer	Microsoft Access	1	30

		.1 1 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. 15% midterm exam 25% annual pursuit (includes summer training, daily and monthly exams, and practical requirements)

		<ul style="list-style-type: none"> Windows 10 Office 2016
		Required textbooks (curriculum if available)
		<ul style="list-style-type: none"> Computer application in management E-learning concepts and techniques
		Main references

human anatomy .189

209AT course code : .190

.191	year: 2024-2025
.192	date 2025/5/
.193	theoretical lectures
.194	Total study hours (total)/(total units): 30 hours/60 study units 60 practical hours / 120 study units
.195	Administrator
Lec. Dr. Thanaa Jameel Mahdi Darwish	
thenajkhishali@uruk.edu.iq	
.196	objectives
Scientific preparation for the student regarding human anatomy, • especially what concerns the anatomy of the head and neck and its .relationship to his specialization in cleansing as a dentist	
.197	strategy
Acquiring knowledge of human anatomy - - Focusing on the anatomy of the head and neck .- Its relationship to his specialty as a dentist	

10. course structure					
Evaluation method	Learning method	topics	Outcome	Hours	Week

Daily, monthly, semi-annual, and final exams	Theoretical lecture using the program PowerPoint power point	Scalp Layers of the scalp Muscles of the scalp Sensory Nerve Supply of the Scalp Arterial Supply of the Scalp Venous Drainage of the Scalp Lymph Drainage of the Scalp Clinical Notes		2	2&1
Daily, monthly, semi-annual, and final exams	Theoretical lecture using the program PowerPoint power point	The orbital region Eyelids Movements of the Eyelids Lacrimal Apparatus Openings into the Orbital Cavity Nerves of the Orbit Blood and Lymph Vessels of the Orbit Structure of the Eye Clinical Notes		2	4&3
Daily, monthly, semi-annual, and final exams	Theoretical lecture using the program PowerPoint power point	The Nasal region The Nose External Nose Nerve Supply of the External Nose Blood Supply and Venous Drainage of the External Nose Nasal Cavity Mucous Membrane of the Nasal Cavity Nerve Supply of the Nasal Cavity Blood Supply to the Nasal Cavity Venous Drainage of the Nasal Cavity Lymph Drainage of the Nasal Cavity The Paranasal Sinuses Drainage of Mucus and Functions of Paranasal Sinuses Clinical Notes		2	6&5
Daily, monthly, semi-annual, and final exams	Theoretical lecture using the program PowerPoint power point	Mandibular nerve Introduction Branches of the Mandibular Nerve Otic Ganglion Clinical Notes		1	7

Daily, monthly, semi-annual, and final exams	Theoretical lecture using the program PowerPoint power point	<p>Face</p> <p>Skin of the Face</p> <p>Muscles of the Face (Muscles of Facial Expression)</p> <p>Sensory Nerves of the Face</p> <p>Arterial Supply of the Face</p> <p>venous drainage of the Face</p> <p>venous drainage of the Face</p> <p>Lymphatic drainage of the face</p> <p>Facial nerve</p>		2	9&8
Daily, monthly, semi-annual, and final exams	Theoretical lecture using the program PowerPoint power point	<p>Oral cavity</p> <p>The Lips</p> <p>The oral Cavity vestibule and Proper</p> <p>Sensory innervation of the Mouth</p> <p>Hard Palate & Soft palate</p> <p>Muscles of the Soft Palate</p> <p>Palatoglossal Arch & Palatopharyngeal Arch</p>		2	&10 11
Daily, monthly, semi-annual, and final exams	Theoretical lecture using the program PowerPoint power point	<p>Tongue</p> <p>Mucous Membrane of the Tongue</p> <p>Muscles of the Tongue</p> <p>Movements of the Tongue</p>		1	12
Daily, monthly, semi-annual, and final exams	Theoretical lecture using the program PowerPoint power point	<p>Temporal region</p> <p>The temporal fossa anatomy</p> <p>The infratemporal fossa</p> <p>Communications</p> <p>Muscles of mastication</p>		1	13
Daily, monthly, semi-annual, and final exams	Theoretical lecture using the program PowerPoint power point	<p>Parotid gland</p> <p>Parotid Region (Boundaries)</p> <p>Parotid Gland</p> <p>Parotid Duct</p> <p>Innervation of Parotid Gland and Related Structures</p> <p>Arterial Supply</p> <p>Venous Drainage</p> <p>Lymph Drainage</p> <p>The Buccal Pad of Fat</p> <p>Clinical Notes</p>		2	&14 15
Daily, monthly, semi-annual, and final exams	Theoretical lecture using the program PowerPoint power point	<p>The Pterygopalatine fossa</p> <p>Boundaries, Communications and openings</p> <p>Maxillary nerve</p> <p>Branches from the pterygopalatine ganglion</p> <p>THE PTERYGOPALATINE GANGLION</p> <p>THE VEINS OF THE PTERYGOPALATINE FOSSA</p>		1	16
امتحانات يومية وشهرية	Theoretical lecture using the program PowerPoint power point	<p>Temporomandibular joint</p> <p>Introduction</p> <p>The Articular Disk</p>		1	17

		Retrodiscal Tissue Capsule Synovial Membrane Ligaments Nerve Supply Vascular Supply Movements Important Relations of the 2Temporomandibular Joint C1linical Notes			
Daily, monthly, semi-annual, and final exams	Theoretical lecture using the program PowerPoint power point	The neck Overview Skin of the Neck Fasciae of the Neck Superficial Cervical Fascia Deep Cervical Fascia Cervical Ligaments Muscles of the Neck Cervical Plexus Bones of Neck Blood Supply Key Neck Muscles		2	&18 19
Daily, monthly, semi-annual, and final exams	Theoretical lecture using the program PowerPoint power point	Brain Nervous System Gross Anatomy of the Brain Parts of the Brain Ventricular System of the Brain The Venous Blood Sinuses (Dural Sinuses) Blood Supply of the Brain Cranial Meninges Dural Nerve Supply Dural Arterial Supply Dural Venous Drainage		1	20
Daily, monthly, semi-annual, and final exams	Theoretical lecture using the program PowerPoint power point	triangles of the neck ANTERIOR TRIANGLE SUBMENTAL TRIANGLE SUBMANDIBULAR TRIANGLE CAROTID TRIANGLE MUSCULAR TRIANGLE Posterior Triangle Thyroid Gland blood supply & venous drainage nerve supply		2	&21 22
Daily, monthly, semi-annual, and final exams	Theoretical lecture using the program PowerPoint power point	Submandibular region MUSCLES OF THE SUBMANDIBULAR REGION The submandibular gland Sublingual Gland		1	23

Daily, monthly, semi-annual, and final exams	Theoretical lecture using the program PowerPoint power point	The root of the neck Muscles of the Root of the Neck The Thoracic Duct Main Nerves of the Neck Cervical Plexus & Brachial Plexus Lymph Drainage of the Head and Neck Veins of the Head and Neck		2	&24 25
Daily, monthly, semi-annual, and final exams	Theoretical lecture using the program PowerPoint power point	Arteries of the neck Common Carotid Artery Carotid Sinus Carotid Body External Carotid Artery Internal Carotid Artery Subclavian Arteries (3 parts) Circle of Willis		2	&26 27
	Theoretical lecture using the program PowerPoint power point	Cranial nerves Introduction Functional Components Summary of cranial nerves		1	28
	Theoretical lecture using the program PowerPoint power point	Pharynx Muscles of the Pharynx Pharynx divisions Palatine Tonsils Waldeyer's Ring of Lymphoid Tissue		1	29
	Theoretical lecture using the program PowerPoint power point	Larynx Cartilages of the Larynx Membranes and Ligaments of the Larynx Inlet of the Larynx Laryngeal Folds Muscles of the Larynx Nerve & Blood Supply of the Larynx		1	30
11 evaluation .					
<p style="text-align: center;">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 course (includes summer training, daily and monthly %25 exams, and practical requirements) 25% final practical exam final theoretical exam %35</p>					
.12 learning sources					
1.Snell Clinical anatomy 7 th edition. 2. Netter's head and neck anatomy for dentistry 2 nd edition 2012. •			Textbook		

Laboratory sessions

1	Scalp	2
2	Scalp	2
3	The orbital region	2
4	The orbital region	2
5	The nasal cavity	2
6	The face	2
7	The face	2
8	Oral cavity	2
9	Tongue	2
10	The temporal and infratemporal fossae	2
11	The mandibular nerve	2
12	The maxillary artery and pterygoid venous plexus	2
13	The pterygopalatine fossa and maxillary nerve	2
14	The parotid region	2
15	Temporomandibular joint (TMJ)	2
16	Temporomandibular joint (TMJ)	2

17	The neck	2
18	The neck	2
19	Triangles of the neck	2
20	Triangles of the neck	2
21	The submandibular region	2
22	The root of the neck	2
23	The root of the neck	2
24	Arteries of the neck	2
25	Arteries of the neck	2
26	Brain	2
27	Brain	2
28	Cranial nerves	2
29	The pharynx	2
30	The larynx	2
Total		60

Third grade 2024-2024

.198	course name : Microbiology
.199	course code: 315MB
.200	Year : 2024-2025

.201	Date : 2025/5/
.202	attendance form: theoretical lectures
203.	College (total/(number of units) (total): 60 hours/4 units
.20	4 Administrator name
	afnan.riyadh@uruk.edu.iq Lec.Dr. Afnan Riyad Ahmed Saleh Lec..Dr. Rabab Qasim Muhammad
.205	course objectives

<ul style="list-style-type: none"> • Understanding the principles of microbiology and epidemiology, and knowing the general characteristics of microorganisms as well as the specific characteristics of pathogenic oral microorganisms such as bacteria, fungi, and viruses, the mechanisms by which these organisms cause diseases, their diagnosis, how to differentiate between each type of these pathogens, the tests that reveal them, and their treatment. • Understanding non-pathogenic (beneficial) bacteria naturally present in the body and their effects on pathogenic organisms. • Understanding the methods of transmission of infections, especially in the field of dentistry • This course aims to study immunity, the mechanisms of the body's defenses, the immune response to diseases, and the modern and advanced methods in diagnosing microbial diseases. microbial and addressing sterilization methods and how to apply them in relation to dentistry 	Objectives
strategy .206	
<ul style="list-style-type: none"> • Lectures using PowerPoint program • Presenting educational videos. • Guiding students to certain websites for their benefit. • Monitoring students' thinking patterns, their ways of expression, and their response speed through scientific discussions. 	Strategy

207. course structure					
Evaluation method	Learning method	Topics	Outcomes	Hours	week

Daily, monthly, semi-annual, and final exams	Theoretical lecture using the program PowerPoint power point	Microbiology	Morphology, Ultra structures, physiology and metabolism of microorganisms:- -Eukaryotic & Prokaryotic cells -Cell structure of prokaryotes -Comparison between G+ve & G-ve cell wall	2	1
Daily, monthly, semi-annual, and final exams	Theoretical lecture using the program PowerPoint power point	Microbiology	-Microbial growth, growth curve -Metabolism of microorganisms Molecular biology & bacterial genetics	2	2
Daily, monthly, semi-annual, and final exams	Theoretical lecture using the program PowerPoint power point	Microbiology	-Sterilization and Disinfection	2	3
	Theoretical lecture using the program PowerPoint power point	Microbiology	Antibiotic and chemotherapy:- -Antibiotic, sources -Mode of action of antibiotic -Anti-microbial sensitivity tests -Bacterial resistance -Prophylactic use	2	4

Daily, monthly, semi-annual, and final exams	Theoretical lecture using the program PowerPoint power point	Microbiology	- Introduction to general immunology and oral immunology - Non-specific and specific immunity - Antigen - Immunoglobulin - Humeral and Cellular Immunity	2	5
Daily, monthly, semi-annual, and final exams	Theoretical lecture using the program PowerPoint power point	Microbiology	- Cells and organs of the immune system - Complement system - Human leukocyte antigen - Role of complement and HLA in oral disease	2	6
Daily, monthly, semi-annual, and final exams	Theoretical lecture using the program PowerPoint power point	Microbiology	- Oral and mucosal immunity - Autoimmunity and immune tolerance	2	7

Daily, monthly, semi-annual, and final exams	Theoretical lecture using the program PowerPoint power point	Microbiology	- Hypersensitivity reactions - Antimicrobial and immunological defenses of saliva and gingival crevicular fluid components	2	8
Daily, monthly, semi-annual, and final exams	Theoretical lecture using the program PowerPoint power point	Microbiology	Host-parasite relationship & Nosocomial infection -Symbiosis, Commensalism, Amphibiosis, Antagonistic -Sources of infection in hospital and -nosocomial infections -Post-operative wound infection, burns infections	2	9
Daily, monthly, semi-annual, and final exams	Theoretical lecture using the program PowerPoint power point	Microbiology	Streptococci -Pyogenic Streptococci -Lancefield group -Pathogenesis of streptococci -Epidemiology, treatment and prevention -Viridans streptococci -Pneumococci	2	10
Daily, monthly, semi-annual, and final exams	Theoretical lecture using the program PowerPoint power point	Microbiology	Staphylococci -Virulence factors - and pathogenesis -Epidemiology, treatment and prevention	2	11
	Theoretical lecture using the program PowerPoint power point	Microbiology	G- negative diplococcic , Vellionella and Moraxella Neisseria gonorrhea, N. meningitidis	2	12
Daily, monthly, semi-annual, and final exams			Lactobacilli, Actinomyces and <i>Corynebacterium diphtheriae</i> & Diphtheroids	2	13
Daily, monthly, semi-annual, and final exams	Theoretical lecture using the program PowerPoint power point	Microbiology	Bacillus: B. subtilis, B. anthracis and B.ceres	2	14
Daily, monthly, semi-annual, and final exams	Theoretical lecture using the program PowerPoint power point	Microbiology	Clostridium : C. perfringenis , C. tetani, C. botulinum, and difficile	2	15

Daily, monthly, semi-annual, and final exams	Theoretical lecture using the program PowerPoint power point	Microbiology	Enterobacteriaceae -E.coli, Salmonella, Shigella,	2	16
Daily, monthly, semi-annual, and final exams	Theoretical lecture using the program PowerPoint power point	Microbiology	Enterobacter, Klebsiella, proteus, Yersinia	2	17
Daily, monthly, semi-annual, and final exams	Theoretical lecture using the program PowerPoint power point	Microbiology	Mycobacterium -Tuberculosis & Lepae	2	18
Daily, monthly, semi-annual, and final exams	Theoretical lecture using the program PowerPoint power point	Microbiology	Brucella, Haemophilus, Vibrio	2	19
Daily, monthly, semi-annual, and final exams	Theoretical lecture using the program PowerPoint power point	Microbiology	- Aggregatibacter, porphyromonas, prevotella, Bacteroids	2	20
Daily, monthly, semi-annual, and final exams	Theoretical lecture using the program PowerPoint power point	Microbiology	Fusiforms and Spirochaetes -Fusobacterium, leptotrichia	2	21
Daily, monthly, semi-annual, and final exams	Theoretical lecture using the program PowerPoint power point	Microbiology	Treponema and oral Treponema	2	22
Daily, monthly, semi-annual, and final exams	Theoretical lecture using the program PowerPoint power point	Microbiology	Mycoplasma, Chlamydia and Rickettsiae	2	23
Daily, monthly, semi-annual, and final exams	Theoretical lecture using the program PowerPoint power point	Microbiology	Ecology of oral flora -Indigenous flora -Supplemental flora -Transient flora -Sources of oral bacteria -Factors modulating growth of bacteria in the oral cavity	2	24

Daily, monthly, semi-annual, and final exams	Theoretical lecture using the program PowerPoint power point	Microbiology	Microbiology of dental caries -Dental plaque & plaque metabolism - plaque homeostasis -cariogenic microorganisms -Mutans Streptococci -Lactobacilli and Actinomyces-	2	25
Daily, monthly, semi-annual, and final exams	Theoretical lecture using the program PowerPoint power point	Microbiology	Microbial colonization- Caries prevention- Antibacterial factors in saliva- -Vaccination against dental caries	2	26
Daily, monthly, semi-annual, and final exams	Theoretical lecture using the program PowerPoint power point	Microbiology	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	27
Daily, monthly, semi-annual, and final exams	Theoretical lecture using the program PowerPoint power point	Microbiology	Virology -general structure of viruses -classification	2	28
Daily, monthly, semi-annual, and final exams	Theoretical lecture using the program PowerPoint power point	Microbiology	viral replication -Isolation & diagnosis -Oral virology	2	29

Daily, monthly, semi-annual, and final exams	Theoretical lecture using the program PowerPoint power point	Microbiology	- Oral mycology and Oral parasitology -Introduction, epidemiology, transmission -E.histolotica, E.gingivalis, T.tenax -Fungal cells -classification -Candida	2	30
			Final exam		
.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, and written exams, and reports... Etc. 15% midterm 25% annual effort (includes summer training, daily and monthly exams, and practical requirements) 20% final practical exam 40% final theoretical exam					
.12 learning sources					
•					
-Medical microbiology Jawetz, Melnick, & Adelberg's (2019) - Oral microbiology Marsh & Martin's (2016) -Kuby Immunology Eighth Edition ©2019 -Essential Microbiology for Dentistry 5th Edition (2018)			Main textbooks		
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•					

Course name: microbiology .207	
Course code: / 315MB .208	

Year : 2024-2025	.209
Date: 2025/5/	.210
211. Available attendance options: Laboratory attendance for the practical course.	

. 212 Total study hours (overall)/(total units): (60 hours) practical/(2 academic units)	
. 213 Name of the course coordinator (if more than one name is mentioned)	
afnan.riyadh@uruk.edu.iq	Lec.Dr. Afnan Riyad Ahmed Saleh Lec.Dr. Rabab Qasim Muhammad
.214 course objectives	
<ul style="list-style-type: none"> • Preparing the student practically in terms of applying the acquired knowledge. • Understanding the principles of microbiology and epidemiology, and knowing the general characteristics of microorganisms and the specific characteristics of oral pathogenic microorganisms such as bacteria, fungi, and viruses, the mechanisms of disease caused by these organisms, their diagnosis, how to differentiate between each type of these pathogens, the tests that reveal them, and their treatment. • Understanding non-pathogenic (beneficial) bacteria naturally present in the body and their effects on pathogenic organisms on the other hand. • Understanding the methods of transmission of infections, especially in the field of dentistry • This course aims to study immunity, the mechanisms of the body's defenses, the immune response to diseases, and modern and advanced methods in diagnosing microbial diseases, and to address Sterilization methods and how to apply them in relation to dentistry 	Objectives
.215 learning strategy	
<ul style="list-style-type: none"> • Conducting practical experiments to enhance the student's understanding and perception • Lectures using PowerPoint program • Showing educational videos. • Guiding students to certain websites for their benefit. • Monitoring the students' way of thinking, their methods of expression, and their response speed through scientific discussions. 	strategy

.10 course structure					
Evaluation method	Learning method	Topics	Outcomes	Hours	week
Daily and final exams, preparing seminars, practical activities in the laboratory	Theoretical lecture using the program PowerPoint .power point	Microbiology	Orientation to the Microbiology laboratory	2	1
Daily and final exams, preparing seminars, practical activities in the laboratory	Theoretical lecture using the program PowerPoint .power point	Microbiology	The microscope	2	2
Daily and final exams, preparing seminars, practical activities in the laboratory	Theoretical lecture using the program PowerPoint .power point	Microbiology	Sterilisation and disinfection	2	3
Daily and final exams, preparing seminars, practical activities in the laboratory	Theoretical lecture using the program PowerPoint .power point	Microbiology	Bacterial growth	2	4
Daily and final exams, preparing seminars, practical activities in the laboratory	Theoretical lecture using the program PowerPoint .power point	Microbiology	Types of culture media	2	5
Daily and final exams, preparing seminars, practical activities in the laboratory	Theoretical lecture using the program PowerPoint .power point	Microbiology	Sampling and transport of test material	2	6
Daily and final exams, preparing seminars, practical activities in the laboratory	Theoretical lecture using the program PowerPoint .power point	Microbiology	Laboratory cultivation of microorganisms	2	7
Daily and final exams, preparing seminars, practical activities in the laboratory	Theoretical lecture using the program PowerPoint .power point	Microbiology	Bacterial identification:		
			1-Macroscope characteristics	2	8

			(colonial morphology and cultural characteristics).		
Daily and final exams, preparing seminars, practical activities in the laboratory	Theoretical lecture using the program PowerPoint ,power point	Microbiology	2. Microscopical examination (morphology of bacterial cells).	2	9
Daily and final exams, preparing seminars, practical activities in the laboratory	Theoretical lecture using the program PowerPoint ,power point				
Daily and final exams, preparing seminars, practical activities in the laboratory	Theoretical lecture using the program PowerPoint ,power point	Microbiology	Staining	2	10
Daily and final exams, preparing seminars, practical activities in the laboratory	Theoretical lecture using the program PowerPoint ,power point	Microbiology	Biochemical tests (part 1).	2	11
Daily and final exams, preparing seminars, practical activities in the laboratory	Theoretical lecture using the program PowerPoint ,power point	Microbiology	Biochemical tests(part2).	2	12
Daily and final exams, preparing seminars, practical activities in the laboratory	Theoretical lecture using the program PowerPoint ,power point	Microbiology	Biochemical tests(part3).	2	13

Daily and final exams, preparing seminars, practical activities in the laboratory	Theoretical lecture using the program PowerPoint ,power point	Microbiology	Antibiotic sensitivity test(part 1).	2	14
Daily and final exams, preparing seminars, practical activities in the laboratory	Theoretical lecture using the program PowerPoint ,power point	Microbiology	Antibiotic sensitivity test(part 2).	2	15
Daily and final exams, preparing seminars, practical activities in the laboratory	Theoretical lecture using the program PowerPoint ,power point	Microbiology	Serological tests (antigen and antibody detection tests) (part 1).		16
Daily and final exams, preparing seminars, practical activities in the laboratory	Theoretical lecture using the program PowerPoint ,power point	Microbiology	Serological tests (antigen and antibody detection tests) (part 2).	2	17
Daily and final exams, preparing seminars, practical activities in the laboratory	Theoretical lecture using the program PowerPoint ,power point	Microbiology	Nucleic acid assays, Animal pathogenicity test	2	18
Daily and final exams, preparing seminars, practical activities in the laboratory	Theoretical lecture using the program PowerPoint ,power point	Microbiology	Staphylococci	2	19
Daily and final exams, preparing seminars, practical activities in the laboratory	Theoretical lecture using the program PowerPoint ,power point	Microbiology	Streptococci	2	20
Daily and final exams, preparing seminars, practical activities in the laboratory	Theoretical lecture using the program PowerPoint ,power point	Microbiology	<u>Corynebacterium</u>	2	21
Daily and final exams, preparing seminars, practical activities in the laboratory	Theoretical lecture using the program PowerPoint ,power point	Microbiology	Spore-forming Gram-positive bacilli: <u>Bacillus</u> spp.	2	22

Daily and final exams, preparing seminars, practical activities in the laboratory	Theoretical lecture using the program PowerPoint ,power point	Microbiology	<u>Clostridium</u> spp.	2	23
Daily and final exams, preparing seminars, practical activities in the laboratory	Theoretical lecture using the program PowerPoint ,power point	Microbiology	<u>Mycobacterium</u> spp.	2	24
Daily and final exams, preparing seminars, practical activities in the laboratory	Theoretical lecture using the program PowerPoint ,power point	Microbiology	Enterobacteriaceae (part1)	2	25
Daily and final exams, preparing seminars, practical activities in the laboratory	Theoretical lecture using the program PowerPoint ,power point	Microbiology	Enterobacteriaceae (part2)	2	26
Daily and final exams, preparing seminars, practical activities in the laboratory	Theoretical lecture using the program PowerPoint ,power point	Microbiology	Enterobacteriaceae(part3)	2	27

Daily and final exams, preparing seminars, practical activities in the laboratory	Theoretical lecture using the program PowerPoint ,power point	Microbiology	<u>Neisseriae</u> spp.	2	28
Daily and final exams, preparing seminars, practical activities in the laboratory	Theoretical lecture using the program PowerPoint ,power point	Microbiology	Virology	2	29
Daily and final exams, preparing seminars, practical activities in the laboratory	Theoretical lecture using the program PowerPoint ,power point	Microbiology	Mycology	2	30
			Final exam		

.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, and written exams, and reports... Etc.

7% annual effort (including daily and monthly exams and practical requirements) 20% final practical exam

.12learning sources

-Medical microbiology Jawetz, Melnick, & Adelberg's (2019) - Oral microbiology Marsh & Martin`s (2016) -Kuby Immunology Eighth Edition ©2019 -Essential Microbiology for Dentistry 5th Edition (2018)	Textbooks
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Course name: Pharmacology	.216
Course code : 317 PC	.217
Year : 2024-2025	.218

Date: 2025/5/	.219

.220	Available attendance options: Attendance in the classroom for the theoretical course
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.221	Total study hours (total)/(total units): (60 hours) theoretical/(4 study units)
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.222	Name of the course coordinator (if more than one name is mentioned)
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	Lec. Dr. kasak K.Abid kassaq.kais@uruk.edu.iq
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.223	course objectives
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Identify the most important medications that the dentist must be familiar with and scientifically familiar with Know the terminology related to medicines Enabling the student to identify the most important pharmaceutical information, such as the mechanism of action of the drug - the reasons for use and medical description - its side effects, in addition ...to Knowing the most important uses and interactions of medications in the field of dentistry	Objectives
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.224	learning strategy
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Lectures using the Point[Power] program and the smart interactive whiteboard .Show educational videos .Guiding students to some websites to benefit from them Following up on students' way of thinking, their ways of expression, and their speed of response through scientific discussions and encouraging them to carry out scientific activities	Strategy
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.10 course structure					
Evaluation method	Learning method	Topics	Outcomes	Hours	week
Daily and final exams, preparing seminars, practical activities in the laboratory	Theoretical lecture using the program PowerPoint power point	Pharmacology	Pharmacology: General concepts	2	1
Daily and final exams, preparing seminars, practical activities in the laboratory	Theoretical lecture using the program PowerPoint power point	Pharmacology	Pharmacokinetics and pharmacodynamics	2	2

Daily and final exams, preparing seminars, practical activities in the laboratory	Theoretical lecture using the program PowerPoint power point	Pharmacology	Autonomic nervous system from a pharmacological perspective (including cholinergic agonist and antagonist)	2	3
Daily and final exams, preparing seminars, practical activities in the laboratory	Theoretical lecture using the program PowerPoint power point	Pharmacology	Adrenergic agonists	2	4
Daily and final exams, preparing seminars, practical activities in the laboratory	Theoretical lecture using the program PowerPoint power point	Pharmacology	Adrenergic antagonists	2	5

Daily and final exams, preparing seminars, practical activities in the laboratory	Theoretical lecture using the program PowerPoint power point	Pharmacology	Antihypertensive drugs	2	6
Daily and final exams, preparing seminars, practical activities in the laboratory	Theoretical lecture using the program PowerPoint power point	Pharmacology	Management of angina and heart failure	2	7
Daily and final exams, preparing seminars, practical activities in the laboratory	Theoretical lecture using the program PowerPoint power point	Pharmacology	Management of arrhythmia	2	8
Daily and final exams, preparing seminars, practical activities in the laboratory	Theoretical lecture using the program PowerPoint power point	Pharmacology	Anticoagulants, antiplatelet and anti-hyperlipidemic drugs and Local Hemostatic Agents in Dentistry	3	9
Daily and final exams, preparing seminars, practical activities in the laboratory	Theoretical lecture using the program PowerPoint power point	Pharmacology	Introduction the pharmacology of CNS drugs, sedative, hypnotics and antiseizures drugs	2	10
Daily and final exams, preparing seminars, practical activities in the laboratory	Theoretical lecture using the program PowerPoint power point	Pharmacology	Antipsychotic and antidepressant drugs	2	11

Daily and final exams, preparing seminars, practical activities in the laboratory	Theoretical lecture using the program PowerPoint power point	Pharmacology	Local and general anesthetics	2	12
Daily and final exams, preparing seminars, practical activities in the laboratory	Theoretical lecture using the program PowerPoint power point	Pharmacology	Drug of abuse and opioid analgesics	2	13
Daily and final exams, preparing seminars, practical activities in the laboratory	Theoretical lecture using the program PowerPoint power point	Pharmacology	Managements of diabetes mellitus	2	14
Daily and final exams, preparing seminars, practical activities in the laboratory	Theoretical lecture using the program PowerPoint power point	Pharmacology	Drugs affecting GIT	2	15
		Pharmacology	Half-year Break		
Daily and final exams, preparing seminars, practical activities in the laboratory	Theoretical lecture using the program PowerPoint power point	Pharmacology	Drugs acting on respiratory system (antihistamines and corticosteroids)	3	16
Daily and final exams, preparing seminars, practical activities in the laboratory	Theoretical lecture using the program PowerPoint power point	Pharmacology	Non-steroidal anti-inflammatory drugs (NSAIDs) part 1	2	17

Daily and final exams, preparing seminars, practical activities in the laboratory	Theoretical lecture using the program PowerPoint power point	Pharmacology	Non-steroidal anti-inflammatory drugs (NSAIDs) part2 and Steroids in Dentistry	2	18
Daily and final exams, preparing seminars, practical activities in the laboratory	Theoretical lecture using the program PowerPoint power point	Pharmacology	Chemotherapeutic drugs (Principles of antimicrobial therapy)	2	19
Daily and final exams, preparing seminars, practical activities in the laboratory	Theoretical lecture using the program PowerPoint power point	Pharmacology	Cell wall inhibitors (part1)	2	20
	power point				
Daily and final exams, preparing seminars, practical activities in the laboratory	Theoretical lecture using the program PowerPoint power point	Pharmacology	Cell wall inhibitors (part 2)	2	21
Daily and final exams, preparing seminars, practical activities in the laboratory	Theoretical lecture using the program PowerPoint power point	Pharmacology	Protein synthesis inhibitors	2	22
Daily and final exams, preparing seminars, practical activities in the laboratory	Theoretical lecture using the program PowerPoint power point	Pharmacology	Quinolones, Folic acid antagonists and antimycobacterial	3	23

Daily and final exams, preparing seminars, practical activities in the laboratory	Theoretical lecture using the program PowerPoint power point	Pharmacology	Antifungal, antiviral and antiprotozoal drugs	2	24
Daily and final exams, preparing seminars, practical activities in the laboratory	Theoretical lecture using the program PowerPoint power point	Pharmacology	Sex hormone and contraceptive	2	25
Daily and final exams, preparing seminars, practical activities in the laboratory	Theoretical lecture using the program PowerPoint power point	Pharmacology	Thyroid hormones and anti-thyroid drugs	2	26
Daily and final exams, preparing seminars, practical activities in the laboratory	Theoretical lecture using the program PowerPoint power point	Pharmacology	Anticancer drugs	1	27
Daily and final exams, preparing seminars, practical activities in the laboratory	Theoretical lecture using the program PowerPoint power point	Pharmacology	Dental Pharmacology: drugs and chemicals used in dental clinic	1	28
Daily and final exams, preparing seminars, practical activities in the laboratory	Theoretical lecture using the program PowerPoint power point	Pharmacology	Anticaries and drugs used in prevention of dental plaque	1	29

Daily and final exams, preparing seminars, practical activities in the laboratory	Theoretical lecture using the program PowerPoint power point	Pharmacology	Essential emergency drugs in dental clinic	2	30
Final exam					
.11 course evaluation					
<p>Distribution of grades from 100 players according to the student's choice, such as daily preparation, daily, oral, monthly, written exams, reports, etc</p> <p>%15half the year</p> <p>%25to spend time with (including daily and monthly exams, requirements, and practical activities)</p> <p>%20final exam 40% final exam</p> <p>12.Learning and teaching resources</p>					
1- Pharmacology (Lippincott Illustrated Reviews Series) 8th Edition (2024) 2- Contemporary Dental Pharmacology: Evidence-Based Considerations 1st ed (2019) 3- Basic & Clinical Pharmacology (sixteenth Edition,2024)			Main references (sources)		
<ul style="list-style-type: none"> Pharmacology and Therapeutics for Dentistry (7th edition, 2017) 			Recommended supporting books and references (scientific journals,reports)		
<ul style="list-style-type: none"> 					

Course name: Pharmacology	.225
Course code: PC317	.226
Year : 2024-2025	.227
Date: 2025/5/	.228

Attendance at the lab .229	
230. Number of study hours (total/(number of units) (total): 60 hours (practical/) 2 study units	
.231 administrator	
Lec. Dr. kasak K.Abid kassaq.kais@uruk.edu.iq	
.232 course objectives	
<ul style="list-style-type: none"> • Preparing the student practically in terms of applying the acquired knowledge • Thinking about problem-solving • Developing the student's ability to deal with various learning methods • Familiarizing with the most important medications that a dentist should know and understand scientifically • Understanding the terminology related to medications • Enabling the student to learn the most important pharmaceutical information such as the mechanism of action of the drug, indications for use and medical description, side effects, in addition to knowing the most important uses and interactions of medications in the field of dentistry • Training students to write and master the medical prescription 	Objectives
.233 learning strategy	
<ul style="list-style-type: none"> • Conducting practical experiments to enhance student understanding and comprehension • Lectures using PowerPoint program . • Guiding students to some websites for their benefit. • Monitoring students' thinking patterns, expression methods, and response speed through scientific discussions and practical activities. 	Strategy

.10 course structure					
Evaluation method	Learning method	Topics	Outcomes	Hours	week
Daily and final exams, preparing seminars, practical activity in the laboratory	Theoretical lecture using the program (power point PowerPoint)	Pharmacology	Introduction and animal (e.g rabbits) handling	2	1
Daily and final exams, preparing seminars, practical activity in the laboratory	Theoretical lecture using the program (power point PowerPoint)	Pharmacology	Routes of drug administration (Oral route) -Part 1	2	2
Daily and final exams, preparing seminars, practical activity in the laboratory	Theoretical lecture using the program (power point PowerPoint)	Pharmacology	Routes of drug administration (Parenteral route)- Part 2	2	3
Daily and final exams, preparing seminars, practical activity in the laboratory	Theoretical lecture using the program (power point PowerPoint)	Pharmacology	Clinical parameters in drug pharmacokinetics (Part 1)	2	4
Daily and final exams, preparing seminars, practical activity in the laboratory	Theoretical lecture using the program (power point PowerPoint)	Pharmacology	Clinical parameters in drug pharmacokinetics (Part 2)	2	5
Daily and final exams, preparing seminars, practical activity in the laboratory	Theoretical lecture using the program (power point PowerPoint)	Pharmacology	Demonstration of common dosage forms used in clinical practice (Part 1)	2	6
Daily and final exams, preparing seminars, practical activity in the laboratory	Theoretical lecture using the program (power point PowerPoint)	Pharmacology	Demonstration of common dosage forms used in dentistry (Part 2)	2	7
Daily and final exams, preparing seminars, practical activity in the laboratory	Theoretical lecture using the program (power point PowerPoint)	Pharmacology	Cholinergic agonists and antagonists (Physostigmine Vs Curare)	2	8
Daily and final exams, preparing seminars, practical activity in the laboratory	Theoretical lecture using the program (power point PowerPoint)	Pharmacology	Effects of Drugs on Human Blood Pressure (Part 1-B-Blockers)	2	9
Daily and final exams, preparing seminars, practical activity in the laboratory	Theoretical lecture using the program (power point PowerPoint)	Pharmacology	Effects of Drugs on Human Blood Pressure (Part 2) (Nitrates Effect on Human Volunteers)	2	10
Daily and final exams, preparing seminars, practical activity in the laboratory	Theoretical lecture using the program (power point PowerPoint)	Pharmacology	Effects of Drugs on The Arterial Blood Pressure of Human (Part-3)	2	11
Daily and final exams, preparing seminars, practical activity in the laboratory	Theoretical lecture using the program (power point PowerPoint)	Pharmacology	The effects of drugs and light on human eyes	2	12
Daily and final exams, preparing seminars, practical activity in the laboratory	Theoretical lecture using the program (power point PowerPoint)	Pharmacology	The effects of drugs and light on animal eyes	2	13
Daily and final exams, preparing seminars, practical activity in the laboratory	Theoretical lecture using the program (power point PowerPoint)	Pharmacology	Effects of parasympathomimetic	2	14

			drugs on glandular secretions		
Daily and final exams, preparing seminars, practical activity in the laboratory	Theoretical lecture using the program ·power point PowerPoint	Pharmacology	The response of human skin to histamine and adrenaline	2	15
Mid-term exam					
Daily and final exams, preparing seminars, practical activity in the laboratory	Theoretical lecture using the program ·power point PowerPoint	Pharmacology	Effects of Antiepileptics	2	16
Daily and final exams, preparing seminars, practical activity in the laboratory	Theoretical lecture using the program ·power point PowerPoint	Pharmacology	Evaluation of Analgesics	2	17
Daily and final exams, preparing seminars, practical activity in the laboratory	Theoretical lecture using the program ·power point PowerPoint	Pharmacology	Evaluation of analgesics (Opioids)	2	18
Daily and final exams, preparing seminars, practical activity in the laboratory	Theoretical lecture using the program ·power point PowerPoint	Pharmacology	Evaluation of Anti-inflammatory Drugs	2	19
Daily and final exams, preparing seminars, practical activity in the laboratory	Theoretical lecture using the program ·power point PowerPoint	Pharmacology	Local Anaesthesia	2	20
Daily and final exams, preparing seminars, practical activity in the laboratory	Theoretical lecture using the program ·power point PowerPoint	Pharmacology	General Anaesthesia	2	21
Daily and final exams, preparing seminars, practical activity in the laboratory	Theoretical lecture using the program ·power point PowerPoint	Pharmacology	Prescription writing (Part 1)	2	22
Daily and final exams, preparing seminars, practical activity in the laboratory	Theoretical lecture using the program ·power point PowerPoint	Pharmacology	Prescription writing (Part 2)	2	23
Daily and final exams, preparing seminars, practical activity in the laboratory	Theoretical lecture using the program ·power point PowerPoint	Pharmacology	Prescription writing (Part 3)	2	24
Daily and final exams, preparing seminars, practical activity in the laboratory	Theoretical lecture using the program ·power point PowerPoint	Pharmacology	Oral conditions and their treatment	2	25
Daily and final exams, preparing seminars, practical activity in the laboratory	Theoretical lecture using the program ·power point PowerPoint	Pharmacology	Prescription writing for some general conditions commonly encountered in clinical practice	2	26
Daily and final exams, preparing seminars, practical activity in the laboratory	Theoretical lecture using the program ·power point PowerPoint	Pharmacology	Toothpastes and mouthwashes	2	27

Daily and final exams, preparing seminars, practical activity in the laboratory	Theoretical lecture using the program 'power point PowerPoint	Pharmacology	Oro dental preparation (part 1)	2	28
Daily and final exams, preparing seminars, practical activity in the laboratory	Theoretical lecture using the program 'power point PowerPoint	Pharmacology	Oro dental preparation (Part 2)	2	29
Daily and final exams, preparing seminars, practical activity in the laboratory	Theoretical lecture using the program 'power point PowerPoint	Pharmacology	Dental health and endocarditis prevention	2	30
Final exam					
.11 course structure					
Distribution of a score out of 100 according to the student's choice for daily preparation, daily, oral .and monthly exams, editing, reports...etc per year (includes daily and monthly exams %7 and test requirements) 20% final exam					
.12 learning resources					
4- Pharmacology (Lippincott Illustrated Reviews Series) 8th Edition (2024) 5- Contemporary Dental Pharmacology: Evidence-Based Considerations 1st ed (2019) 6- Basic & Clinical Pharmacology (sixteenth Edition,2024)			Main sources		
• Pharmacology and Therapeutics for Dentistry (7 th edition, 2017)			Textbooks		
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Course name : community dentistry	.234
Course code : 317CU	.235
Year : 2024-2025	.236
Date: 2025/5/	.237

.238 Formas de asistencia disponibles: Asistencia en el aula para el curso teórico	
239 Total study hours (total)/(total units): (30 theoretical hours (2 units) + 60 practical hours (2 units))	
240 Name of the course coordinator (if there is more than one name mentioned)	
Assist. Lec.. Yasir Basim Abdul Ali Yasir.basim.abid@uruk.edu.iq assist. Lec.. Najlaa Salah Mahdi najlaa.salah@uruk.edu.iq	
.241 course objectives	
<ul style="list-style-type: none"> • Provides information to students about understanding and identifying oral diseases and measuring them in the community. • Control and prevention of oral diseases in the community through preventive programs 	Objectives
.242 strategy	
. 1 Lectures using the show) (data program Educational movies. LCD.3 .4 Smart Boards .5 Electronic Classes	Strategy

.10 Course structure (theoretical)					
Evaluation method	Learning method	Topics		Hours	Week
Daily, monthly, semi-annual, and final exams	Theoretical	Dental public health -Public health definition. -Dental Public health definition. - Community Dentistry. - Dental public health practitioners. - Public health impact of dental disease.		1	1

		<ul style="list-style-type: none"> - Tools of dental public health. 1-Epidemiology. 2-Biostatistics. 3- Social sciences. 4- Principles of administration. 5- Preventive dentistry. 			
Daily, monthly, semi-annual, and final exams	Theoretical	<ul style="list-style-type: none"> -Dental public care - Steps in planning dental care for the patient - Steps in planning dental care for the community - Similarities between personal and community health care: - Differences between private dental practice and public health dentistry 		1	2
Daily, monthly, semi-annual, and final exams	Theoretical	<p>Epidemiology</p> <ul style="list-style-type: none"> - Objectives of epidemiology. - Components of epidemiological study. - Essential steps in an epidemiological study. - Hypothesis. - Population at risk. - Morbidity. - Measurements of disease frequency. <p>Epidemiological approach.</p> <ul style="list-style-type: none"> - Measurement tools in epidemiology. 		1	3
Daily, monthly, semi-annual, and final exams	Theoretical	<p>Epidemiological studies</p> <p>Types of Epidemiological studies:</p> <p>1-Observational studies</p> <p>Types of observational studies</p> <ul style="list-style-type: none"> - Descriptive studies. -Analytical studies. <p>Case control studies</p> <p>Cohort studies</p> <p>Ecological studies.</p>		1	4
		<p>2-Experimental studies</p> <ul style="list-style-type: none"> -Intervention <p>Types of experimental studies</p>		1	5
Daily, monthly, semi-annual, and final exams	Theoretical	<p>Epidemiology of dental caries</p> <ul style="list-style-type: none"> - Definition of dental caries - Epidemiology 		1	6

		<ul style="list-style-type: none"> -Etiological factors of dental caries -Types of dental caries according to their anatomical (location) site. - Factors affecting epidemiology of dental caries 			
		<ul style="list-style-type: none"> Epidemiology of Periodontal Disease -Periodontal Diseases definition -Structure of the periodontal tissues -Epidemiology -Etiology of periodontal disease 		1	7
Daily, monthly, semi-annual, and final exams	Theoretical	<ul style="list-style-type: none"> Epidemiology of Oral Cancer - Types of cancers - Etiology of oral cancer - Constituents of tobacco smoke - Potentially malignant lesions - Levels of prevention for oral cancer - Rehabilitation after Oral Cancer 		1	8
		<ul style="list-style-type: none"> Dental indices - Index - Uses of dental index - Classification of indices 		1	9
Daily, monthly, semi-annual, and final exams	Theoretical	<ul style="list-style-type: none"> Indices used for assessment of dental caries -DMF index -Principles in recording DMF index - Calculation of DMFT/DMFS - Dental caries severity index - dmf index 		1	10
		<ul style="list-style-type: none"> Indices used for assessment of periodontal disease - Oral Hygiene Indices: - Gingival inflammation indices - Periodontal indices 		1	11
Daily, monthly, semi-annual, and final exams	Theoretical	<ul style="list-style-type: none"> Dental fluorosis -Indices for assessment of dental fluorosis 		1	12
		<ul style="list-style-type: none"> Biostatistics - Data - Types of data 		1	13

		<ul style="list-style-type: none"> - Methods of Data Collection -Sampling Technique -Types of sample design 			
		Data presentation <ul style="list-style-type: none"> - Methods of data presentation -The tabulation of data. -The graphical representation of data 		1	14
Daily, monthly, semi-annual, and final exams	Theoretical	Measures of central tendency & dispersion <ul style="list-style-type: none"> -Measures of central tendency -Measures of dispersion. 		1	15
		Fluoridation as a public health measure <ul style="list-style-type: none"> - History: - Sources of Fluoride -Water fluoridation -Types of fluoride 		1	16
Daily, monthly, semi-annual, and final exams	Theoretical	Fluoridation Mechanism and Effects <ul style="list-style-type: none"> Mechanism of action -Anti-caries effects of fluoride. -Metabolism of fluoride. -Dental Fluorosis -Side effects of fluoride 		1	17
		Occupational hazards in dentistry <ul style="list-style-type: none"> - Major occupational hazards -Biological health hazards. -Physical hazards -Chemical hazards -Musculoskeletal disorders and diseases of the peripheral nervous system -Hearing loss -Radiation exposure -Stress -Legal hazards -Other risks 		1	18
Daily, monthly, semi-annual, and final exams	Theoretical	Environment and health <ul style="list-style-type: none"> - Environment -Physical environment: 		1	19

		<ul style="list-style-type: none"> -Biological environment: -Psychological environment - Environmental indicators 			
		Effects of air pollution on health -Prevention and control of air pollution - Effects of radiation -Noise pollution		1	20
Daily, monthly, semi-annual, and final exams	Theoretical	School Dental Health Program - Purpose of School Health Program - Guidelines for an ideal school dental program - School dental survey - phases in school oral health program		1	21
		Treatment need and demand - Need - categories of need - Demand - Factors affecting dental demands		1	22
Daily, monthly, semi-annual, and final exams	Theoretical	- Dental manpower - Manpower definition - Dental health manpower planning -Steps in dental health manpower planning		1	23
		Ethics in dentistry -Definition of ethics - Dentistry as a profession - Ethical principles		1	24
Daily, monthly, semi-annual, and final exams	Theoretical	Oral health care for special populations - Elderly people: - The main oral effects of aging - Pregnant women - Special Care Dentistry - Patients with special health care needs		1	25
		Forensic dentistry -Introduction -Application of forensic dentistry. -Bit marks -Person identification. -Dental identification.		1	26

		Dental auxiliary personal -Introduction. - Dental auxiliary classification. *Non operator auxiliary. * Operator auxiliary. -Four handed relationship.		1	27
Daily, monthly, semi-annual, and final exams	Theoretical	Primary health care - Introduction. -Elements (components) of Primary health care. -Principles of Primary health care. - Primary dental health care. -Community dental health services.		1	28
		Infection control - Introduction. -Concept of disease transmission. -The acquisition means of pathogens. -Transmission of infectious diseases. -Control of infectious diseases. -Personal barrier techniques. -Instrument processing(sterilization).		1	29
Daily, monthly, semi-annual, and final exams	Theoretical	Dental health education - Introduction. -Aims of health education. -Objective of health education. - Objective of dental health education. -Principle of health education. -Planning a health education programs.		1	30
Course structure (practical part)					

Evaluation method	Learning method	Course syllabus	Hours	Week
Short exams and practical exams for clinical examination	Theoretical lecture Using PowerPoint program	Patient's examination & Case sheet	2	1

Short exams and practical exams for clinical examination	Theoretical lecture Using PowerPoint program	Patient's and Operators positions in Dentistry	2	2
Short exams and practical exams for clinical examination	Theoretical lecture Using PowerPoint program	Clinical examination	2	3
Short exams and practical exams for clinical examination	Theoretical lecture Using PowerPoint program	Basic tooth numbering	2	4
Short exams and practical exams for clinical examination	Theoretical lecture Using PowerPoint program	Clinical examination	2	5
Short exams and practical exams for clinical examination	Theoretical lecture Using PowerPoint program	Indices	2	6
Short exams and practical exams for clinical examination	Theoretical lecture Using PowerPoint program	Dental caries	2	7
Short exams and practical exams for clinical examination	Theoretical lecture Using PowerPoint program	Theories of caries formation	2	8
Short exams and practical exams for clinical examination	Theoretical lecture Using PowerPoint program	Dental caries indices	2	9

Short exams and practical exams for clinical examination	Theoretical lecture Using PowerPoint program	Clinical examination	2	10
Short exams and practical exams for clinical examination	Theoretical lecture Using PowerPoint program	Clinical examination	2	11
Short exams and practical exams for clinical examination	Theoretical lecture Using PowerPoint program	Deciduous teeth	2	12
Short exams and practical exams for clinical examination	Theoretical lecture Using PowerPoint program	Clinical examination	2	13
Short exams and practical exams for clinical examination	Theoretical lecture Using PowerPoint program	Clinical examination	2	14
Short exams and practical exams for clinical examination	Theoretical lecture Using PowerPoint program	Prevention of dental caries / part 1	2	15
Short exams and practical exams for clinical examination	Theoretical lecture Using PowerPoint program	Prevention of dental caries / part 2	2	16
Short exams and practical exams for clinical examination	Theoretical lecture Using PowerPoint program	Fluoride	2	17
Short exams and practical exams for clinical examination	Theoretical lecture Using PowerPoint program	Periodontal diseases	2	18

Short exams and practical exams for clinical examination	Theoretical lecture Using PowerPoint program	Indices for plaque assessment	2	19
Short exams and practical exams for clinical examination	Theoretical lecture Using PowerPoint program	Clinical examination	2	20
Short exams and practical exams for clinical examination	Theoretical lecture Using PowerPoint program	Clinical examination	2	21
Short exams and practical exams for clinical examination	Theoretical lecture Using PowerPoint program	Indices for calculus assessment	2	22
Short exams and practical exams for clinical examination	Theoretical lecture Using PowerPoint program	Clinical examination	2	23
Short exams and practical exams for clinical examination	Theoretical lecture Using PowerPoint program	Clinical examination	2	24
Short exams and practical exams for clinical examination	Theoretical lecture Using PowerPoint program	Gingival disease indices	2	25
Short exams and practical exams for clinical examination	Theoretical lecture Using PowerPoint program	Clinical examination	2	26
Short exams and practical exams for clinical examination	Theoretical lecture Using PowerPoint program	Measuring prevalence of oral diseases	2	27

Short exams and practical exams for clinical examination	Theoretical lecture Using PowerPoint program	Periodontal diseases prevention	2	28
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Short exams and practical exams for clinical examination	Theoretical lecture Using PowerPoint program	Tooth brushing	2	29
Short exams and practical exams for clinical examination	Theoretical lecture Using PowerPoint program	Clinic.....assistant	2	30

.11 course evaluation

Distributing 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.

15% midterm

25% annual effort (includes summer training, daily and monthly exams, and practical requirements) 20% final practical exam

40% final theoretical exam

.12 learning resources

1. Textbook of Preventive and Community Dentistry/ Public Health Dentistry 3 rd edition by Joseph John, 2017. 2-Oral Epidemiology by Marco A. Peres • Jose Leopoldo Ferreira Antunes Richard G. Watt, 2021. 3-Textbook of Public Health Dentistry, 3 rd Edition, 2016.	Required textbooks (methodology if available)
-Essential Dental Public Health 2 nd ed by Blana D, Paul B, Elizabeth T, Richard W, 2013 -Essentials of preventive and community dentistry by Peter, 2003 -Essential Dental Public Health 2 nd ed by Blana D, Paul B, Elizabeth T, Richard W, 2013	Main references (sources)
-International dental journal -Community dental health -British dental journal -Australian dental journal	Recommended supporting books and references (scientific journals, reports, etc.)
•	

.243 course name: conservative dentistry	
.244 code Course : 319CV	
.245 year :2024 -2025	
.246 Date: 2025/5/	
.247 Forms the audience Available :presence in The hall Academic For the material Theory	
.248 number watches Academic Total / (Number) Units (total) : 60 (study units 4) Theoretical hour / 120 lonliness working hours (4 (study)	
.249 onsible The decision Academicname resp) if more From a male name(
M.M. Wassan Mohammed Hassoun M.M. Amjad Majeed Khalafamjed.m.khalaf@uruk.edu.iq	
.250Goals The decision	
It is done training Students on a job Fillings And ostly digging teeth Industrial On heads Gh especially To train them before Getting started By processing patients Clinically	Goals The material Academic
.251Strategies education and learning	
<ul style="list-style-type: none"> •an offer The material Theory And explain it In detail on screen smart •nd the responseUse road excitement A •urge Students on Use skills thinking Solution problems •create spirit Competition Scientific between Students on road Questions Direct And other Direct Related By the material Scientific •tracking road thinking students and ir expression And methods The Their response speed 	Strategy
.10 Structure The decision	

road Evaluation	road theoretical learning or practical	name Unity or the topic	Learning outcomes Required	watches	week
Daily exams And monthly -Semi annual And final	Theoretical lecture using the program PowerPoint power point	Definitions:			
		-Introduction to Fixed Prosthodontics. -Types of crowns -Purposes of crown construction -Steps in crown construction -Components of bridge.		1	1
		Definition of operative dentistry:		1	
		a-Aim of operative dentistry			
		b- General terminology			
Daily exams And monthly -Semi annual And final	Theoretical lecture using the program PowerPoint power point	Definitions (continued):	Cognitive objectives A-1 formulation Information and programming In a way maybe The student from Absorb and increase knowledge While It concerns sides theoretic al And practical A-2 Providing important information Treatm ent steps	1	2
		Principles of cavity preparations: a- Steps of cavity preparation b- Types of caries		1	
Daily exams And monthly -Semi annual And	Theoretical lecture using the program PowerPoint	Definitions (continued):		1	3
		Hand and rotary instruments and general instrumentation of cavity preparation		1	

final	power point				
Daily exams And monthly -Semi annual And final	Theoretical lecture using the program PowerPoint power point	Biomechanical principles of tooth preparation: *Preservation of sound tooth *Retention and resistance form. *Marginal integrity *Structural durability		1	4
		Sterilization of operative instruments		1	
Daily exams And monthly annual -Semi And final		Biomechanical principles of tooth preparation (continued):		1	5
	Theoretical lecture using the program PowerPoint power point	Amalgam cavity preparations for class 1 (buccal pit, palatal pit)		1	
		Biomechanical principles of			
		tooth preparation (continued:)		1	
Daily exams And monthly -Semi annual And final	Theoretical lecture using the program PowerPoint power point				6
		Amalgam cavity preparations for class 1 (lower 2nd premolar, lower 1 st premolar		1	
		Full metal			
		crown:Indications,contra -			
Daily exams And monthly -Semi annual And	Theoretical lecture using the program PowerPoint	indications, advantages, disadvantages, steps of preparation.		1	7

final	power point				
		Amalgam cavity preparations for			
		class 1(upper 1 st molar with			
		palatal extension			
		Full metal crown (continued):			
Daily And exams monthly -Semi annual And final	a lecture theory Using program power point			1	8
		Amalgam cavity preparations for class 1(lower 1 st molar with			
		palatal extension			
		Porcelain fused to metal			
		crown:Indications,contra -			
Daily nd exams A monthly -Semi annual And final	Theoretical lecture using the program PowerPoint power point	indications,advantages , disadvantages, steps of preparation		1	9
		Amalgam cavity preparations for			
		class II (part 1)		1	
Daily exams And monthly - Semi annual And final	Theoretical lecture using the program PowerPoint power point	Porcelain fused to metal crown (continued):		1	10

		Amalgam cavity preparations for class II(part 2)	1	
		Complete ceramic crown		
		(Porcelain Jacket		
Daily exams And monthly An annual -Semi And final	Theoretical lecture using the program PowerPoint power point	Crown: Indications, contra - indications,advantages , disadvantages, steps of preparation	1	11
		Amalgam cavity preparations for	1	
		class I1 MOD		
		Complete ceramic crown		
Daily exams And monthly annual -Semi And final	Theoretical lecture using the program PowerPoint power point	(Porcelain Jacket Crown(continued):	1	12
		Amalgam cavity preparations for class III	1	
Daily exams And monthly annual - Semi And final	Theoretical lecture using the program PowerPoint power point	Partial veneer crown(three -quarter crown): Indications, contra - indications, advantages , disadvantages, steps of preparation	1	13
		Amalgam cavity preparations for class V	1	
Daily exams And monthly annual -Semi And final	Theoretical lecture using the program PowerPoint power point	Partial veneer crown (three-quarter crown):	1	14
		Cavity liners and cement bases	1	

Daily exams And monthly annual-Semi And final	Theoretical lecture using the program PowerPoint power point	Post crown: Indications, contra-indications, factors to be considered in the assessment of a tooth for post	1	15
		cement bases (Zinc phosphate cement, Zinc oxide - eugenol cements	1	
Daily exams And monthly annual -Semi And final	Theoretical lecture using the program PowerPoint power point	Post crown (continued):	1	16
		cement bases (Zinc polycarboxylate cement, Glass ionomer cement, Resin cement	1	
Daily exams And monthly annual -Semi And final	Theoretical lecture using the program PowerPoint power point	Impression for crown and bridge work: -Objectives of taking impression. -Requirements of and acceptable impression. -Impression materials. -Impression techniques	1	17
		. Cavity liner (cavity varnish, Bonding, Calcium hydroxide)	1	
Daily exams And monthly annual -Semi And final	Theoretical lecture using the program PowerPoint power point	Impression for crown and bridge work (continued):	1	18
		Dental amalgam alloys (material)	1	
Daily exams And monthly annual -Semi And final	Theoretical lecture using the program PowerPoint power point	Impression for crown and bridge work (continued):	1	19

		Dental amalgam placement (part 1)		1	
Daily exams And monthly annual -Semi And final	Theoretical lecture using the program PowerPoint power point	Provisional restoration: Definition, objectives, types(prefabricated, custom- made, and laboratory -made)		1	20
		Dental amalgam placement (part 2)		1	
Daily exams And monthly annual -Semi And final	Theoretical lecture using the program PowerPoint power point	Provisional restoration (continued):		1	21
		Complex amalgam restoration		1	
Daily exams And monthly annual -Semi And final	Theoretical lecture using the program PowerPoint power point	Working cast and dies: Advantages of working cast, definition of die, types of die material, techniques of producing die		1	22
		Pin retained amalgam restoration		1	
Daily exams And monthly annual - Semi And final	Theoretical lecture using the program PowerPoint power point	Working cast and dies (continued):		1	23
		Failures in amalgam restorations		1	
Daily exams And monthly annual -Semi And final	Theoretical lecture using the program PowerPoint power point	Waxing.		1	24
		Tooth colored restorations composite		1	
Daily exams And monthly annual -Semi And final	Theoretical lecture using the program PowerPoint	Investing.		1	25

	power point				
		Composite resin (material)		1	
Daily exams And monthly annual -Semi And final	Theoretical lecture using the program PowerPoint power point	Casting.		1	26
		Principles of cavity preparation for composite restoration (CL III, IV and V)		1	
Daily exams And monthly annual -Semi And final	Theoretical lecture using the program PowerPoint power point	Finishing of the casting		1	27
		Composite resin placement (part 1)		1	
Daily exams And monthly annual -Semi And final	Theoretical lecture using the program PowerPoint power point	Clinical try- in		1	28
		Composite resin placement (part 2)		1	
Daily exams And monthly annual -Semi And final	Theoretical lecture using the program PowerPoint power point	Cementation: Types of cements used for - cementation of crown restoration -Techniques of cementation		1	29
		Failures in anterior restorations		1	
Daily exams And monthly annual -Semi And final	Theoretical lecture using the program PowerPoint power point	Cementation (continued):		1	30

Decisions laboratoryFillings		
number watches	the address	
2	Introduction to operative dentistry, and to work in phantom lab. Demonstration about the rotary instrument, and how to cut geometrical cavities (circle, triangle, and dove- tail and leave students to work under supervision	
2	Demonstration of how to use phantom head, working positions for both student and phantom head, also demonstration cavity preparation on buccal pit of lower 1 st molar and palatal pit of upper lateral incisor	
2	Demonstration of principles of amalgam cavity preparation for CL I on the occlusal surface of lower 2nd premolar on the board then do demonstration of cutting on the phantom head. Quiz about the principles of CL I amalgam cavity preparation	3
2	Demonstration amalgam CL I cavity for lower 1 st premolar and Leave students to work under supervision	4
2	Demonstration amalgam CL I cavity for upper 1 st molar (two separated cavities) on the phantom head and teaching the students how to work indirectly by using mirror. Leave students to work under supervision	5
2	Demonstration amalgam cavity for the palatal extension in upper 1 st molar (continue with last lab in distal occlusal cavity), and Demonstration on the hand instrument groups, and teach students to differentiate between them.	6
2	Practical assessment for the students in amalgam CL I cavity on lower 1 st molar. Oral quiz on the hand instrument and their groups.	7
2	Demonstration amalgam CL II MO cavity for lower 1st premolar	8
2	Demonstration amalgam CL II MO cavity for upper 1 st molar	9
2	Practical assessment for the students in amalgam CL II MO cavity on lower 1 st molar. Quiz in amalgam CL II cavity lectures	10
2	Demonstration amalgam CL II MOD cavity for lower 1 st molar	11
2	Demonstration amalgam CL II MOD cavity for upper 2nd molar	12
2	Practical assessment for the students in cavity preparation of amalgam CL II MOD cavity on lower 2nd molar	13
2	Demonstration amalgam CL V cavity for lower 2nd premolar, upper 1 st molar and upper 2 nd premolar.	14
2	Demonstration amalgam CL III cavity in distal side of upper canine	15
2	Demonstration of the liner and base placement, their indication, advantage, and uses.	16
2	Supervised students in mixing and placing zinc phosphate cement in CL II DO cavity of lower 2nd premolar	17

2	Supervised students in mixing and placing zinc phosphate cement in CL II MO cavity of upper 1 st molar and CL II MOD cavity of lower 2nd molar..	18
2	Practical assessment for the students in zinc phosphate mixing and placement in CL II MOD cavity on lower 1 st molar	19
2	Amalgam filling of CL I cavity of lower 1st premolar	20
2	Amalgam filling of CL II cavity of lower 2nd premolar.	21
2	Amalgam filling of CL II cavity of upper 1st molar	22
2	Amalgam filling of CL II MOD cavity of upper 2nd molar	23
2	Practical assessment on Amalgam filling of CL II MOD cavity of lower 1st molar	24
2	Amalgam filling of CL V cavities of upper 1st molar and lower 2nd premolar	25
2	Preparation of CL III composite cavity on upper central incisor with composite filling placement (light cure)	26
2	Preparation of CL III composite cavity on upper lateral incisor with composite filling placement (light cure)	27
2	Preparation of CL V composite cavity on upper central incisor with composite filling placement (light cure).	28
2	Final practical assessment	29
2	Finishing and evaluation of the practical work	30
60hour		the total
nd bridgesDecisions laboratory crowns a		
2	Introduction on the lab work, phantom heads and teeth manikins	1
2	Demonstration about the rotary instrument and how to cut geometrical cavities (Part 1).	2
2	Demonstration about the rotary instrument and how to cut geometrical cavities (Part 2).	3
2	Demonstration on full metal crown preparation on lower 1 st molar	4
2	Demonstration on full metal crown preparation on lower 2nd molar	5
2	Practicing lab under supervision	6
2	Practicing lab under supervision	7
2	Practical assessment of full metal crown preparation on lower 1 st molar	8
2	Demonstration on porcelain fused to metal crown preparation on upper central incisor	9
2	Demonstration on porcelain fused to metal crown preparation on upper lateral incisor	10
2	Practicing lab under supervision	11
2	Practicing lab under supervision	12
2	Practical assessment of porcelain fused to metal crown preparation on upper central incisor	13
2	Demonstration on post crown preparation on upper canine	14

2	Demonstration on post crown preparation on lower 1 st premolar	15
2	Practicing lab under supervision	16
2	Practicing lab under supervision	17
2	Practical assessment of post crown preparation on upper canine	18
2	Demonstration on special tray construction	19
2	Demonstration on impression materials used in Fixed Prosthodontics.	20
2	Demonstration on impression techniques in Fixed Prosthodontics.	21
2	Demonstration on die construction using dowel pin.	22
2	Demonstration on provisional restoration (Part 1): Materials.	23
2	Demonstration on provisional restoration (Part 2): Techniques.	24
2	Demonstration on direct waxing for post crown construction on upper canine	25
2	Demonstration on indirect waxing technique.	26
2	Demonstration on investing and casting	27
2	Demonstration on cleaning and finishing of the cast restoration	28
2	Final assessment of the practical work.	29
2	Final practical exam.	30
60hour		the total

.11 rating The decision

Grade distribution of 100 on according to Tasks The person in ration Daily and daily exams charge The student has it Like prepa and oral And monthly and editorial And reports.....etc

15% half year

25% striving annual) Includes Training Summer and exams Daily And monthly and requirements The process(25% Exam practical Final

35% nal Exam theoretical Fi

12 sources learning and teaching

<ul style="list-style-type: none"> Contemporary fixed prosthodontics , Fundamental Consideration in Fixed Prosthodontics Art & Science of operative dentistry, Restorative Dentistry Walmsleyetal , Fundamental in Operative Dentistry. Text book of operative dentistry Contemporary Fixed Prosthodontics Rosentetiel.Land.Fugimoto 	books The reporter Required(methodology if any)
	the reviewer Home Sources

•	books References chock that Recommended With it) Scientific journals, reports(.....
location College electronic•	the reviewer electronic, websites

.252 course name :

Dental radiology	
Course code :	.253
RL 320	
Year :	.254
2025-2024	
Date :	.255
2025/5/	
Attendance form: theoretical lecture at classroom	
Academic Total / (Number) Units (total) : 30 hours / 2 credit hours	.257
Administrator	.258
Prof.Luay Nafeh Fathallah luaynkaka@uruk.edu.iq	
Goals The decision	.259
<ul style="list-style-type: none"> •Rehabilitation Doctors teeth trainers on the job on various Devices rays •How to Dealing with Risks Radiation • How to a description ,reading And diagnosis various Types films rays •education Students How to Dealing with patients ter Clinics in the next And prepare them To en phase. 	Goals The material Academic
Strategies education and learning	.260
<ul style="list-style-type: none"> •Lectures theory • Exams Daily And monthly) Oral And editorial(exam half year addition to And the exam Final 	Strategy

.10 nStructure The decisio					
road Evaluation	road Learning is theoretical or practical	Name of unit or topic	Required learning outcomes	watche s	week
	theoretical	rays teeth	Physics of radiation (introduction and Definitions of nature of radiation, type of radiation		

Exams Daily -Monthly, semi annual and final			Production of radiation (x-ray machine, interaction of x-ray with matter) composition of matter	2	2 + 1
Exams Daily -Monthly, semi annual and final	theoretical	rays teeth	Film imaging (types of x-ray films, processing cycle, Dark room, intensifying screen Intraoral projection (periapical, bitewing, and occlusal radiography)	2	4 + 3
Exams Daily -Monthly, semi annual and final	theoretical	rays teeth	Factors controlling x-ray beam (dosimetry and inverse square law Projection geometry (sharpness, distortion, image characteristics and artifacts)	2	6 + 5
Exams Daily -Monthly, semi annual and final	theoretical	rays teeth	Biological effects of radiation (direct & indirect effects, deterministic and stochastic effect) Safety and Protection (source of exposure, dose limits, exposure and risk and reducing dental exposure)	2	8 + 7
Exams Daily -Monthly, semi annual and final	theoretical	rays teeth	Radiographic anatomy part 1 (teeth, supporting structures, maxilla and mid facial bones) Radiographic anatomy part 2 (mandible, TMJ, restorative materials)	2	10 + 9
Exams Daily -Monthly, semi annual and final	theoretical	rays teeth	Dental anomalies (acquired and developmental) Craniofacial anomalies (Cleft lip and palate)	2	+ 11 12
Exams Daily -Monthly, semi annual and final	theoretical	rays teeth	Panoramic radiography (principles, technique, position and interpretation)	1	13
Exams Daily -Monthly, semi annual and final	theoretical	teeth rays	Digital radiography (strength, limitations, comparing with conventional radiography and indications)	1	14
	theoretical	rays teeth	Craniofacial imaging (types, indication and		
Exams Daily -Monthly, semi annual and final			interpretation) Cephalometric imaging (technique, indications, evaluation of the image)	2	+ 15 16
	theoretical	rays teeth	Radiographical interpretations of common		
			diseases (interpretation of dental caries, and		
Exams Daily -Monthly, semi annual and final			periodontal disease) Inflammatory conditions of	2	+ 17 18
			the jaws (periapical inflammatory disease, osteomyelitis, pericoronitis)		
Exams Daily -Monthly, semi annual and final	theoretical	rays teeth	Cysts of the jaw (odontogenic and nonodontogenic cysts)	1	19

	theoretical	rays teeth			
			Computed tomography		
			(indications , strength,		
			limitations		
Exams Daily -Monthly, semi annual and final			CBCT (principles, components, strength and limitations	3	+ 20 + 21 22
			CBCT (clinical applications .		
			in maxillofacial region,		
			anatomy and		
			interpretations		
Exams Daily -Monthly, semi annual and final	theoretical	rays teeth	Patient's management (management of child patient, contrast media & localization technique	1	23
	theoretical	rays teeth	Infection control (infection		
			control in radiography clinic,		
			protection of pt., protection		
Exams Daily -Monthly, semi annual and final			of workers) Prescribing diagnostic imaging (radiologic).	2	+ 24 25
			examination and guide lines		
			for ordering imaging)		
Exams Daily -Monthly, semi annual and final	theoretical	rays teeth	Radiography & Implantology (modalities, indications)	1	26
Exams Daily -Monthly, semi annual and final	eticaltheor	rays teeth	Advanced imaging modalities (CT, MRI and ultrasound) Salivary gland disease (imaging modalities, interpretation)	2	+ 27 28
Exams Daily -Monthly, semi annual and final	theoretical	rays teeth	TMJ abnormalities (anatomy of TMJ, application)	1	29
Exams Daily -Monthly, semi annual and final	theoretical	rays teeth	Trauma (dentalalveolar trauma, dental fractures and bone fractures)	1	30
.11 rating The decision					
Grade distribution of 100 the student has it Like on according to Tasks The person in charge T preparation Daily and daily exams and oral And monthly and editorial Reports... etc. 15% half year 25% striving annual) Includes Exams Daily And monthly and discussions and requirements The process(20% Exam practical Final 40% Exam theoretical Final					
12 sources learning and teaching					
Oral radiology -Principles and interpretation (White and Pharoah's 8th ed. Essentials of Dental Radiography and Radiology				books The reporter Required Methodology that I found(
Fundamentals of oral radiology				the reviewer HomeSources	
Journal: Oral Surgery, Oral Medicine, Oral Pathology and Oral Radiology Dentomaxillofacial Radiology				books References chock that Recommended It contains)) scientific	

	journals, Reports(.....
https://radiopaedia.org/	the reviewer electronic, Sites Internet

Exams Daily -Monthly, semi annual and final	theoretical	teeth rays	Advanced imaging modalities (CT, MRI and ultrasound) Salivary gland disease (imaging modalities, interpretation)	2	+ 27 28
Exams Daily -Monthly, semi annual and final	theoretical	rays teeth	TMJ abnormalities (anatomy of TMJ, application)	1	29
Exams Daily -Monthly, semi annual and final	theoretical	rays teeth	Trauma (dentalalveolar trauma, dental fractures and bone fractures)	1	30

.11 rating The decision

Grade distribution of 100 on according to Tasks The person in student has it Like preparation Daily and daily exams charge The s and oral And monthly and editorial Reports... etc.

15% half year

25% striving annual) Includes Exams Daily And monthly and discussions and requirements The process(20% Exam practical Final

40% theoretical Final Exam

12 sources learning and teaching

<ul style="list-style-type: none"> Oral radiology -Principles and interpretation (White and Pharoah's 8th ed. Essentials of Dental Radiography and Radiology 	books The reporter Required Methodology that I found (
<ul style="list-style-type: none"> Fundamentals of oral radiology 	the reviewer HomeSources
<ul style="list-style-type: none"> Journal: <ol style="list-style-type: none"> Oral Surgery, Oral Medicine, Oral Pathology and Oral Radiology Dentomaxillofacial Radiology 	books References chock that Recommended (It contains) scientific journals, Reports(.....
<ul style="list-style-type: none"> https://radiopaedia.org/ 	the reviewer electronic, Sites Internet

Course name :	.261
Dental radiology	
Course code:	.262
RL 320	
Year :	.263
2024-2025	
Date:	.264
2025/5/	
Attendance form: theoretical lecture at classroom	
Academic Total / (Number) Units (total) : 30 hours / 2 credit hours	.257
Administrators	.258
Prof. Luay Nafeh Fathallah luaynkaka@uruk.edu.iq	
Objectives	.268
<ul style="list-style-type: none"> • Rehabilitation Doctors teeth trainers on the job on various Devices rays • And how to Dealing with Risks radiationH prevention patients And the workers. • basics a description rays According to necessity • ray films and -Reading different types of x region face And some diseases in diagnosing the jaws • dealing with education Students How to De patients And dealing with Some cases Private And prepare them To enter Clinics in stage Coming soon. 	Objectives
Strategy	.269
discussions Weekly <ul style="list-style-type: none"> • training practical on Devices • requirements practical per student Includes specific from Cases number spec • Exams Weekly) Oral And editorial(quarterly To evaluate addition to exam Level practical For students, And the exam Final practical 	

.10 Structure The decision					
road Evaluation	road learning theore tical Or practi cal	nit Name of u or topic	Required learning outcomes	watche s	week
evaluation discussions Students+ evaluation practical+ Exams Weekly	Discussio ns+ training practical	rays teeth	X- ray machine and production of X- ray	2	1
evaluation discussions Students+ aluation practical+ + Exams Weekly	Discussi ons+ training practical	rays teeth	X-ray film (types and indication)	2	2
evaluation discussions Students+ evaluation practical+ Exams Weekly	Discussi ons+ training practical	rays teeth	Intraoral techniques (periapical, bite-wing and occlusal films)	2	3
evaluation discussions Students+ evaluation practical+ Exams Weekly	Discussi ons+ training practical	rays teeth	Ideal radiographic projection	2	4
evaluation discussions Students+ evaluation practical+ Exams Weekly	Discussi ons+ training practical	rays teeth	Hazard and protection of radiation	2	5
evaluation discussions Students+ evaluation practical + Exams Weekly	Discussi ons+ training practical	rays teeth	Anatomical Land marks of maxilla	2	6
evaluation discussions Students+ evaluation practical+ Exams Weekly	Discussi ons+ training practical	rays teeth	Anatomical Land marks of mandible	2	7
evaluation discussions Students+ evaluation practical+ Exams Weekly	Discussi ons+ training alpractic	rays teeth	Dental anomalies	2	8

evaluation discussions Students+ evaluation practical+ Exams Weekly	Discussi ons+ training practical	rays teeth	Dental panoramic radiography	2	9
evaluation discussions Students+ evaluation practical+ yExams Weekl	Discussi ons+ training practical	rays teeth	Common disease (caries, PDL and inflammatory diseases)	2	10
evaluation discussions Students+ evaluation practical + Exams Weekly	Discussi ons+ training practical	rays teeth	Cysts (odontogenic and nonodontogenic)	2	11
evaluation discussions Students+ evaluation practical+ Exams Weekly	Discussi ons+ training practical	rays teeth	CBCT (indication and anatomy)	2	12
Evaluation practical in Clinic	practical	rays teeth	training practical	6	1+14+13 5
Evaluation practical in Clinic	practical	rays teeth	training practical	8	1718+16 19 +
Evaluation practical in Clinic	practical	rays teeth	training practical	8	21+20 23+22

Evaluation practical in Clinic	practical	rays teeth	icaltraining pract	8	25+24 27+26
exam practical Oral	practical	rays teeth	exam practical quarterly	4	29+28
exam practical Editorial	practical	rays teeth	exam practical ultimate	1	30

.11 rating The decision

distribution degree from 100 The person in on according to Tasks charge With it The student like Preparation Daily and exams Daily and oral And monthly and editorial Reports... etc.

15% half year

25% striving annual) Includes Exams Daily And monthly and discussions and requirements The process(20% am Ex practical Final

40% Exam theoretical Final

12 sources learning and teaching

1. Oral radiology -Principles and interpretation (White and Pharoah's 8th ed.) 2. An atlas of dental radiographic anatomy (Kasle 4 th ed.)	books The reporter Required Methodology that I found (
<ul style="list-style-type: none"> Fundamentals of oral radiology Essentials of Dental Radiography and Radiology 	the reviewer HomeSources
<ul style="list-style-type: none"> Journal: 3. Oral Surgery, Oral Medicine, Oral Pathology and Oral Radiology 4. Dentomaxillofacial Radiology 	books References chock that Recommended With it) Scientific journals , Reports(.....
<ul style="list-style-type: none"> https://radiopaedia.org/ 	the reviewer electronic, Sites Internet

.270 course name: general pathology

.271 course code : 321PA	
.272 year : 2024-2025	
.273 Date: 2025/5/	
272. Forms the audience Available : presence in The hall Academic For the material Theory	
.275 Academic Total / (Number) Units (total) : 60 Theoretical hour (4 credits)	
.276 adminstrator	
Dr. Ali Hussein Mohammed Ali	
.277 objectives	
<ul style="list-style-type: none"> •Qualifying dentists who are able to identify the important causes of various General diseases and diagnostic study of various diseases •How Use Dyes Different To know This is amazing Diseases and their causes •learning on Cutting tissue 	
.278 strategy	
Lectures Theory Discussions Scientific Seminars use screens (LCD) rification like films rays And the use means cla Exams weekly <u>Methods Evaluation</u> video exam half year And the end year Evaluation For seminars stomach from before Student Evaluation For the product practical Skills Public (Transferable) Other skills yability and development related to emplo Personal.(

He does Instructor By bringing some Clips Textile And dyes For diseases Rare items that are not available within the institution are explained and presented to the students for the purpose of keeping with the scientific process in area General pace diseases	
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.10 course structure					
road Evaluation	road theoretical learning or practical	Topic	Required learning outcomes	watches	week
Daily and monthly exams And a half Annual d final and An seminars	Theoreti cal lectures POWER POINT	General pathology	Introduction to pathology Clinical pathology molecular pathology	2	2-1
Daily and monthly exams And a half Annual And final and seminars	Theoreti cal lectures POWER POINT	General pathology	Cell damage reversible cell injury irreversible cell injury	4	4 + 3
Daily and monthly exams And a half Annual And final and seminars	Theoreti cal lectures POWER POINT	General pathology	Inflammation Acute Inflammation Chronic pathology Chemical mediators	4	6 + 5
Daily and monthly exams And a half Annual And final and seminars	Theoreti cal lecturesle POWER POINT	General pathology	Healing and repair Healing of skin wound Healing of bone	4	8 + 7
			Deposits and		

Daily and monthly exams And a half Annual And final and seminars	Theoretical lectures POWER POINT	General pathology	pigmentation External and internal pigmentation	2	9
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annual -semi exams Annual And final	Theoretical lectures POWER POINT	General pathology	bacterial infection and viral selective infectious diseases	4	+ 10 11
annual -semi exams Annual And final	Theoretical lectures POWER POINT	General pathology	Immunopathology Hypersensitivity Autoimmune diseases Transplantation	4	13- 12
annual -semi exams Annual And final	Theoretical lectures POWER POINT	General pathology	Disorders of cell growth and development	2	14
annual -semi exams Annual And final	Theoretical lectures POWER POINT	General pathology	Neoplasia benign and malignant tumors molecular basis of tumors	6	+ 15 17- 16
annual -semi exams Annual And final	Theoretical lectures POWER POINT	General pathology	Genetics	4	+ 18 19
annual -semi exams Annual And final	Theoretical lectures POWER POINT	General pathology	Disturbances in body fluids and blood flow	4	21-20
annual -semi exams Annual And final	Theoretical lectures POWER	General pathology	Diseases of the cardiovascular system	3	22

	POINT				
annual -semi exams Annual And final	Theoreti cal lectures POWER POINT	General pathology	Diseases of respiratory system	2	23
annual -semi exams Annual And final	Theoreti cal lectures POWER POINT	General pathology	Diseases of respiratory system	4	+ 24 25

annual -semi exams Annual And final	Theoreti cal lectures POWER POINT	General pathology	Hematological diseases	2	26
annual -semi exams Annual And final	Theoreti cal lectures POWER POINT	General pathology	Diseases of GIT	2	27
Daily and monthly exams And a half Annual And final and narrations	Theoreti cal lectures POWER POINT	General pathology	Diseases of liver, pancreas and gall bladder	2	28
Daily and monthly exams And a half Annual And final and seminars	Theoreti cal lectures POWER POINT	General pathology	Bone diseases	2	29
Daily and monthly exams a half Annual And And final and seminars	Theoreti cal lectures POWER POINT	General pathology	Joints , Muscle and CT diseases	2	30

.11 rating The decision

Grade distribution of 100 on according to Tasks The person in
Like preparation Daily and daily exams charge The student has it
and oral And monthly and editorial Reports... etc.

15% half year

25% striving annual) Includes Training Summer and exams Daily
And monthly and requirements The process (20% Exam practical
Final

40% al Final Exam theoretic

12 sources learning and teaching

<ul style="list-style-type: none"> Robbins basic pathology Kumar, Abbas and Aster. 10th edition. 2018, Elsevier. 	books The reporter Required Methodology If found (
	the reviewer Home Sources
<ul style="list-style-type: none"> 	books References chock that Recommended (It contains) scientific journals, Reports(.....

location The college electronic●	the reviewer electronic, Sites Internet
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.279 course name: general pathology	
.280 course code: 321PA	
.281 year : 2024-2025	
.282 Date: 2025/5/	
.283 Forms the audience Available :presence in laboratory diseases Public	
.284 number watches Academic Total / (Number) Units (total) : 60(units) (study ing hours (2My work	
.285 Adminstrator	
Dr. Ali Hussein Mohammed Ali M.M. Ali Makki Mohammedali.m.jaafar@uruk.edu.iq	
.286 objectives	
<ul style="list-style-type: none"> •Rehabilitation Doctors teeth Able on For knowledge Reasons Mission various general diseases and diagnostic studies for various diseases •How Use Dyes Different To know This is And its causes amazing diseases •learning on Cutting tissue 	Objectives
.287 strategy	

<ul style="list-style-type: none"> •Microscopic slide show Discussions of diseases Scientific And the seminars Use of screens(LCD) •use means clarification like films rays And the video •<u>Methods Evaluation</u> 	Strayegy
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<ul style="list-style-type: none"> •on exam quarterly and practical ultimate Slides microscopic 	
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.10 course structure					
road Evaluation	road Theoreti cal or practical learning	Name of unit or topic	Required learning outcomes	watches	week
exam My semest er work	practical	science diseases	Introduction to pathology Clinical pathology Molecular pathology	4	2-1
exam My semest er work	practical	science diseases	Cell damage reversible cell injury irreversible cell injury	4	4 + 3
exam My semest er work	practical	science diseases	Inflammation Acute inflammation Chronic pathology Chemical mediators	4	6 + 5
exam My semest er work	practical	science diseases	Healing and repair Healing of skin wound Healing of bone	4	8 + 7

exam My semest er work	practical	science diseases	Deposits and pigmentation external and internal pigmentation	2	9
exam My semest er work	practical	science diseases	Infection bacterial and vira selective infectious diseases	4	11 + 10

exam My semest er work	practical	science diseases	Immunopathology Hypersensitivity Autoimmune diseases Transplantation	4	13- 12
exam My semest er work	practical	science diseases	Disorders of cell growth and development	2	14
exam My semest er work	practical	science diseases	Neoplasia benign and malignant tumors molecular basis of tumors	6	-16 + 15 17
exam My semest er work	practical	science diseases	Genetics	4	19 + 18
exam My semest er work	practical	science diseases	Disturbances in body fluids and blood flow	4	21-20
exam My semest er work	practical	science diseases	Diseases of the cardiovascular system	2	22
exam My semest er work	practical	science diseases	Diseases of respiratory system	2	23
exam My semest er work	practical	science diseases	Diseases of respiratory system	4	25 + 24
exam My semest er work	practical	science diseases	Hematological diseases	2	26
exam My semest er work	practical	science diseases	Diseases of GIT	2	27
exam My semest er work	practical	science diseases	Diseases of liver, pancreas and gall bladder	2	28
exam My semest er work	practical	science diseases	Bone diseases	2	29

exam My semest er work		pr a c t i c a l	science diseases	Joints Muscle 2 and CT diseases		30
	2					
and exams Daily		<p>distribution degree from 100 on according to Tasks The person in charge With it The student like Preparation Daily and exams Daily and oral And monthly and editorial Reports... etc.</p> <p>15% half year 25% living Annualst : Includes Training Summer) two degrees Added(Bonus Monthly 15 points(and practical requirements 10 points) grades (</p> <p>25% Exam practical Final 35% Exam theoretical Final</p> <p>12 sources learning and teaching books The reporter Required Methodology that I found (</p> <p>the reviewer Home Sources</p> <p>books References chock that Recommended With it</p> <p>•) Scientific journals, Reports(.....</p> <p>the reviewer electronic, Sites Internet location College electronic•</p>				
		<ul style="list-style-type: none"> Robbins basic pathology. Kumar, Abbas and Aster. 10th edition, 2018, Elsevier 				

.279 course name: oral surgery	
.280 course code : 321PA	
.281 Year : 2024-2025	
.282 Date: 2025/5/	
.283 Forms the audience Available :the hall presence In Oral surgery the lab (theoretical) and in	
.284 academic number watches Academic Total / (Number) Units (total) : 31 and (credit hours 2) hour Theoretical 61(credit hours 2) hour Practical	
.285 Administrator	
Dr. Ali Glib Mutar ali.g.mutar@uruk.edu.iq	
.286 Objectives	
<p>student on high goals The decision is to be made The level from Scientific While Related With surgery mouth And recognition on Tools Surgical Private By his work in Surgery addition to acquisition knowledge Of all kinds Anesthesia topical and His methods and problems and ated With Complications Association</p>	Objectives
.287 strategy	
<p>•Microscopic slide show Discussions of diseases Scientific And the seminars Use of screens(LCD) •use means clarification like films rays And the video •: <u>Methods Evaluation</u> exam quarterly and practical ultimate on Slides microscopic</p>	Strategy

road Evaluation	road education	name Unity /Or the subject	Theoretical content	watches	The week
Short exams, And the quarterly ,and year -Mid and final	Theore tical lecture using the program PowerPoint power point	Oral surgery	Diagnosis in oral surgery (exodontia)	2	1
Short exams, And the quarterly ,and year -Mid and final	Theore tical lecture using the program PowerPoint power point	Oral surgery	Extraction of teeth (exodontia)	2	3
Short exams, And the quarterly ,and year -Mid nd finala	Theore tical lecture using the program PowerPoint power point	Oral surgery	Contra indications of extraction (exodontia)	2	5
Short exams, And the quarterly ,and year -Mid and final	Theore tical lecture using the program PowerPoint power point	Oral surgery	General arrangement for extraction (exodontia)	1	7
Short exams, And the quarterly ,and year -Mid and final	Theore tical lecture using the program PowerPoint power point	Oral surgery	Dental forceps (exodontia)	2	8
Short exams, And the yquarterl ,and year -Mid and final	Theore tical lecture using the program PowerPoint power point	Oral surgery	Elevators (exodontia)	2	11
Short exams, And the quarterly ,and	Theore tical lecture using the program PowerPoint	Oral surgery	Techniques of forceps extraction and	2	12

year and final-Mid	Power Point		post operating instructions (exodontia)		
Short exams,And the quarterly,and year and final-Mid	Theoretical lecture using the program PowerPoint power point	Oral surgery	Complications of teeth extractions (exodontia)	3	14
Short exams,And the quarterly,and year and final-Mid	Theoretical lecture using the program PowerPoint power point	Oral surgery	Basic surgical instruments (exodontia)	3	17
Short exams,And the quarterly,and year and final-Mid	Theoretical lecture using the program PowerPoint power point	Oral surgery	Introduction to local anesthesia (local anesthesia)	1	21
Short exams, and quarterlyand year and final-Mid	Theoretical lecture using the program PowerPoint power point	Oral surgery	Pharmacology of local anesthesia (local anesthesia)	2	21
Short exams,And the quarterly,and year and final-Mid	Theoretical lecture using the program PowerPoint power point	Oral surgery	Surgical anatomy in local anesthesia (local anesthesia)	1	23
Short exams,And the quarterly,and year and final-Mid	Theoretical lecture using the program PowerPoint power point	Oral surgery	Instruments of local anesthesia (local anesthesia)	1	24

.11 Structure Infrastructure

1. Contemporary oral and maxillofacial surgery 5th ^{edition} 2008. 2. Extraction of teeth 3. Handbook of Local anesthesia 6th edition 2011. 4. Hand book of local anesthesia 7th edition Stanely F. Malamed, Elsevier.2019.	- 1books The reporter Required
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No.	Laboratory sessions & <i>Clinical requirements</i>	Hours
1	Introduction	2

2	What is oral and maxillofacial surgery?	2
3	History and diagnosis (1).	2
4	History and diagnosis (2).	2
5	Case sheet and patient (1)	2
6	Case sheet and patient (2)	2
7	Examination.	2
8	Surgical instruments part (1).	2
9	Surgical instruments part (2).	2
10	Surgical instruments part (3).	2
11	Examination	2
12	General arrangement for extraction.	2
13	Position of patient, operator, the use of chair (in the clinic)	2
14	Examination.	2
15	Local anesthesia (introduction)	2
16	Dental forceps (part 1).	2
17	Dental forceps (part 2).	2
18	Dental forceps (part 3).	2
19	Dental elevator (part 1).	2
20	Dental elevator (part 2).	2

21	Dental elevator (part 3).	2
22	Examination	2
23	Local anesthesia (surgical), (anatomy)	2
24	Local anesthesia equipment.	2
25	Local anesthesia techniques (infiltration).	2
26	Local anesthesia techniques (block).	2
27	Local anesthesia techniques (discussion).	2
28	Complication of local anesthesia	2
29	Complication of extraction.	2
30	Examination	2
Total		60

.279 course name :Dental industry
.280 course code : PR310
.281 year : 2024-2025
.282d Date: 2025/5/
.283 Forms the audience Available :the hall presence In Industry the lab (theoretical) and in
.284 number watches Academic Total / (Number) Units (total) : study units 2/ hour theoretical 30
.285 Adminstrator

el Ismail M.M. Hussein AlaaM.M. Hade	
.286 Objectives	
Providing the student with the necessary information to 1-A enable him to master all the steps of manufacturing the special -chrome cobalt partial denture related to the laboratory aspect. B Description of the tools -bjectives of the course B1 The skill o Teaching the student how to use -used to prepare all materials B2 them and following up with him during work	
.287 Strategy	
LCD, lecture, show data, digital cameras, live explanation, and ct interaction by students with all types of materials mentioned dire within the curriculum set for the student after dividing them into groups according to the number of days of the week and explaining each step in detail, in addition to bringing models from sets or specially prepared sets as means of 'revious reviewersp .clarification	
.288 course name :laboratory industry teeth For the stage Third	
.289 course code :PR310	

.290 Year : 2024-2025	
.291 Date: 2025/5/	
.292 Forms the audience Available :presence in laboratory industry teeth For the stage Third	
.293 number watches Academic Total / (Number) Units (total) : 60 hour /lonliness Academic 4	
.294 Adminstrator	
M.M. Hadeel Ismail	
Alaa Hussein .M.M	
.295Goals The decision	
<ul style="list-style-type: none"> •education students stage Third How to Doing In steps Laboratory and Some clinical steps To make the set Mineral fraction. •education students stage Third and training students on How to fee and Designof metal partial denture. •education students stage Third and training students on How to fee and Designof a partial denture made of acrylic. •education students stage Third and training students on How to fee and Designof flexible partial denture. 	Goals The material Academic
.296Strategies education and learning	
<ul style="list-style-type: none"> •Perception Foundations Home For your information Compensation Artificial •Consolidation Concepts compensation teeth Animated •e the best Preparing a class of capable dentists To provid health services and Educational For the community. 	Strategy

.10 Structure The decision					
road Evaluation	road theoretical learning or practical	name Unity or the topic		watche s	week
annual -semi exams Annual And final	practical	Introduction to Removable Partial Dentures		2	1
annual -semi exams Annual And final	practical	Kennedy Classification		2	2
annual -semi exams Annual And final	practical	Cast Trimming		2	3
annual -semi exams Annual And final	practical	Surveying		2	4
annual -semi exams Annual And final	practical	Surveying		2	5
annual -semi exams Annual And final	practical	Wire Bending		2	6
annual -semi exams Annual And final	practical	Wire Bending		2	7
annual -semi exams Annual And final	practical	Acrylic Removable Partial Denture Design		2	8
annual -semi exams Annual And final	practical	Acrylic Removable Partial Denture Laboratory Procedures		2	9
annual -semi exams Annual And final	practical	Acrylic Removable Partial Denture Laboratory Procedures		2	10
annual -semi exams Annual And final	practical	Flexible Partial Denture Design		2	11
annual -semi exams Annual And final	practical	Flexible Partial Denture Laboratory Procedures		2	12

annual -semi exams Annual And final	practical	Flexible Partial Denture Laboratory Procedures		2	13
annual -semi exams Annual And final	practical	Flexible Partial Denture Laboratory Procedures		2	14

annual -semi exams Annual And final	practical	Principles of 2D Design for the Removable Partial Denture s		2	15
annual -semi exams Annual And final	practical	Principles of 2D Design for the Removable Partial Denture s		2	16
annual -semi exams Annual And final	practical	Principles of Drawing 2D Design for the Removable Partial Dentures		2	17
annual -semi Annual exams And final	practical	2D Design for Mandibular & Maxillary Arches		2	18
annual -semi exams Annual And final	practical	2D Design for Mandibular & Maxillary Arches		2	19
annual -semi exams Annual And final	practical	2D Design for Mandibular & Maxillary Arches		2	20
annual -semi exams Annual And final	practical	Drawing Removable Partial Denture 3D Design & CAD/CAM		2	21
annual -semi exams Annual And final	practical	Drawing Removable Partial Denture 3D Design & CAD/CAM		2	22
annual -semi ms Annual exa And final	practical	Types of Rests		2	23
annual -semi exams Annual And final	practical	Rest Seat Preparation		2	24
annual -semi exams Annual	practical	Block Out and Relief		2	25

And final					
annual -semi exams Annual And final	practical	Block Out and Relief		2	26
annual -semi exams Annual And final	practical	Duplication Of the Master Cast		2	27
annual -semi exams Annual And final	practical	Wax Pattern for the Removable Partial Denture Framework		2	28

annual -semi exams Annual And final	practical	Wax Pattern for the Removable Partial Denture Framework		2	29
annual -semi exams Annual And final	practical	Framework Fabrication		2	30
.11 rating The decision					
<p>Grade distribution of 100 on according to Tasks The person in ge The student has it like Preparation Daily and daily exams char and oral And monthly and editorial Reports... etc.</p> <p>15% half year 25% striving annual) Includes Training Summer and exams Daily And monthly and requirements The process(25% Exam practical nalFi 35% Exam theoretical Final</p>					
12 sources learning and teaching					
<ul style="list-style-type: none"> McCracken's Removable Partial Prosthodontics 13th Edition - November 3, 2015. Robert, W. L. (2018) Removable Partial Denture Manual. Dalhousie University. 			books The reporter Required(ology if method any)		
REMOVABLE Partial Denture <i>Laboratory Handbook for Third Year Students</i>			the reviewer Home) Resources(
<ul style="list-style-type: none"> THE Journal OF PROSTHETIC DENTISTRY 			books References chock that Recommended With it) Scientific journals , Reports (.....		
<ul style="list-style-type: none"> 			wer the revie electronic, websites		

2024-2024 Phase Four

.297 name Course :General medicine	
.298code The decision GM423:	

.299 the chapter / Year :2024 -2024

.300 date numbers this Description 2024/5/2	
.301 Forms the audience Available :presence in The hall Academic For the material Theory	
.302 number watches Academic Total / (Number) Units (total) : study hours of theoretical 2 31	
.30 name responsible The decision Academic) if more From a male name(
Dr. Thaer Salim tsss1958@uruk.edu.iq	
.304Goals The decision	
.8Goals The decision numbers The student on level High from Scientific While Related In medicine The year and Get to know Diseases nd Her and Ways Diagnose it and Treat it a relationship In his specialty Flour As a doctor teeth.	Goals The material Academic
Methods: • Lectures Interactive Using program .PowerPoint •interaction students in discussions Scientific And seminars. • Use of screens LCD and digital and ources such as microscopesres videos educational To enhance learning	Strategy

road Evaluation	road education	name Unity/ Or the subject	Theoretical contents	watches	The week
Short exams, and Quarterly, and Half of the year and Final	Theoreti cal lecture using the program PowerPoint power point	General Medicine	Diabetes Mellitus 1	1	1
Short exams, and Quarterly, and Half of the year and Final	Theoreti cal lecture using the program PowerPoint power point	General Medicine	Diabetes Mellitus 2	1	2
Short exams, and Quarterly, and Half of the year and Final	Theoreti cal lecture using the program PowerPoint power point	General Medicine	White Blood Cells Disorders 1	1	3
Short exams, and Quarterly, and Half of and the year Final	Theoreti cal lecture using the program PowerPoint power point	General Medicine	White Blood Cells Disorders 2	1	4
Short exams, and Quarterly, and Half of the year and Final	Theoreti cal lecture using the program PowerPoint power point	General Medicine	Hemostasis and Bleeding Disorders 1	1	5
Short exams, and Quarterl y, and Half of the year and Final	Theoret ical lecture using the program PowerPoint power point	General Medicine	Hemostasis and Bleeding Disorders 2	1	6

Short exams, and	a lecture theory t Using the program	General Medicine	Adrenal Gland Disorders 1	1	7
Quarterly, and Half of the year and Final	Power Point				
Short exams, and Quarterly, and Half of the year and Final	Theoretical lecture using the program PowerPoint power point	General Medicine	Adrenal Gland Disorders 2	1	8
Short exams, and Quarterly, and Half of the year and Final	Theoretical lecture using the program PowerPoint power point	General Medicine	Gastrointestinal Diseases	1	9
Short exams, and Quarterly, and Half of the year and Final	Theoretical lecture using the program PowerPoint power point	General Medicine	Peptic Ulcer Disease 1	1	10
Short exams, and Quarterly, and Half of the year and Final	Theoretical lecture using the program PowerPoint power point	General Medicine	Peptic Ulcer Disease 2	1	11

Short exams, and Quarterl y,and Half of the year and Final	Theor etical lecture using the program PowerPoint power point	General Medicine	Intestine	1	12
Short exams, and Quarterl y,and Half of the year and nalFi	Theor etical lecture using the program PowerPoint power point	General Medicine	Inflammatory Bowel Disease 1	1	13
Short exams, and Quarterl y,and Half of the year and Final	Theor etical lecture using the program PowerPoint power point	General Medicine	Inflammatory Bowel Disease 2	1	14

General Medicine	Pseudomembranous Colitis	1	15
General Medicine	Hypertension	1	16
General Medicine	Infective Endocarditis	1	17
General Medicine	Ischemic Heart Disease	1	18
General Medicine	Heart Failure	1	19
General Medicine	Cardiac Arrhythmias	1	20
General Medicine	Thyroid Diseases	1	21
General Medicine	Kidney Diseases	1	22

General Medicine	Immunologic Diseases	၁	၃၃
General Medicine	Liver Diseases	၁	၃၄
General Medicine	Pulmonary Diseases	၁	၃၀
General Medicine	Red Blood Cells Disorders	၁	၃၆
General Medicine	Drug and Alcohol Abuse	၁	၃၇
General Medicine	Psychiatric Disorders	၁	၃၈
General Medicine	Anxiety and Eating Disorders	၁	၃၉

.297	course name : general surgery
.298	course code : 424GS
.299	Year : 2024-2024

.300	Date :2024/5/2
.301	Available attendance forms: Attendance in the classroom for the theoretical subject
302	Total study hours (total)/(total units):(31 theoretical hours, 2 study units)
303	Name of the course coordinator (if more than one name is mentioned) Prof. M. Dr. Khaleel Awad Hassoun Khaleelawad@uruk.edu.iraq
304	Course Objectives
Preparing the student to a high level of proficiency in the fundamentals of general surgery, recognizing general surgical cases, diagnosing and treating them, and their relation to his specific specialization as a dentist. Dentistry	Objectives
Methods: • Interactive lectures using the PowerPoint program. PowerPoint • Student interaction in scientific discussions and seminars. • The use of LCD screens and digital resources such as microscopes and educational videos to enhance learning.	Strategy

.115Course structure					
Evaluation	Learning method	Topics	Theoretical contents	Hours	Week
Short exams, semester exams, and Midterm The final	Theoretical lecture using the program PowerPoint point power	General Surgery	<p>Metabolic response to injury</p> <p>BASIC CONCEPTS IN</p> <p>HOMEOSTASIS</p> <p>MEDIATORS OF THE METABOLIC RESPONSE TO INJURY</p> <p>Physiological response to injury ((THE ‘EBB AND FLOW’ MODEL))</p> <p>Insulin resistance</p> <p>AVOIDABLE FACTORS THAT COMPOUND THE RESPONSE TO INJURY</p> <p>Systemic inflammation and tissue response</p>	2	1&2

Short exams, semester exams, and Midterm The final	Theoretical lecture using the program PowerPoint point power	General Surgery	Wound healing Introduction Classification of wound Healing Normal sequence of wound Healing Factors affecting healing (local & systemic) Complications of wound healing	2	3&4
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.297	course name :oral surgery
.298	course code : 322OS
.299	Year: 2024-2024
.300	Date 2024/5/2

.301 Available attendance forms: Attendance in the classroom for the theoretical course	
.302 Total study hours (total) / Total units (total): 31 theoretical hours (2 units) 151 practical hours (6 units)	
303. Name of the course coordinator (if more than one name is mentioned) lec. Sundus Abbas assist. Lec.. Dr. Mohamed Said assist. lec.. M. Hind Sabah asisit. lec. Rasha Adel	
.304 Course Objectives Preparing the student to a high level of proficiency in the fundamentals of oral surgery, understanding the dental management of patients with chronic and infectious diseases, in addition to minor surgical interventions for the mouth and infections and lesions of the mouth, face, and jaws. Objectives of the course	
.305 Teaching and Learning Strategies Preparing the student to a high level of proficiency in the fundamentals of oral surgery, understanding the dental management of patients with chronic and infectious diseases, in addition to minor surgical interventions for the mouth and infections and lesions of the mouth, face, and jaws. Objectives of the course .	
Methods: • Interactive lectures using PowerPoint. PowerPoint • Student interaction in scientific discussions and seminars. • Using LCD screens and digital resources such as microscopes and educational videos to enhance learning.	Strategy

1. Contemporary oral and maxillofacial surgery 7th edition 2019 (Elsevier) 2. An outline of oral surgery 2000. 3. Dental management of medically compromised patients 7 th edition 2007.	١. الكتب المقررة المطلوبة
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Evaluation method	Learning method	Topics	Theoretical content	Hours	Week
The short exams, the midterms, and Midterm and final	Lecture Theory Using the program PowerPoint	Oral surgery	Dental pain	1	1
The short exams, the midterms, and Midterm and final	Lecture Theory Using the program PowerPoint	Oral surgery	Cardiovascular diseases	3	2
The short exams, the midterms, and Midterm and final	Lecture Theory Using the program PowerPoint	Oral surgery	Bleeding disorders	2	5
The short exams, the midterms, and Midterm and final	Lecture Theory Using the program PowerPoint	Oral surgery	Blood dyscrasias	1	7
The short exams, the midterms, and Midterm and final	Lecture Theory Using the program PowerPoint	Oral surgery	Thyroid disease	1	8
The short exams, the midterms, and Midterm and final	Lecture Theory Using the program PowerPoint	Oral surgery	Adrenal insufficiency	1	9

Clinical requirement

Clinical requirement	
<ul style="list-style-type: none"> - Extraction of simple cases - Seminars of oral surgery 	5 Hours/ week 150 Hours/ Year

Conservative dentistry 419CV	course name and code .3
Weekly	attendance form .4
Two semester	year .5
31 theoretical hours (2 units) and 151 practical hours (6 units)	total studying hours .6
2024-2024	Date .7
<p>.8 objectives: Training the student on how to examine patients and diagnose conditions using the approved modern diagnostic methods, then preparing a treatment plan, and finally starting to treat the medical condition scientifically and correctly, using modern materials and methods in root canal treatments through theoretical lectures along with clinical practice in the clinics. Students are also trained on root fillings on extracted teeth to prepare them for clinical work on patients.</p>	

11. course structure					
Evaluation method	Learning method	Topics	Theoretical content	Hours	week
The short exams, the midterms, and Midterm and final	Theoretical lecture using the program PowerPoint power point	Conservative dentistry	Biologic Considerations of Enamel structure and its Clinical Significance in Practice of Operative Dentistry.(part 1)	1	1
The short exams, the midterms, and Midterm and final	Theoretical lecture using the program PowerPoint power point	Conservative dentistry	Objectives of endodontic treatment -Basic phases of treatment -Pulp pathologies	1	2
The short exams, the midterms, and	Theoretical lecture using	Conservative dentistry	Biologic Considerations of Enamel structure and its	1	3

Midterm and final	the program PowerPoint power point	Conservative dentistry	Clinical Significance in Practice of Operative Dentistry.(part2)		
The short exams, the midterms, and Midterm and final	Theoretical lecture using the program PowerPoint power point	Conservative dentistry	-Classification of periapical diseases - Access opening preparation	1	4
The short exams, the midterms, and Midterm and final	Theoretical lecture using the program PowerPoint power point	Conservative dentistry	Biologic Considerations of Dentin structure& its	1	5
The short exams, the midterms, and Midterm and final	Theoretical lecture using the program PowerPoint power point	Conservative dentistry	Clinical Significance in Operative Dentistry(part 1)		
The short exams, the midterms, and Midterm and final	Theoretical lecture using the program PowerPoint power point	Conservative dentistry	- Access opening preparation (part 2) - Endodontic instruments	1	6
The short exams, the midterms, and Midterm and final	Theoretical lecture using the program PowerPoint power point	Conservative dentistry	Biologic Considerations of Dentin structure & its Clinical Significance in	1	7

Clinical Requirements

Operative Dentistry	Hours
<p>The students are required to complete the following restorations:-</p> <p>a. Amalgam Restorations Class I 6 cases, Class II 4 cases.</p> <p>b. Composite (tooth colored) Restorations Class III 2, Class IV 2 ,and Class V 2 cases</p> <p>These requirements are the absolute minimum needed in order to take the final examination.</p>	2.5h/wk
	75h/year

Clinical requirements (Preclinical Endodontic)

Lab number	Study unit title	Hours
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7 8 9

1	Introduction	2.5
2	Block construction	2.5
3	Diagnosis	2.5
4	Quiz 1 in lab 1,2&3 +Access opening	2.5
5	Quiz 2 in lab 4 +Clinical access opening to one anterior tooth and two premolar teeth	2.5
6		2.5
7		2.5
8	Instrument	2.5
9	Equipment and materials	2.5
10	Quiz 3 clinical quiz in lab 8&9, Working length estimation demonstration .	2.5
11	Quiz 4 in lab 11 + clinical working length estimation on the same three teeth .	2.5
12		2.5
13		2.5
14		2.5
15	Rubber dam application	2.5
16	Quiz 5 clinical quiz in lab 15	2.5
17	Review	2.5
18	Root canal instrumentation .	2.5
19	Quiz 6 in lab 18 + clinical instrumentation to the same teeth	2.5
20		2.5
21		2.5
22		2.5
23		2.5
24	Root canal obturation.	2.5
25	Quiz 7 in lab 24 +clinical obturation to three teeth.	2.5
26		2.5

27		2.5
28	Review	2.5
29		2.5
30		2.5
Total		75

.297	course name : oral pathology
.298	course code : 4250P
.299	Year : 2024-2024

.300	Date: 2024/5/2
.301	Available attendance forms: Attendance in the classroom for the theoretical course
.302	Total study hours (total)/(total units): (30 hours/ 60 study units) 90 hours of practical work (3 credit hours)
.303	Name of the course coordinator (if more than one name is mentioned)
Prof. Ahlam Hamid Majid Ahlamhameed@uruk.edu.iraq Prof. Dr. Sita Arshak Sarkis	
.304	course objectives

<p>goal The year: Rehabilitation Students medicine teeth With knowledge and skills strong For diagnosis various illnesses mouth, Using Techniques tincture Advanced And understand Histological examination pathology</p> <p>Objectives:</p> <ul style="list-style-type: none"> • to understand anddiscrimination various illnesses mouth •Mastery Use Techniques Dye For purposes Diagnosis •acquisition skills in Techniques cutting tissues 	Objectives
.305Strategies education and learning	

Methods: <ul style="list-style-type: none"> • Using program Lectures Interactive .PowerPoint •interaction students in discussions Scientific And seminars. • Use of screens LCD and digital and resources such as microscopes videos educational To enhance learning structure Course: Topics like table Detailed for each Week includes Biopsy techniques, caries teeth, Pathology The core Sunni, illnesses around The summit, And others.It will be Presenting each topic through lecturesPowerPoint plus sessions practical and ratings from during Tests short, Exams Mid d final exams ComprehensiveSemester an.	Strategy
--	-----------------

.10 Structure The decision

road Evaluation	road theoretical learning or practical	name Unity or the topic	Learni ng outco mes Require d	watche s	week
annual -semi exams Annual And final		Introduction and Principles of biopsy techniques		2	2 + 1
annual -semi exams Annual And final		Dental caries		2	4 + 3
annual -semi exams Annual And final		Pulp pathology		2	6 + 5
annual -semi exams Annual And final		Periapical pathology		2	8 + 7
annual -semi exams Annual inalAnd f		Bone infection		2	+ 9 10

annual -semi exams Annual And final		Bone diseases (Genetic diseases, metabolic diseases; fibro-osseous lesions)		2	+ 11 12
annual -semi exams Annual And final		Developmental disturbances of teeth		1	13
annual -semi s Annual exam And final		Developmental disturbances of bone and soft tissue		1	14
annual -semi exams Annual And final		Benign tumor of bone		2	+ 15 16
annual -semi exams Annual And final		Malignant tumor of bone		2	+ 17 18
annual -semi exams Annual And final		Odontogenic cysts		1	19
annual -semi exams Annual And final		Odontogenetic tumors		2	+ 20 + 21
annual -semi exams Annual And final		Oral mucosal lesions		2	22 + 23
annual -semi exams Annual And final		Benign epithelial, pre- cancerous lesions and Squamous cell carcinoma		2	+ 24 25
annual -semi exams Annual And final		Immune-mediated disease		1	26
annual -semi exams Annual And final		Soft tissue tumor		2	+ 27 28
annual -semi exams Annual And final		Diseases of salvary glands		1	29
al annu-semi exams Annual And final		Tumors of salvary glands		1	30
.11 rating The decision					

<p>Grade distribution of 100 on according to Tasks The person in charge The student has it Like preparation Daily and daily exams and oral And monthly and editorial Reports... etc.</p> <p>15% half year 25% striving annual) Includes Training Summer and exams Daily And monthly and requirements The process(25% Exam practical Final 35% Exam theoretical Final</p>	
12 sources learning and teaching	
<ul style="list-style-type: none"> Oral and Maxillofacial Pathology by Brad Neville et al., 4th Edition. 	books The reporter Required(methodology if any)
	the reviewer Home) Resources(
<ul style="list-style-type: none"> A selection of contemporary scientific journals and reports 	books References chock that Recommended With it) Scientific journals , Reports (.....
College's electronic resources including academic databases websites.	the reviewer electronic, websites

Laboratory sessions

Lab number	Study unit title	Hours
1	show and demonstration of biopsy processing Data	3
2	Acute and chronic dental caries	3
3	Acute pulpitis, chronic pulpitis and pulp polyp	3
4	Periapical granuloma, cyst and abscess	3
5	Acute and chronic osteomyelitis and sequestrum	3
6	fibroma Pagets disease, GCG, Fibrous dysplasia and ossifying	3
7	fibroma Pagets disease, GCG, Fibrous dysplasia and ossifying	3
8	Osteoma, osteosarcoma, chondrosarcoma, Burkitts lymphoma,eosinophilia granuloma	3
9	Osteoma, osteosarcoma, chondrosarcoma, Burkitts lymphoma,eosinophilia granuloma	3
10	Data show	3
11	Data show	3
12	calcifying odontogenic cyst and ,Dentigerous cyst, kertatocyst cyst eruption	3
13	Ameloblastoma,adenomatoid odontogenic tumor and odontoma	3

14	,leukoplakia ,Lichen planus	3
15	data show	3
16	data show	3
17	data show	3
18	data show	3
19	Pemphigus vulgaris and data show	3
20	Pemphigus vulgaris and data show	3
21	cell Epithelial dysplasia, squamous cell papilloma, squamous carcinoma	3
22	cell Epithelial dysplasia, squamous cell papilloma, squamous carcinoma	3
23	Fibroma, hemangioma and lymphangioma	3
24	Fibroma, hemangioma, pyogenic granuloma and lymphangioma	3
25	Mucocele and data show	3
26	data show	3
27	pleomorphic adenoma and mucoepidermoid carcinoma	3
28	pleomorphic adenoma and mucoepidermoid carcinoma	3
29	Data show	3
30	Data show	3
Total		90

.306 name Course :calendar Teeth phase Rabaa

.307 code Course : For OD / 426

.308 the chapter / Year :2024 -2024

.309 date numbers this Description 2024/5/2	
.310 Forms the audience Available :presence in The hall Academic For the material Theory	
.311 number watches Academic Total / (Number) Units (total) : 30 hour / 60lonliness Academic ours / 6 study unitspractical h 150	
.312 name responsible The decision Academic) if more From a male name(
M.M. Hanadi Majeed Hamid Dr.hanadi.majeed@uruk.edu.iq M. M. Anoush Aram Hayek	
.313decision Goals The	
<ul style="list-style-type: none"> •numbers The student on level High from Scientific While Related Orthodontics and identifying the types of medical conditions, malocclusion and the causes leading to them Types of orthodontic devices • Course skill objectives : 1. Diagnosis of malocclusion cases .2knowledge Types Devices Calendar Related With all condition. •Goals emotional and the value •solution problems Related Badly dishes Using Devices animated calendar 	Goals The material Academic
.314ningStrategies education and lear	
<ul style="list-style-type: none"> •Laboratories Training To make device Calendar The moving • Lectures Using show program) (data point Power 	Strategy

.10 Structure The decision					
road Evaluation	road theoretical learning or practical	name Unity or the topic	Learni ng outco mes Required	watch es	week

annual -semi exams Annual And final		<u>Introduction</u> Definition of orthodontics		1	1
		Definition of occlusion, normal occlusion, ideal occlusionand malocclusion Six keys of normal occlusion			
annual -semi exams Annual final And		Aims of orthodontic treatment Orthodontic definitions (overjet, overbite, crossbite, spacing, crowding, midline deviation, rotation, displacement, proclination, retroclination, protrusion, retrusion, imbrication, overlap, impaction) – including types		1	2
annual -semi exams Annual And final		Classification of malocclusion a. Angle's classification including division and subdivisions		1	3
annual -semi exams Annual And final		b.molar, canine, incisor classifications c. classification of deciduous and mixed dentitions		1	4
annual -semi exams Annual And final		Definitions of growth, development and maturity Stages of development (ovum till birth) Theories of bone growth (cartiligneous, sutural, endosteal-periosteal, matrix theories		1	5
annual -semi exams Annual And final		Definitions of growth site, growth center, displacement, and drift Growth curve and maximum growth spurt		1	6

annual -semi exams Annual And final		- Growth and Development of hard tissues (cranial base, cranial vault,		1	7
		nasomaxillary complex, mandible) including prenatal and postnatal - Growth and development of soft tissues (lip, nose, cheek and tongue) Including prenatal and postnatal			
annual -semi exams Annual And final		Developmental anomalies Jaw rotation and adaptation		1	8
annual -semi exams Annual And final		<u>Deciduous and permanent dentition</u> Stages of tooth development: Formation, calcification and root completion		1	9
annual -semi exams Annual And final		Tooth eruption (stages and theories) Sequences and timing of eruption		1	10
annual -semi exams Annual And final		<u>Development of occlusion</u> a. new born oral cavity (relationship of gum pads, neonatal jaw relationships, natal and neonatal teeth) b. Deciduous dentition stage - Dental changes till 6 years of age (jaw relationship, attraction, primary spaces		1	11

annual -semi exams Annual And final		<p>c-Early mixed dentition stage - eruption of first molars and incisors (occlusal relationships of primary and permanent molars, early mesial shift, ugly duckling stage, secondary spaces)</p> <p>d. Late mixed dentition stage - eruption of canines and premolars (Leeway space and late mesial shift)</p>		1	12
		e. Permanent dentition - eruption second and third molars (mesial migration)			
annual -semi exams Annual And final		<p><u>Etiology of malocclusion:</u></p> <p>Genetic factors and inherited factors</p> <p>Classification of etiological factors</p> <p>a. General factors</p> <p>i. Skeletal (dental base and cranial base, variation of position and size of the jaws)</p>		1	13
annual -semi exams Annual And final		<p>ii- Soft tissue (muscles of face and mastication, muscles of lip and tongue, relationship to skeletal factors, abnormalities of oro-facial musculature, interference with soft tissue function)</p> <p>iii. Tooth size and arch length relationship (Crowding and spacing) including types</p>		1	14

annual -semi exams Annual And final		b. Local factor i-Extra-teeth (supernumerary) and missing teeth (hypodontia) ii. Anomalies of tooth size and shape		1	15
annual-semi exams Annual And final		iii- Early loss of deciduous teeth iv. Retained deciduous teeth, delayed eruption of		1	16
		permanent teeth, impacted teeth, ankylosis			
annual -semi exams Annual And final		Abnormal eruptive behavior (displacement, transposition) vi. Large frenum (labial and lingual), periodontal diseases		1	17
annual -semi exams Annual And final		vii. Oral habit viii. Dental caries, improper dental restoration		1	18
		<u>Tooth movement</u> a. Tissue changes associated with tooth movement: i. Histology of periodontium ii. Theories of tooth movement (pressure tension theory, blood flow theory, and piezoelectric theory)		1	19

		b. Biomechanics i. Force (application, type, magnitude, duration and direction) ii. Center of resistance and rotation, moment of force and moment of couple		1	20
		iii. Types of tooth movement iv. Rate of tooth movement and factors affecting it		1	21
		<u>Orthodontic appliances</u> a. Overview: i. passive orthodontic appliances (habit breaker,		1	22
		retainer and space maintainer) ii. active orthodontic appliances (removable, fixed, orthopedic and myofunctional, and combination)			
		<u>b. Removable Orthodontic Appliance:</u> i. Properties of various components (SS wire, acrylic) ii. Components: 1) active components (springs, screws and elastics)		1	23
		2) retentive components (clasps) 3) acrylic base plate and bite planes 4) anchorage		1	24
		iii. Design of a removable orthodontic appliance iv. Construction of a removable orthodontic appliance		2	25

		V.Soldering and welding		1	26
		vi. Post-insertion instructions and guidelines			
		<u>c. Fixed orthodontic appliance:</u> Types, components, advantages, limitation, biomechanics, banding vs. bonding		1	27
		Use of extra-oral anchorage, temporary anchorage devices (TADs), and lingual fixed appliance		1	28
		<u>d. Orthopedic and Myofunctional appliance:</u>		1	29
		- Types, components, advantages, limitation, mode of action <u>e. Other active Appliances:</u> combination appliances, Invisalign			
		<u>f. Retention and retainers</u> - Retention (definition, reason, time) Retainers (Hawley, clear overlay, positioners, permanent fixation, precision)		1	30

Grade distribution of 100 on according to Tasks The person in charge The student has it Like preparation Daily and daily exams and oral And monthly and editorial Reports... etc.

15% half year

25% striving annual) Includes Training Summer and exams Daily And monthly and requirements The process(25% Exam practical Final

35% Exam theoretical Final

12 sources learning and teaching

<ul style="list-style-type: none"> • -Orthodontics; current principles and technique - Introduction to orthodontics • Contemporary Orthodontics, William R. Proffit Sixth edition • -Textbook of Orthodontics Singh 2007 	books The reporter Required(methodology if any)
	the reviewer Home) Resources(
Reports Published in location College	eferences books R chock that Recommended With it) Scientific journals , Reports (.....
location College electronic	the reviewer electronic, websites

Clinical requirements

Lab number	Study unit title	Hours
1	Seminar 1 (Introduction to orthodontics)	5
2	Seminar 2 (Types of orthodontic appliances)	5
3	Seminar 3 (Orthodontic pliers)	5
4	Seminar 4 (Stainless steel alloy properties)	5
5	Seminar 5 (Acrylic baseplate)	5
6	Seminar 6 (Principles of wire bending)	5
7	Wire bending training	5
8	Z-Spring	5
9	Recurved Z-Spring	5
10	Review	5
11	Simple Finger Spring	5
12	Modified Finger Spring	5
13	Review	5
14	Buccal Canine Retractor	5
15	Modified Buccal Canine Retractor	5
16	Review	5
17	Quarterly Exam	5
18	Adams' Clasps on Upper Right 1 st Molar	5
19	Adams' Clasps on Upper Left 1 st Molar	5
20	Adams' Clasps on Upper Right 1 st Premolar	5
21	Double Adams' Clasps on Upper Right 2 nd premolar & 1 st molar	5
22	Review	5

23	Fitted Labial Arch	5
24	Hawley Arch	5
25	Review	5
26	Robert's Retractor	5
27	Soldering and Welding	5
28	Review	5
29	Quarterly Exam	5
30	Final Exam	5
Total		150

.306 name Course :phase Rabaa Pediatric Dentistry	
.307 code Course : PE427	
.308 pterthe cha / Year :2024 -2024	
.311 number watches Academic Total / (Number) Units (total) : 30hour theoretical	
.312 name responsible The decision Academic) if more From a male name(
I. Dahan-Ridha Al-Zainab Abdul M.M. Mona Hashem Muhaibis	
.313Goals The decision	
Understand and comprehend the theoretical and practical methods for treating all cases of dental injury in children and learn about scientific methods and techniques supported by illustrative means to know how to identify and permanent teeth and the problems related to primary .them	Goals The material Academic

Pediatric Dentistry Damle 3rd ed. 2009	books The reporter Required(methodology if any)
<p>Text book of pediatric dentistry Nikhil Marwa 2nd ed. 2009 New Delhi</p> <p>Hand book of pediatric dentistry (Cameron) mosby Elsevier/4th edition/2013</p> <p>Pediatric Dentistry A clinical approach/ View Koch, Sven Poulsen/ Wiley Blackwell Publishing Ltd/ 2nd ed./ 2009</p> <p>Principles and practice of pedodontists /Arathi Rao Jaypee/second edition 2008</p> <p>Paediatric Dentistry/ Richard Welbury/ Fourth edition Oxford University Press, 2012</p> <p>Essentials of pediatric dentistry/ Kanchan Harikishan Asnani/ JAYPEE BROTHERS Medical PUBLISHERS/1st ed. 2010</p> <p>Pediatric Dentistry Infancy through Adolescence/ 5th ed. / Paul S. Casamassimo et al./ Elsevier/ 2013</p> <p>Pediatric Restorative Dentistry/ Soraya Coelho Leal, Eliana Mitsue Takeshita/Springer/Springer International Publishing AG, part of Springer Nature 2019</p> <p>Pedodontics Practice and Management/ Badrinatheswar GV/ Jaypee Brothers Medical Publishers/ 1st ed./ 2010</p> <ul style="list-style-type: none"> • Restorative Techniques in Paediatric Dentistry/ Duggal et al./ 2nd ed./ Martin Dunitz/2002 	

McDonald's AND AVERY'S DENTISTRY for CHILD and ADOLESCENT 2016 by Elsevier	the reviewer Home) Resources(
Additional requirements such as Community-based facilities (include for example, guest	books References chock that Recommended With it) Scientific journals , Reports (.....

name The decision illnesses gums theoretical	.١
code The decisionPER06401	.٢
the chapter/2024 year -2024	.٣
date numbers this Description2024/5/2	.٤
.5Forms the audience Available weekly from during Lectures and the job Clinical	
.6 number watches Academic (kidney30 retical andhour theo 90hour practical	
.7 name responsible The decision Academic (if more from name mentioned))	
١. Moalla-Kazem Jawad Al kadhumjawad@uruk.edu.iq	

Lectures , internship , field studies)	
Trying to spread awareness among school students through field visits and educational lecturing -summer training	
<ul style="list-style-type: none"> www.ajodo.org , PubMed 	the reviewer electronic, websites

٨. اهداف المقرر

ain For the branch he more knowledge In the goal M Goals The material Academic
 patients who good health mouth and teeth I have citizens And treatment
 They suffer from illnesses gums from during numbers elite from Students
 And And those who They will do it With this The role After their graduation
 serve them in Centers Health widespread in General Iraq.

•Lectures Comprehensive progress on road Use Programs and data show the Devices With the help of PowerPoint the blackboards smart educational movies- LCD •Screens Electronic	Strategy
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theoretical

road Evaluation	road learning	e name Unity or th topic	Outputs learning Required	watches	week
Exams short, and Quarterly ,and half year and Final	Theoretical lecture using the program PowerPoint PowerPoint	Terms & Definitions frequently used in periodontology	Learn scientific terms Related With asesdise gums	1	1
Exams short, and Quarterly ,and half year and Final	Theoretical lecture using the program PowerPoint PowerPoint	Anatomy of the periodontium Oral mucosa - Gingiva	identification Students In the anatomical part For the gums And give on about Informat the first part of the tissue gingival	1	2

Exams short, and Quarterly, and half year and Final	Theoretical lecture using the program PowerPoint PowerPoint	Anatomy of the periodontium - Periodontal ligaments (PDL) ○	Complete anatomical information that info Specializes in fabric Linking	1	3
Exams short, and Quarterly, and half year and Final	Theoretical lecture using the program PowerPoint PowerPoint	Anatomy of the periodontium - Alveolar cement Bone	identification Students For the part steel from fabric Link	2	4 5
Exams short, and Quarterly, and half year and Final	Theoretical lecture using the program PowerPoint PowerPoint	Classification of periodontal diseases and conditions (2017) Gingival disease	Give a first lecture on classification on Hadith For diseases gums And around teeth	1	6
Exams short, and Quarterly, and half year and Final	Theoretical lecture using the program PowerPoint PowerPoint	Classification of periodontal diseases and conditions (2017) - Periodontitis	and Give a second lecture on classification Hadith	1	7
Exams short, and Quarterly, and half year and Final	Theoretical lecture using the program PowerPoint PowerPoint	Etiology of periodontal disease Etiology of periodontal disease and risk Factors Dental plaque biofilm and periodontal microbiology -	the reason Main For gum disease The plate germs	2	8 9
Exams short, and Quarterly, and half year and Final	Theoretical lecture using the program PowerPoint PowerPoint	Microbiologic specificity of periodontal diseases - Traditional nonspecific plaque hypothesis - Specific plaque hypothesis	Theories Scientific Modern To explain nature illness gums chronic	1	10

		<ul style="list-style-type: none"> - Updated nonspecific plaque hypothesis - Ecologic plaque hypothesis - Keystone Pathogen Hypothesis 			
Exams short, and Quarterly, and half year and Final	Theoretical lecture using the program PowerPoint PowerPoint	Periodontal disease pathogenesis <ul style="list-style-type: none"> o <i>Mechanisms of pathogenicity</i> 	How to emergence illness gums chronic And its development and related reason With its development	1	11
Exams short, and Quarterly, and half year and Final	Theoretical lecture using the program PowerPoint PowerPoint	Dental calculus	to explain on How to hardening The plate Bacteria and their transformation to calcifications one solidst	1	12
Exams short, and Quarterly, and half year and Final	Theoretical lecture using the program PowerPoint PowerPoint	Dental stain	expansion knowledge on types pigmentation teeth and its various causes	1	13
Exams short, and Quarterly, and half year and Final	Theoretical lecture using the program PowerPoint PowerPoint	Etiology of periodontal disease <ul style="list-style-type: none"> - Risk factors for periodontal diseases: <ul style="list-style-type: none"> o <i>Definitions of risk factors</i> 	risk factors individuals And its relationship With diseases gums	1	14
Exams short, and Quarterly, and half year and Final	Theoretical lecture using the program PowerPoint PowerPoint	Impact of periodontal infection on systemic health <ul style="list-style-type: none"> - Focal infection theory revisited - Subgingival environment as a reservoir for bacteria) 	expansion exp knowledge on Disease relationship gums with Other diseases that affect individuals	1	15
Exams short, and Quarterly, and half year and Final	Theoretical lecture using the program PowerPoint PowerPoint	Periodontal indices	clarification How indicators to Use gingival Different and methods Measure it	1	16

Exams short, and Quarterly ,and half year and Final	Theoretical lecture using the program PowerPoint PowerPoint	The periodontal pocket).	identification pocket Gingival and its types	1	17
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Exams short, and Quarterly ,and half year and Final	Theoretical lecture using the program PowerPoint PowerPoint	The periodontal pocket - Periodontal disease activity - Pulp changes associated with periodontal pockets	Expand information about ket gingival the po and the reason Its occurrence and changes accompaniment for him	1	18
Exams short, and Quarterly ,and half year and Final	Theoretical lecture using the program PowerPoint PowerPoint	Treatment plan guidelines § - Phase 1 (behavior change, removal of supragingival dental biofilm and risk (factor control):	Definition of a treatment plan for diseases gums How to Planning she has	1	19
Exams short, and Quarterly ,and half year and Final	Theoretical lecture using the program PowerPoint PowerPoint	Treatment plan guidelines - Phase 2 (cause-related therapy)	expansion knowledge including It must be done as part of a .treatment plan patients	1	20
Exams short, and Quarterly ,and half year and Final	Theoretical lecture using the program PowerPoint PowerPoint	Treatment plan guidelines - Phase 3 (corrective/surgical phase)	Definition In operations Surgical gingival How to Conduct it	1	21
Exams short, and Quarterly ,and half year and Final	Theoretical lecture using the program PowerPoint PowerPoint	Treatment plan guidelines - Phase 4 (maintenance therapy)	identification Students The need to follow up the patient and that plan Treatment Continue until After recovery the patient	1	22
Exams short, and Quarterly ,and half year and Final	Theoretical lecture using the program PowerPoint PowerPoint	Periodontal instruments and sharpening - Types of periodontal instruments :	Tools for treating diseases gums And around teeth	1	23
Exams short, and Quarterly ,and half year and Final	Theoretical lecture using the program PowerPoint PowerPoint	Breath Malodor (Halitosis)	Reasons Smells mouth Different	1	24
Exams short, and Quarterly ,and half year and Final	Theoretical lecture using the program PowerPoint	Plaque biofilm Control for the periodontal patient	Definition on How to Control over cleanliness mouth and teeth And its importance	1	25

	PowerPoint		For health gums		
Exams short, and Quarterly, and half year and Final	Theoretical lecture using the program PowerPoint PowerPoint	Systemic anti-infective therapy for periodontal diseases	The most important antibiotics used For treatment illnesses gums	1	26
Exams short, and Quarterly, and half year and Final	Theoretical lecture using the program PowerPoint PowerPoint	Smoking and Periodontal Disease	Smoking And its relationship With gum disease	1	27

Exams short, and Quarterly, and half year and Final	Theoretical lecture using the program PowerPoint PowerPoint	Diagnosis according to the classification of periodontology 2017	How expansive to Correct diagnosis	1	28
Exams short, and Quarterly, and half year and Final	Theoretical lecture using the program PowerPoint PowerPoint	Motivation and Instruction to the patients	How to incentivize The patient and give him Information enough that Specializes in disease	1	29
Exams short, and Quarterly, and half year and Final	Theoretical lecture using the program PowerPoint PowerPoint	The mechanisms of tooth discoloration - Prevention - Treatment approaches	treatment Pigmentation Teeth and hods met prevention from that	1	30
Part practical) the chapter the first and the second (training clinical on patients in clinic illnesses gums with procedure Tests Oral					

.11 rating The decision

Grade distribution of 100 in on according to Tasks The person charge The student has it Like preparation Daily and daily exams and oral And monthly and editorial Reports... etc.
15% half year
25% striving annual) Includes Training Summer and exams
Daily And monthly and requirements The process(20 % final tical examprac
40 % Exam theoretical Final

-12 Learning and teaching resources	
books The reporter methodology) that I found (NEWMAN AND CARRANZA'S Clinical PERIODONTOLOGY AND Implantology, FOURTEENTH EDITION 2024 by Elsevier, Inc.
the reviewer Home	
ooks and the reviewer that b Recommended With it) Scientific journals, Reports.... (Journals of clinical periodontology in the field of specialization and under the supervision of the specialist professor when conducting research or preparing a topic for discussion
the reviewer Electronic, Sites Internet	- Essentials of periodontology - Websites that may publish new modalities and recent news

.315 name Course :illnesses Gums practical
.316 oursecode C :

.317 the chapter / Year :2024 -2024	
.318 date numbers this Description 2024/5/2	
.319 Forms the audience Available :presence students in Clinics	
.320 number watches Academic Total / (I Number) Units (tota) : 90 units 3) hour Practical) (
.321 name responsible The decision Academic) if more From a male name(
<p>Moalla-Mr. Kadhumjawad Alkadhumjawad@uruk.edu.iq</p> <p>Bahadli-Al Ali Hassan Mahdi Mohammed millimeter muhammed.a.hasan@uruk.edu.iq</p> <p>M.M. Shahd Abdul Amir Mazhar</p> <p>M.M. Lina Ibtisam Khalidlina.i.khalid@uruk.edu.iq</p>	
.322Goals The decision	
<ul style="list-style-type: none"> • - he branch he more the goal Main For t awareness Healthy In good health mouth and teeth I have citizens And diagnosis And treatment patients Religion suffers from chronic gum disease through the preparation of a health cadre Of the students who will play this role after their graduation and service in Centers Health widespread in General Iraq • - 2 side Instructor:from during Give Lectures And residence Seminars Scientific And seminars And doing In operations Surgical Advanced for purpose training Students on that 	Goals The material Academic

Clinical and preclinical requirement structure		
Credit hours required	Requirement details	
3 h/week (90 h/year)	Preclinical: Training on Aspects Comfortable For constipation With tools and use it And its	
strategy .323		
	Clinical: Lectures using powerpoint educational movies- LCD <ul style="list-style-type: none"> • • • • • 	any sharpen it ical registration the date Med And medicine teeth- Education the patient And motivate him- - (OHI)directions
		cleanliness mouth- -registration Indicators gums- - (2017) Diagnosis according to the classification of periodontal diseases and conditions- - ot Surgicaltreatment gums n) Peeling Manual+polishing - - Total score : points 1250 = limit The lowest- points 2500 = limit The highest-

Clinical training on patients in the periodontal clinic with
For .with oral examinations30 weeks

.11 decision rating The

distribution degree from 45 on according to Tasks The person in charge With it The student like Preparation Daily and exams Daily and oral And monthly and editorial and reports And processing patients and training Summer

25% living annualst) Includes Training Summer and exams Daily And monthly and requirements The process(20% Exam practical Final

12 sources learning and teaching

<ul style="list-style-type: none"> Newman and Carranza's Clinical Periodontology and Implantology Lindhe's Clinical Periodontology and Implant Dentistry Fundamentals of periodontal instrumentation and advanced root instrumentation (5th edition) 	books The reporter Required(methodology if any)
Newman and Carranza's Clinical Periodontology and Implantology Lindhe's Clinical Periodontology and Implant Dentistry Fundamentals of periodontal instrumentation and advanced root instrumentation (5 th edition)	the reviewer Home) Resources(
Research Modern Published in magazines Global Approved●	books References chock that Recommended it With) Scientific journals , Reports (.....
location College electronic Google scholar Pubmed • researchgate	the reviewer electronic, Sites Internet

name Course: industry teeth) for the stage Fourth/ (theoretical	.324
code Course: PR410	.325
the chapter/ Year :2024 -2024	.326
date numbers this Description2024/5/7	.327
Forms the audience Available:presence in The hall	.328

Academic For the material Theory
number watches AcademicTotal / (Number) Units (total) : .329 30 hour / 60onliness Academic practical hours (3 study hours) 75

.330 name responsible The decision Academic) if more From a male name(
Prof. Dr. Hanan Abdel Rahman Khalaf A.M. Salah Abdullah M.M. Samar Sabah Alwan	
.331Goals The decision	
<ul style="list-style-type: none"> •identification Students on road The material in Theory With topics Miscellaneous Dental material •education Students Steps The process in artificial treatment patients Compensation •supply The student With skills Dealing with patients 	Goals The material Academic
.332Strategies education and learning	
<ul style="list-style-type: none"> •heory And explain it an offer The material T in detail on screen Smart •Use road excitement And the response •urge Students on Use skills thinking Solution problems •create spirit Competition Scientific between Students on road Questions he Direct And other Direct Related By t material Scientific 	Strategy

.10 Structure The decision					
road Evaluation	road learning	name Unity or the topic	Requi red learni ng outco mes	watche s	week

annual -semi exams Annual And final	theoretical	osteology		1	1
annual -semi exams Annual And final	theoretical	myology		1	2
annual -semi exams Annual And final	theoretical	Diagnosis and treatment plan for RPD		1	3
annual -semi exams Annual And final	theoretical	To be continued Diagnosis and treatment		1	4
annual -semi exams Annual And final	oreticalthe	Mouth preparation and abutment tooth preparation		1	5
annual -semi exams Annual And final	theoretical	To be continued mouth preparation		1	6

annual -semi exams Annual And final	theoretical	Impression materials and techniques for R PD		1	7
nnual a-semi exams Annual And final	theoretical	To be continued impression techniques for RPD		1	8
annual -semi exams Annual And final	theoretical	Support in FEE RPD		1	9
annual -semi exams Annual And final	theoretical	Metal check RPD		1	10
annual -semi ual exams Ann And final	theoretical	Occlusion in RPD		1	11
annual -semi exams Annual And final	theoretical	Jaw relation in RPD		1	12
annual -semi exams Annual And final	theoretical	Trial RPD		1	13
annual -semi exams Annual And final	theoretical	Initial placement and adjustment of RPD		1	14
annual -semi exams Annual And final	theoretical	Pre- prosthetic surgery		1	15

annual -semi exams Annual And final	theoretical	To be continued pre- prosthetic syrgery		1	16
annual -semi exams Annual And final	eticaltheor	Diagnosis and treatment plan CD		1	17
annual -semi exams Annual And final	theoretical	To be continued diagnosis and treatment plan for CD		1	18
annual -semi exams Annual And final	theoretical	Impression in CD		1	19
annual -semi exams Annual And final	theoretical	Digital RPD		1	20
annual -semi exams Annual And final	theoretical	TMJ and mandibular movement		1	21

annual -semi exams Annual And final	theoretical	Jaw relation- vertical		1	22
annual -semi exams Annual And final	theoretical	Jaw relational- horizontal		1	23
annual -semi exams Annual And final	theoretical	Try in stage in CD		1	24
annual -semi exams Annual And final	theoretical	Insertion of CD		1	25
annual -semi exams Annual And final	theoretical	Adjustments of CD		1	26
annual -semi exams Annual And final	theoretical	relining and rebasing of CD		1	27
annual -semi exams Annual And final	theoretical	Repair of fractured RPD		1	28
annual -semi exams Annual And final	theoretical	Esthetic RPD		1	29
annual -semi exams Annual And final	theoretical	Post insertion complications in CD		1	30
.11 rating The decision					
<p>Grade distribution of 100 on according to Tasks The person in ly exams charge The student has it Like preparation Daily and dai and oral And monthly and editorial Reports... etc.</p> <p>15% half year 25% striving annual) Includes Training Summer and exams Daily And monthly and requirements The process(25% Exam practical Final 35% Exam theoretical Final</p>					
12 g and teachingsources learnin					
<p>1.Prosthetic treatment for edentulous patient</p> <p>2.McCracken removable partial</p>			<p>books The reporter Required(methodology if any)</p>		

Text book, atlas, besides to book for RPD and CD with paper from the internet	the reviewer Home) sourcesRe(
Textbook of complete denture	books References The support that Recommended With itMagazines scientific, Reports (.....
<ul style="list-style-type: none"> •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) 	the reviewer c, electroni websites

Clinical requirements

Lab number	Study unit title
1	3 acrylic RPD (free end extension).
2	2 acrylic RPD (bounded saddles).
3	1 immediate or flexible RPD
4	1 case repair
Total	75 hours/ year

ecisionmodel a description The d

.342 name Course :to treat teeth
.343 code Course : 519CV
.344 the chapter / Year :2024 -2024

.345 date numbers this Description 2024/5/2	
.346 Forms the audience Available :presence in The ial Theory and Clinics hall Academic For the mater Clinical	
.347 Total number of study hours/ Total numberof units: 30 hours/ 60 units Academic practical hours (6 study units) 150	
.348name responsible The decision Academic(name is mentioned if more than one)	
Prof. Dr. Ammar Atallah Aliammar.a.alsaady@uruk.edu.iq Asst. Dr. Ali Waleed Hadiali.w.hadi@uruk.edu.iq M.M. Hassan Nabil Abdel Qader M.M. Ahmed Laith Salmanahmed.l.salman@uruk.edu.iq M.M. Amjad Majeed Khalafamjed.m.khalaf@uruk.edu.iq	
.349Goals The decision	
-supply students medicine teeth With knowledge Al Vafiya around Methods performance Patient examination Diagnosis Cases different, application understanding And knowledge Clinical effective To In treatment until He is doctor teet serve the society.in this The course Training is underway. students Clinically in specialty medicine teeth RestorativeFillings Fillings roots / Crowns and bridges.(as And it is done submission in clinic students For training Clinical on patient medicine teeth under supervision Specialized professors And it is done also training students on Recognition And dealing with Tools used in medicine teeth Restorative, And provide them With /afiya For principles Basic To work -knowledge Al ies teeth And fill it With fillings Mineral and cavi optical Different And education students steps practical Fillings tooth roots And it is done Their raining on Operations to prepare crowns And Jasoo teeth constant And replace ig students on teeth The missing And traini evaluation Their mistakes And improve Their skills.	Course objectiv es
.350Strategies education and learning	

-Aknowledge and understanding -knowledge And training students on How to to examine And diagnosis Cases Various diseases. -the focus on Steps Sarcasm To prepare crowns and bridges For teeth and compensation teeth The onewho was arrested -Wafiya In steps -acquisition The student knowledge Al Clinical For fillings tooth roots And its application.	Strategy
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- فهم كيفية استخدام ادوات حشوات الجذور وحشوات الاسنان الاعتيادية.

for-Skills Private On the subject -Students acquire skills in using various dental restoration and root filling tools. -acquisition students For skills Clinical from during Empower them from a job Fillings Tooth roots on Patients in clinics. -Empowerment students from Doing By work Clinical from during Their training on preparing crowns And bridges Teeth for the purpose of replacing missing teeth For patients-	
-CMethods education and learning ays to Lectures on research Students and teach them w confront and solve problems.tracking road thinking students and methods Their expression And speed Their response.	
Clinical practical lessons in dental clinics Lectures presented using Computer programs.films Educational. camera Digital.	
-plication practical on Patientsap H- Thinking skills Strengthening skills thinking from during learning The leader on solution problems acquisition Principles Basic stipulated On it in Curriculum learningeducation Students' methods To solve problems. rshipStrengthening ability on Leade K- Skills Public And the transferred)Skills Other	
Related With possibility Employment and development Personal. Scientific preparation for students to They can From the application processing skills teeth In the clinical field. ve thinking Sol problems education Ethics Professional Skills acquired For students in order to becomes doctor teeth able on treatment Patients development Personal.	

.10
structure
The
decision

Eval uati on met hod	road education	Name of unit/ course or topic	Outputs education Required	watches	week
Exams Daily and monthly And a half Annual And final	Theoretical lecture using the program PowerPoint Power Point	to treat teeth	Endodontic diagnosis	1	1
Exams Daily and monthly f And a hal Annual And final	Theoretical lecture using the program PowerPoint Power Point	to treat teeth	Pain control in endo	1	2
Exams Daily and monthly And a half Annual And final	Theoretical lecture using the program PowerPoint Power Point	to treat teeth	Endodontic radiography	1	3
Exams Daily and monthly And a half Annual And final	Theoretical lecture using the program PowerPoint Power Point	to treat teeth	Intracanal instruments (1)	1	4
Exams Daily and monthly And a half Annual And final	Theoretical lecture using the program PowerPoint Power Point	to treat teeth	Intracanal instruments (2)	1	5
Exams Daily and monthly And a half Annual And final	Theoretical lecture using the program PowerPoint Power Point	to treat teeth	Preparation of RCS	1	6
Exams Daily and monthly And a half Annual And And	Theoretical lecture using the program PowerPoint Power Point	to treat teeth	Microbiology	1	7

final					
Exams Daily and monthly And a half Annual And final	Theoretical lecture using the program PowerPoint Power Point	to treat teeth	Terminology & definition of fixed partial denture FPDs	1	8
Exams Daily and monthly And a half Annual And final	Theoretical lecture using the program PowerPoint Power Point	to treat teeth	Types of Fixed Bridges	1	9
s Exam Daily and monthly And a half Annual And final	Theoretical lecture using the program PowerPoint Power Point	to treat teeth	RC filling materials	1	10
Exams Daily and monthly And a half Annual And final	Theoretical lecture using the program PowerPoint Power Point	to treat teeth	Obturation of RCS (1)	1	11
Exams Daily and monthly And a half Annual And final	Theoretical lecture using the program PowerPoint Power Point	to treat teeth	Obturation of RCS (2)	1	12
Exams Daily and monthly And a half Annual And final	Theoretical lecture using the program PowerPoint Power Point	to treat teeth	Endo. Emergency treatment	1	13
Exams Daily and monthly And a half Annual And final	Theoretical lecture using the program PowerPoint Power Point	eth to treat te	Endo-perio relations	1	14

Exams Daily and monthly And a half Annual And final	Theoretical lecture using the program PowerPoint Power Point	to treat teeth	Restoration of endo. treated teeth	1	15
Exams Daily and monthly If And a ha Annual And final	Theoretical lecture using the program PowerPoint Power Point	to treat teeth	Tooth discoloration & bleaching	1	16
Exams Daily and monthly And a half Annual And final	Theoretical lecture using the program PowerPoint Power Point	treat teeth to	Patient Selection and Examination in FPDs	1	17
Exams Daily and monthly And a half Annual And final	Theoretical lecture using the program PowerPoint Power Point	to treat teeth	Clinical Consideration for Bridge Construction	1	18
Exams ily Da and monthly And a half Annual And final	Theoretical lecture using the program PowerPoint Power Point	to treat teeth	Components of Fixed Bridge; Retainers	1	19
Exams Daily and monthly And a half Annual And final	Theoretical lecture using the program PowerPoint Power Point	to treat teeth	Components of Fixed Bridge; Pontics & connectors	1	20
Exams Daily and monthly And a half Annual And final	Theoretical lecture using the program PowerPoint Power Point	to treat teeth	Soft tissue management Gingival Displacement	1	21
Exams Daily and monthly And a half Annual And final	Theoretical lecture using the program PowerPoint Power Point	to treat teeth	Impression Materials & Procedures	1	22

Exams Daily and monthly And a half Annual And final	Theoretical lecture using the program PowerPoint Power Point	to treat teeth	Tooth discoloration & bleaching	1	23
Exams Daily and monthly And a half Annual And final	Theoretical lecture using the program PowerPoint Power Point	to treat teeth	Bite Registration and Articulation	1	24
Exams Daily and monthly And a half Annual And final	Theoretical lecture using the program PowerPoint Power Point	to treat teeth	Provisional Restorations	1	25
Exams Daily and monthly And a half Annual And final	Theoretical lecture using the program PowerPoint Power Point	to treat teeth	Try-in and Shade Selection	1	26
Exams Daily and monthly And a half Annual And final	Theoretical lecture using the program PowerPoint Power Point	to treat teeth	Final Cementation Techniques	1	27
Exams Daily and monthly And a half Annual And final	Theoretical lecture using the program PowerPoint Power Point	to treat teeth	Failures in Fixed Prosthodontics	1	28
Exams Daily and monthly And a half Annual And final	Theoretical lecture using the program PowerPoint Power Point	to treat teeth	Resin-bonded bridges	1	29

Exams Daily and monthly And a half Annual And final	Theoretical lecture using the program PowerPoint Power Point	to treat teeth	Porcelain in Fixed Prosthodontics (Current Ceramic).	1	30
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.11 rating The decision

15%half year
25% striving annual) Includes Training Summer and
exams Daily And monthly Practical requirements(
20%Exam practical
Final40%Exam
theoretical Final

12 sources learning and teaching

books The reporter RequiredMethodology that I found (
Endodontics, English, Pathways of the pulp, Weine
Contemporary Fixed Prosthodontic
Fundamental Consideration in Fixed Prosthodontics.
Theoretical and clinical training in using different materials and
techniques in fixed prosthodontics
Fixed and Removable Prosthodontics

Main References(Sources)
Fundamental Consideration in Fixed Prosthodontics.
Theoretical and clinical training in using different materials and
techniques in fixed prosthodontics
Fixed and Removable Prosthodontics

References chock that Recommended With it booksMagazines
scientific, Reports(.....

the reviewer electronic, Sites Internet

Clinical Requirements

Minimum Requirement	Hours
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2014-2015

<p>The students are required to complete the following restorations:-</p> <p>a. Amalgam Restorations Class I 2cases, Class II 5 cases. Class II Compound restoration 2.</p> <p>b. Composite (tooth colored) Restorations Class III 4, Class IV 2 ,and Class V 2 cases</p> <p>c. Crown 1 unit.</p> <p>d. Endodontics 1 case.</p> <p>These requirements are the absolute minimum needed in order to take the final examination.</p>	5h/wk
Total	150 h/year

model a description The decision

.351 course code :medicine mouth
.352 course code : 5290M
.353 the chapter / Year :2024 -2025
.354 date numbers this Description 2025/5/
.355 Forms the audience Available :presence in The hall Academic For the material Theory
.356 number watches Academic Total / (Number) Units (total) : 30 hour / 60lonliness Academic
.357 Academic name responsible The decision) if more From a male name(
Asst. Dr. Ahmed Adel Othman ahmedadel@uruk.edu.iq M.M. Yasser Mohammed AbdulYassirmohamed@uruk.edu.iq
.358Goals The decision

<ul style="list-style-type: none"> •A scientifically accurate study of oral Soft tissue diseases •study joint Temporal •relationship illnesses mouth With the rest illnesses body And the analyses For patients Laboratory. 	Goals The material Academic
.359ningStrategies education and lear	
<ul style="list-style-type: none"> •Working to graduate dentists with scientific experience and skills Diagnostic in area diseases oral. •Ensure that they have a scientific base in oral And its the field of diseases relationship With the rest parts body. •ng pharmaceutical knowledge Scientific Usi The sick dealing Scientific with patients Healthy 	Strategy

.10 Structure The decision					
road Evaluation	road theoretical learning or practical	name Unity or the topic		watche s	week
Daily and monthly exams And a half alAnnual And fin	theoretic al	principles Diagnosis oral And tests Clinical		2	2 + 1
Daily and monthly exams And a half Annual And final	theoretic al	Tests Laboratory in medicine teeth		2	4 + 3

Daily and monthly exams And a half Annual And final	theoretical	pain mouth and the face		2	6 + 5
Daily and monthly exams And a half Annual And final	theoretical	joint Temporal		2	8 + 7
Daily and monthly exams And a half Annual And final	theoretical	ulcer mouth and pests Vesicular Bubble		3	+ 9 11+10
aily and D monthly exams And a half Annual And final	theoretical	pests oral White And the red		2	13+12
Daily and monthly exams And a half Annual And final	theoretical	Detection early on cancer mouth		2	15+14
Daily and monthly exams And a half nnual And finalA	theoretical	pests mouth pigmented		2	17+16
Daily and monthly exams And a half Annual And final	theoretical	pests The Beneficent , before malicious And the malicious one in cavity mouth		4	19+18 +20+ 21
Daily and monthly exams d a half An Annual And final	theoretical	disorder nervous Muscular		2	23+22
Daily and monthly exams And a half Annual And final	theoretical	illnesses glands salivary		2	25+24
Daily and monthly exams And a half Annual And final	theoretical	nesses Immunity ill Subjectivity		3	27+26 28 +
Daily and monthly exams And a half Annual And final	theoretical	Appearances oral To reply verb Allergic		1	30+29

.11 rating The decision

Grade distribution of 100n on according to Tasks The person i charge The student has it Like preparation Daily and daily exams and oral And monthly and editorial Reports... etc.

15%half year

25% striving annual) Includes Training Summer and exams

Daily And monthly and requirements The process(20 % final tical examprac

40 %Exam theoretical Final

12 sources learning and teaching	
<ul style="list-style-type: none"> Burket's oral medicine 20th ed. TMJ disorders and orofacial pain 	books The reporter Required(methodology if any)
	the reviewer Home) Resources(

•	books References chock that Recommended With it) Scientific journals , Reports (.....
•	the reviewer electronic, websites

model a description The decision

.360 course name:medicine mouth
.361 course code : 5290M
.362 year :2024 -2025
.363 date numbers this Description 2025/5/
.364 Forms the audience Available :presence in Clinics Clinical
.365 number watches Academic Total / (Number) Units (total) : 30 hour / 60lonliness Academic (urspractical hours (3 credit ho 75
.366 name responsible The decision Academic) if more From a male name(
Asst. Dr. Ahmed Adel Othman ahmedadel@uruk.edu.iq M.M. Yasser Mohammed AbdulYassirmohamed@uruk.edu.iq
.367Goals The decision

<ul style="list-style-type: none"> •A scientifically accurate study of oral Soft tissue diseases •study joint Temporal •Study the relationship between oral diseases and other body diseases and Laboratory For patients analyses. 	Goals The material Academic
---	-----------------------------

.368and learning Strategies education	
<ul style="list-style-type: none"> •Working to graduate dentists with scientific experience and skills Diagnostic in area diseases oral. •Ensure that they have a scientific base in oral And its the field of diseases relationship With the rest parts body. •ific Using pharmaceutical knowledge Scient The sick dealing Scientific with patients Healthy 	Strategy

.10 Structure The decision					
road Evaluation	road theoretical learning or practical	name Unity or the topic		watche s	week
Daily and monthly exams And a half Annual And final	practical	Tests Laboratory in medicine teeth		4	1
Daily and monthly exams And a half Annual And final	practical	infection viral		4	2
Daily and monthly exams And a half Annual And final	practical	infection bacterial		4	3
Daily and nthly exams mo And a half Annual And final	practical	infection Instinctive		4	4
Daily and monthly exams And a half Annual And final	practical	illnesses The device respiratory		4	5

Daily and monthly exams And a half Annual And final	practical	s the heart and vessels illness bloody		4	6
Daily and monthly exams And a half Annual And final	practical	illnesses The device Digestive		4	7
Daily and monthly exams And a half Annual And final	practical	illnesses kidneys		4	8
Daily and monthly exams d a half An Annual And final	practical	poverty blood		4	9
Daily and monthly exams And a half Annual And final	practical	Leukemia		4	10
Daily and monthly exams And a half Annual And final	practical	Bleeding diseases and coagulation		4	11
Daily and monthly exams And a half Annual And final	practical	diseases Immunity		4	12

Daily and monthly exams And a half Annual And final	practical	illnesses gland Thyroid		4	13
Daily and monthly exams And a half Annual And final	practical	esdisease Diabet		4	14
Daily and monthly exams And a half Annual And final	practical	pain mouth and the face		4	15
Daily and monthly exams And a half Annual And final	practical	diseases Nervousness Muscular		4	16
Daily and monthly exams And a half final Annual And	practical	joint disorders Temporal		4	17
Daily and monthly exams And a half Annual And final	practical	illnesses glands salivary		4	18

Daily and monthly exams And a half Annual And final	practical	pharmaceutical in medicine teeth		4	19
ily and Da monthly exams And a half Annual And final	practical	pests oral induced With medication		4	20
Daily and monthly exams And a half Annual And final	practical	explanation The image panoramic		4	21
Daily and monthly exams And a half inalAnnual And f	practical	Allergy		4	22
Daily and monthly exams And a half Annual And final	practical	pests ulcerative And the vesicle And the bubble		4	23
Daily and monthly exams And a half Annual And final	practical	pests mouth Al Hamra And the white		4	24
Daily and monthly exams And a half Annual And final	practical	pests mouth pigmented		4	25
Daily and monthly exams And a half Annual And final	practical	pests The Beneficent To hollow out mouth And the jaw		4	26

Daily and monthly exams half And a Annual And final	practical	cancer mouth and the pharynx		4	27
Daily and monthly exams And a half Annual And final	practical	Uses Laser in medicine mouth		4	28
Daily and monthly exams And a half Annual And final	practical	medicine mouth For ults Agead		4	29
Daily and monthly exams And a half Annual And final	practical	medicine mouth For children		4	30

.11 rating The decision

Grade distribution of 100 on according to Tasks The person in
d daily exams charge The student has it Like preparation Daily an
and oral And monthly and editorial Reports... etc.

15% half year

25% striving annual) Includes Training Summer and exams

Daily And monthly and requirements The process(20 % final
practical exam

40 % Exam theoretical Final

12 arning and teachingsources le

<ul style="list-style-type: none"> Burket's oral medicine 20th ed. TMJ disorders and orofacial pain 	books The reporter Required (methodology if any)
	the reviewer Home) Resources(
•	books References The support that Recommended With it Magazines scientific, Reports (.....
•	the reviewer electronic, websites

model a description The decision

.369 name Course : Oral surgery

242

.370 code Course : OS 522

.371 the chapter / Year :2024 -2025	
.372 date numbers this Description 2025/5/	
.373 Forms the audience Available :presence in The hall Academic For the material Theory	
.374 number watches Academic Total / (Number) Units (total) : 30 hour / 60onliness Academic practical hours (6 study units) 150	
.375name responsible The decision Academic	
م. Sundus Abbassundus abbas@uruk.edu.iq Majeed Asst. Dr. Mohammed Saeed Mohammed_S_Majeed@uruk.edu.iq	
.376Goals The decision	
8Goals The decision is to be made The student on high level from Scientific While Related With ols Surgicalsurgery mouth And recognition on To Private By his work in Surgery addition to acquisition knowledge Of all kinds Anesthesia topical and His methods and problems and Complications Associated Withit	Goals The material Academic

.370 code Course : medicine teeth children 529PE /	
.371 the chapter / Year :2024 -2025	
.372 date numbers this Description 2025/5/	
.373 Forms the audience Available :presence in The hall Academic For the material Theory	
.374 number watches Academic Total / (Number) Units (total) : 30 hour / 60onliness Academic 37.5 My work hour is 1.25/ unit	
.375name responsible The decision Academic	
1. Dahan-Ridha Al-Zainab Abdulzainab.aldahan@uruk.edu.iq	
.376Goals The decision	
<ul style="list-style-type: none"> •to understand And comprehension Roads Theory The process For treatment all Cases of infection For teeth children And get to know on Methods and roads Scientific Supported o know How to to By means Clarification T set baby teeth And permanence and problems Related With it •Definition Important medicine teeth children How to Dealing With them and treating children with special needs •Increase knowledge regarding the us diagnosis and treatment of vario Dental diseases in children .conditions •Care Orally and teeth and awareness Milk Until Important Governorate on teeth emergence teeth permanence I have children 	Goals The material Academic
.377Strategies education and learning	
<ul style="list-style-type: none"> • s theoretical Usingthrow Lecture LCD , show data educational movies Show •use Rows Electronic 	Strategy
.10 Structure The decision	

road Evaluation	road theoretical learning or practical	name Unity or the topic	Outputs Learning required	watches	week
y and Dail monthly exams And a half Annual And final	theoretical	Diagnosis and treatment planning		1	1

Daily and monthly exams And a half Annual And final	theoretical	Preliminary medical and dental history		1	2
Daily and monthly exams Annual And a half And final	theoretical	Art and science of behavior management		1	3
Daily and monthly exams And a half Annual And final	theoretical	No pharmacologic management of patient behavior		1	4
Daily and monthly exams And a half Annual And final	reticaltheo	Pharmacologic management of patient behavior		1	5
Daily and monthly exams And a half Annual And final	theoretical	Sedation in pediatric dentistry		1	6
Daily and monthly exams And a half Annual And final	theoretical	of traumatic management of injuries to the teeth and supporting tissues of children,		1	7
Daily and monthly exams And a half Annual And final	theoretical	classification of injuries to the anterior teeth of classification children's clinical methods examination		1	8
aily and D monthly exams And a half Annual And final	theoretical	injuries of the Traumatic primary teeth and its effect on permanent teeth		1	9
Daily and monthly exams And a half Annual And final	theoretical	of injury of Treatment permanent teeth, emergency treatment, temporary restoration of fractured teeth		1	10

Daily and monthly exams And a half Annual And final	theoretical	Advances in Pediatric Dentistry: Advances in diagnostic aids, Advances in cavity preparation methods		1	11
Daily and monthly exams And a half Annual And final	theoretical	Advances in endodontics, Advances in local anesthesia		1	12
Daily and monthly exams And a half Annual And final	theoretical	Advances in restorative materials, Advances in surgical procedures, miscellaneous		1	13
Daily and monthly exams And a half Annual And final	theoretical	Acquired disturbances of oral structures		1	14
Daily and monthly exams And a half Annual And final	theoretical	Developmental disturbances of oral structures		1	15
Daily and monthly exams And a half Annual And final	theoretical	Gingivitis and periodontal disease in children:		1	16
Daily and monthly exams And a half Annual And final	theoretical	Acute candidacies (thrush), acute bacterial infection, chronic non specific gingivitis, gingival diseases modified by systemic factors.		1	17
Daily and monthly exams And a half Annual And final	theoretical	Gingival lesions of genetic origin, ascorbic acid deficiency gingivitis		1	18
Daily and xams monthly e And a half Annual And final	theoretical	diseases in Periodontal children, early onset periodontitis, prepubertal periodontitis, localized juvenile periodontitis		1	19
Daily and monthly exams And a half Annual And final	theoretical	Papillon - Lefevere syndrome, gingival recession, extrinsic stains and deposits on teeth		1	20

Daily and monthly exams And a half Annual And final	theoretical	Management of space problems, planning for space maintenance, loss of primary incisors		1	21
and Daily monthly exams And a half Annual And final	theoretical	Space Maintenance for the First and Second Primary Molar and the Primary Canine Area, premature loss of second primary molar		1	22
Daily and monthly exams And a half Annual And final	theoretical	Loss of the Second Primary Molar Before Eruption of the First Permanent Molar, Areas of Multiple Primary Molar Loss		1	23
Daily and monthly exams And a half Annual And final	theoretical	Development of dental arch and occlusion;		1	24
Daily and monthly exams And a half Annual And final	theoretical	Arch length analysis;		1	25

Daily and monthly exams And a half Annual And final	theoretical	Dental problems of the disabled child		1	26
Daily and monthly exams nnual And a half A And final	theoretical	Mental disability Down syndrome, Intellectual disability, Learning disability		1	27
Daily and monthly exams And a half Annual And final	theoretical	Fragile X syndrome, cerebral palsy, autism,		1	28
Daily and y exams monthl And a half Annual And final	theoretical	Respiratory diseases, hearing loss, visual impairment, epilepsy		1	29
Daily and monthly exams And a half Annual And final	theoretical	Heart disease, Hemophilia, sickle cell anemia, viral hepatitis, AIDS, children with systemic diseases		1	30

.11 rating The decision

distribution degree of 100 on according to Tasks The person in charge The student has it Like preparation Daily and daily exams and oral And monthly and editorial Reports... etc.

15% half year

25% striving annual) Includes Training Summer and exams Daily And monthly and requirements The process(25% Exam practical Final

35% Exam theoretical Final

12 sources learning and teaching

- | | |
|---|---|
| <ul style="list-style-type: none"> • Pediatric Dentistry Damle 3rd ed. 2009 • Textbook of pediatric dentistry • Nikhil Marwa 2nd ed. 2009 New Delh • Handbook of pediatric dentistry (Cameron) mosby Elsevier/4th edition/2013 • Pediatric Dentistry A clinical approach/ Göran Koch, Sven Poulsen/ Wiley Blackwell Publishing Ltd/ 2nd ed./ 2009. • Principles and practice of pedodontists /Arathi Rao Jaypee/second edition 2008 • Paediatric Dentistry/ Richard Welbury/ Fourth edition Oxford University Press, 2012 • Essentials of pediatric dentistry/ Kanchan Harikishan Asnani/ JAYPEE BROTHERS MEDICAL PUBLISHERS/1st ed. 2010 | <p>books The reporter Required(methodology if any)</p> |
|---|---|

<ul style="list-style-type: none"> • Pediatric Dentistry Infancy through Adolescence/ 5th ed. / Paul S. Casamassimo et al./Elsevier/2013 • Pediatric Restorative Dentistry/ Soraya Coelho Leal, Eliana Mitsue Takeshita/ Springer/ Springer International Publishing AG, part of Springer Nature 2019 • Pedodontics Practice and Management/ Badrinatheswar GV/ Jaypee Brothers Medical Publishers/ 1st ed./ 2010 • Restorative Techniques in Paediatric Dentistry/ Duggal et al./ 2nd ed./ Martin Dunitz /2002 	
McDonald's AND AVERY'S DENTISTRY for CHILD and ADOLESCENT 2016 by Elsevier	the reviewer Home) Resources(
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	books References check that Recommended With it) Scientific journals , Reports (.....
<ul style="list-style-type: none"> • www.ajodo.org , PubMed 	viewer the r electronic, websites

No	Title
1	Diagnosis and treatment planning
2	Preliminary medical and dental history,Clinical examination , Radio graphic examination
3	Demonstration how to obtain a complete case sheet
4	Monitoring the developing dentition and recognition of any sign of malocclusion
5	Types of Caries removal techniques
6	Restoration of primary and young permanent teeth with variety types of restorative materials
7	Management of traumatic injuries of the anterior teeth
8	Minor oral surgery
9	Minimal intervention dentistry

10	Pulp therapy for permanent dentition
11	Pulp therapy for primary dentition
12	Materials used for pulp therapy
13	Chrome steel crowns
14	Management of simple cases of dental anomalies and other developmental defects
15	Maintenance of pulp vitality by use of regenerative materials
16	Root canal treatment for anterior non vital teeth
17	Extraction for non restorable primary and permanent teeth or over-retained primary dentition and permanent teeth for space creation for orthodontic treatment
18	Management of molar incisor hypomineralization MIH
19	Behavior management for young patients
20	Infection control re-assurance and guidance of students
21	Tooth colored restoration technique
22	Radiographic prescription and interpretation of results
23	Space maintainers
24	Fluoride application as a preventive measure
25	Amelogenesis imperfecta
26	Supernumerary teeth and their impact on teeth eruption
27	Management of medically compromised children
28	Peg teeth management
29	ART technique
30	Prosthesis usage in pediatric dentistry
Total	

Course name: Preventive dentistry	.378
Course code: 531PD :	.379
Year:2024 -2025	.380
Date: 2025/5/	.381
.382 Available attendance options: Attendance in the classroom for theoretical lectures and practical sessions in dental clinics.	

.383 Total study hours (total units): 30 theoretical hours / 2 study units 37.5 hours of practical work / 1.25 credit unit	
.384 Name of the course coordinator (if there are multiple names, please list them).	
Assist. prof. Dr. Baydaa Ahmed Yas drbaydaaumusama@gmail.com Assit. Lec. Najla Salah Mahdi Assist. Lec. Yasser Basem	
.385 Objectives	
• Introducing the importance of preventive dentistry and its applications for individuals and society, especially for widespread diseases such as tooth decay and gum diseases, as well as in relation to nutrition and immune factors against oral and dental diseases.	
.386 strategy	
1. Formulating information in a way that enables students to understand and increase their knowledge regarding the diagnosis and treatment of various diseases such as tooth decay. 2. Providing specific guidelines for dental care and health awareness to prevent tooth decay and gum diseases. 3. Providing specific guidelines and preventive programs for oral and dental health for the elderly and adults with special needs.	

.course structure					
Eval uati on met hod	Learnin g method	Topics		Hours	a week
Daily exams And monthl y, semi- annual, and final	Theoretical	Preventive dentistry (introduction) <ul style="list-style-type: none"> • What is preventive dentistry? • Prevention is better than a cure • Is preventive dentistry still needed? • Levels of prevention • Caries prevention: how far it had come in one century! 		1	1
Daily exams And monthl y, semi- annual, and final	Theoretical	Dental Caries Development <ul style="list-style-type: none"> • 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 		1	2
Daily exams And monthly , semi- annual, and final	Theoretical	Diagnosis of dental caries <ul style="list-style-type: none"> • 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 (PTR). 		1	3
Daily exams And monthly , semi- annual, and final	Theoretical	Fluoride in Dentistry <ul style="list-style-type: none"> • Fluoride and Dental Caries. • Fluoride in Environment. • Fluoride Metabolism: • Absorption of fluoride • Distribution of Fluoride in the Body. • Fluoride Excretion 		1	4

Daily exams and monthly , semi- annual, and final	Theoretical	<p>Systemic fluoridation (history)</p> <ul style="list-style-type: none"> • Dental fluorosis. • Clinical Appearance and classification of dental fluorosis. • Pathogenesis of dental fluorosis. • Treatment of Dental Fluorosis. • Incipient Caries and Fluorosis Diagnosis 		1	5
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		• Dental fluorosis and bone fluorosis			
Daily exams And monthly, semi-annual, and final	Theoretical	<p>Communal water fluoridation</p> <ul style="list-style-type: none"> • 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 		1	6
Daily exams And monthly, semi-annual, and final	Theoretical	<p>Fluoride supplements</p> <ul style="list-style-type: none"> • Fluoride Supplements. • Instruction to use fluoride supplement (tablet, lozenges or drop) • Fluoridated salt • Fluoridated milk 		1	7
Daily exams And monthly, semi-annual, and final	Theoretical	<p>Topical fluoridation</p> <ul style="list-style-type: none"> • 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. 		1	8
Daily exams And monthly, semi-annual, and final	Theoretical	<p>Self-applied fluoride</p> <ul style="list-style-type: none"> • Requisites for self-applied fluoride agents • Fluoride Dentistry. • Fluoride Mouth rinses • Fluoride Gel. • Fluoride exposure from multiple sources. • Fluoride and Tooth erosion 		1	9
Daily exams And monthly, semi-annual, and final	Theoretical	<p>Professionally applied fluoride</p> <ul style="list-style-type: none"> • Indication of Topical fluoride applications • Types of professionally applied fluorides: • Aqueous Solutions • Fluoride Gels • Fluoride Varnishes. • Fluoride Prophylactic Paste. • Restorative Materials Containing Fluoride • Fluoride Containing Devices (Slow Release). 		1	10
Daily exams And monthly, semi-annual,	Theoretical	<p>Toxicity of fluoride</p> <ul style="list-style-type: none"> • Fluoride toxicity: definition • Sources of excess systemic fluoride • Acute toxicity <ul style="list-style-type: none"> ▪ General factors affecting acute toxicity 		1	11

and final					
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	Theoretical	<ul style="list-style-type: none"> ▪ Clinical signs, diagnosis ▪ Emergency treatment • Chronic Fluoride Exposure (toxicity) <ul style="list-style-type: none"> ▪ Non-dental clinical signs ▪ Medical management of chronic fluoride toxicity • Home Security of Fluoride Products Recommendations to avoid toxicity 			
Daily exams And monthly, semi-annual, and final	Theoretical	<p style="text-align: center;">Microbiology of caries</p> <ul style="list-style-type: none"> • Microbial ecology in the oral cavity • 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) 		1	12
Daily exams And monthly, semi-annual, and final	Theoretical	<p style="text-align: center;">Cariogenic potential of bacteria</p> <ul style="list-style-type: none"> • Virulence of microorganisms • Major dental caries-associated bacteria • <i>Mutans streptococci</i> • <i>Lactobacilli</i> • <i>Actinomyces</i> • <i>Veillonella</i> • Other caries-associated bacteria 		1	13
Daily exams And monthly, semi-annual, and final	Theoretical	<p style="text-align: center;">Dental sealants</p> <ul style="list-style-type: none"> • 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 Sealant s • Sealants for proximal enamel surfaces 		1	14

Daily exams And monthl y, semi- annual, and final	Theoretica l	<p>New approach in restorative dentistry</p> <ul style="list-style-type: none"> • Minimally Invasive Treatment Technique • Minimally Invasive Cavity Preparation • Non-machinery Preparation • LASER • Chemo mechanical Caries Removal 		1	15
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		<ul style="list-style-type: none"> • Preventive Resin Restorations • Remineralization Treatment 			
Daily exams And monthly, semi-annual, and final	Theoretical	<p style="text-align: center;">Diet and dental caries</p> <ul style="list-style-type: none"> • 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 intake sugar and dental caries 		1	16
Daily exams And monthly, semi-annual, and final	Theoretical	<p style="text-align: center;">Non- sugar sweeteners</p> <ul style="list-style-type: none"> • The sweetness of sugars • Non- sugar sweeteners • Bulk sweeteners • Intense sweeteners • Protective factors in food • Fruit and dental caries • Testing food cariogenicity 		1	17
Daily exams And monthly, semi-annual, and final	Theoretical	<p style="text-align: center;">Dietary counseling in dental practice</p> <ul style="list-style-type: none"> • 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 potential • Evaluation of nutritional value • Dietary counseling • Approach to counseling • Motivation 		1	18
Daily exams And monthly, semi-annual, and final	Theoretical	<p style="text-align: center;">Nutrition and oral health</p> <ul style="list-style-type: none"> • 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 		1	19
Daily exams And monthly, semi-annual, and final	Theoretical	<p style="text-align: center;">Nutrition, diet & periodontal disease</p> <ul style="list-style-type: none"> • 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 		1	20

		<ul style="list-style-type: none"> • Nutrition and oral cancer • Primary prevention • Secondary prevention 			
Daily exams And monthly, semi-annual, and final	Theoretical	<p>Saliva and dental caries</p> <ul style="list-style-type: none"> • 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 		1	21
Daily exams And monthly, semi-annual, and final	Theoretical	<p>Oral immune system</p> <ul style="list-style-type: none"> • Immunity • Non-specific immune factors • Specific immune factors • Immunization of dental caries • Vaccination 		1	22
Daily exams And monthly, semi-annual, and final	Theoretical	<p>Oral hygiene measures (Mechanical)</p> <ul style="list-style-type: none"> • Acquired pellicle • Dental plaque • Dental calculus • Mechanical plaque control aids • Toothbrushes • Tooth brushing methods • Powered toothbrush • Objectives of toothbrushing • Interdental Cleaning aids 		1	23
Daily exams And monthly, semi-annual, and final	Theoretical	<p>Oral hygiene measures (Chemical)</p> <ul style="list-style-type: none"> • Ideal properties of chemical plaque control agents • Modes of action • Chlorhexidine • Triclosan • Essential oil mouthwashes or Listerine • Enzymes • Sanguinarine extracts • Metal ions • Antibiotics • Dentures • Composition of dentifrices 		1	24
Daily exams And monthly, semi-annual, and final	Theoretical	<p>Identification of high risk group of dental caries</p> <ul style="list-style-type: none"> • Steps for diagnosis of high risk group • Goals of caries risk assessment • Caries identification • Caries risk factors • Caries protective factors • Caries susceptibility 		1	25

		<ul style="list-style-type: none"> • Caries activity • Caries risk • Factors in caries risk assessment • Caries risk in children Management in children 			
Daily exams And monthly, semi-annual, and final		<p style="text-align: center;">Dental health of disabled and medically compromised patients</p> <ul style="list-style-type: none"> • Disability • Classification of disabling conditions • The issues regarding the delivery of care for people with disabilities • Dental management and preventive measures among disabled people • individuals • The risk factors for dental caries among disabled individuals • People with physical (neurological) impairment • Visual Deficits • Hearing problems • Mentally retardation • medical compromised patients • Specialized Equipment for disabled patient management <p style="text-align: center;">Dental care for Institutionalized disabled individuals</p>		1	26
Daily exams And monthly, semi-annual, and final		<p style="text-align: center;">Geriatric dentistry</p> <ul style="list-style-type: none"> • Aging • Geriatric dentistry • Prevent elderly segment of population • The major results of aging process • Changes of tooth structure • Root caries 		1	27
Daily exams And monthly, semi-annual, and final		<p style="text-align: center;">Health education and motivation</p> <ul style="list-style-type: none"> • Objectives of health education • Principles of health education • Communication • Health education planning • Steps of learning 		1	28
Daily exams And monthly, semi-annual, and final		<p style="text-align: center;">Uses of LASER in dentistry</p> <ul style="list-style-type: none"> • What is LASER? • Laser effects on tissues • Role of laser in preventive dentistry • Certain roles of laser in prevention of dental caries • CO2 laser • Nd:YAG laser • Ruby laser 		1	29

		<ul style="list-style-type: none"> • Erbium lasers • Benefits of dental lasers • Drawbacks of dental lasers • Laser Safety • Laser Safety Officer (LSO) duties 			
Daily exams And monthl y, semi-annual, and final		<p>Prevention of peri-implant disease</p> <ul style="list-style-type: none"> • Dental implant parts • Dental implant and biofilm • Implant Maintenance • Professional care in dental clinic • Home care 		1	30
Eva luat ion met hod	Le arn ing met hod	Practical-topics		Hours	Wee k
Daily and final exams		Diagnosis and treatment planning		2.5	
Daily and final exams		Clinical Preliminary medical and dental history examination , Radio graphic examination			
Daily and final exams		Demonstration and use of Primary prevention program by removing dental plaque and calculus and application of fluoride and fissure sealants			
Daily and final exams		Monitoring of developing dentition, recognition and prevention (through use of space maintainers) or interception of any The following is a summary of the article: of malocclusion			
Daily and final exams		Caries removal and restoration of primary and young developing permanent dentition with variety of restorative materials			
Daily and final exams		Trauma management in anterior teeth			
Daily and final exams		Minimal intervention dentistry by removal of teeth decay and choice of suitable restorative material		One hour	30

Daily and final exams		Pulp therapy for primary dentition			
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Daily and final exams		Management of simple cases of dental anomalies and other developmental defects			
Daily and final exams		Maintenance of pulp vitality by use of regenerative materials and Root canal treatment for anterior non-vital teeth			
Daily and final exams		Extraction for non-restorable primary and permanent teeth or over-retained primary dentition and permanent teeth for space creation for orthodontic treatment			
Daily and final exams		Management of molar incisor hypomineralization MIH			
Daily and final exams		Behavior management for young patients			
Daily and final exams		Infection control re-assurance and guidance of students			
Daily and final exams		Tooth colored restoration technique			
Daily and final exams		Radiographic prescription and interpretation of results			
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.					
.12 sources					
<ul style="list-style-type: none"> Primary Preventive Dentistry by Harris NO Garcia-GodoyF-NatheCN 8th Ed. (20014) Comprehensive preventive dentistry (2012) Edited by Hardy Limeback 			Textbooks		
<ul style="list-style-type: none"> 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 			Main references		

<ul style="list-style-type: none"> • The prevention of oral disease by Murry JJ NunnJH and Steele JG fourth edition, 2003 • Essential of dental caries the disease and its management by Kidd E third edition (2005) • Textbook of Cariology by Fejerscov and Thylstry 1996 • Principles and practice of public health dentistry by Krishna M and DasarPL.2010 • Text book of preventive and social medicine. Gupta M. and Mahajan B.K. 3rd edition, 2003 • Dentistry, dental practices and the community Striffler D, Young W., and Burt B., 5th edition 1999. • Text book Public health dentistry CM Marya, JAYPEE. 2011. • Diagnosis and risk prediction of dental caries . by Axelsson, DDS, PHD, 2000 • Laser in Dentistry guide for clinical practice by Patricia M. Freitas and Alyne Simoes 2015 • Dental caries, the disease and clinical management Ole Fejerslkov and Edwina Kidd., 2nd edition, black well, 2008. • Nutrition in clinical dentistry 3rd ed by Abraham Nizel and Athenas S Papas1989 • Human and nutrition by HelenA Guthrie and Mary Frances Picciano 1995 • Nutrition and immunology principal and practice by Eric Gershwin, Bruce German and Carl L Keen 2000 • Nutrition diet and oral health in Rugg - Gunn AJ and Nunn JH (1999): 1st edt Oxford University Press 	
<ul style="list-style-type: none"> • British Dental Journal • Australian Dental Journal • International Dental Journal • Journal of the Canadian Dental Association • International Journal of Dental Hygiene • Community Dental Health 	

.387 prosthodontics	
.388 course code: PR510	
.389 the chapter / Year :2024 -2025	
.390 date numbers this Description 2025/5/	
.391 Forms the audience Available :presence in The hall Academic For the material Theory	
.392 number watches Academic Total / (ber) Units (totalNum) : 30 hour / 60onliness Academic	
.393) if more	
Assist. Prof. Salah Abid Allah	
.394Goals The decision	
<ul style="list-style-type: none"> •identification Students on road The material Theory With topics Miscellaneous in Dental material •education Students Steps The process in artificial treatment patients Compensation •supply The student With skills Dealing with patients 	al Goals The materi Academic
.395Strategies education and learning	
<ul style="list-style-type: none"> •an offer The material Theory And explain it in detail on screen Smart •Use road excitement And the response •urge Students on Use skills thinking Solution problems •n Scientific create spirit Competitio between Students on road Questions Direct And other Direct Related By the material Scientific 	Strategy

.10 Structure The decision					
road Evaluation	road learning	name Unity or the topic		watche s	week
Daily and monthly exams alf And a h Annual And final	theoretic al	Occlusion in complete denture		2	2 + 1
Daily and monthly exams And a half Annual And final	theoretic al	Retention, stability and support		2	4 + 3
Daily and monthly exams And a half Annual And final	theoretic al	Complications of complete denture		2	6 + 5
Daily and monthly exams And a half Annual And final	theoretic al	Post insertion problems		2	8 + 7
Daily and monthly exams And a half Annual And final	theoretic al	Immediate denture		2	10 + 9
Daily and hly exams mont And a half Annual And final	theoretic al	Classification system for completely edentulous patients		2	+ 11 12
Daily and monthly exams And a half Annual And final	theoretic al	Posterior palatal seal area		1	13
Daily and monthly exams lf And a ha Annual And final	theoretic al	Single complete denture		1	14
Daily and monthly exams And a half Annual And final	theoretic al	Geriatric dentistry		2	+ 15 16
Daily and monthly exams And a half Annual And final	theoretic al	Maxillofacial Prostheses		2	+ 17 18
Daily and monthly exams And a half Annual And final	theoretic al	Residual Ridge resorption		1	19
Daily and monthly exams And a half Annual And final	theoretic al	Dental implantology		3	+ 20 + 21 22
Daily and monthly exams And a half Annual And final	theoretic al	Characteristics of ideal materials for dental implant		1	23

Daily and monthly exams And a half Annual And final	theoretic al	Esthetics in complete denture		2	+ 24 25
Daily and monthly exams And a half Annual And fina	theoretic al	Copy denture		1	26

Daily and monthly exams And a half Annual And final	theoretical	Overdenture		2	+ 27 28
Daily and monthly exams And a half Annual And final	theoretical	Attachments in over denture		1	29
Daily and monthly exams And a half Annual And final	theoretical	Neutral zone in complete denture		1	30

.11 The decision rating

distribution degree from 100 on according to Tasks The person in charge With it The student like Preparation Daily and exams Daily and oral Monthly and editorial Reports... etc.

15% half year

25% striving annual) er and Includes Training Summ

exams Daily And monthly and requirements The

process(25% Exam practical Final

35% Exam theoretical Final

12 sources learning and teaching

<ul style="list-style-type: none"> PROSTHODONTIC TREATMENT FOR EDENTULOUS PATIENTS : COMPLETE DENTURES AND IMPLANT-SUPPORTED PROSTHESES Textbook of Complete Denture PROSTHODONTICS Essentials of Prosthodontics 	books The reporter Required Methodology If found(
Textbooks + internet sources	the reviewer Home Sources
<ul style="list-style-type: none"> Application of the Neutral Zone in Prosthodontics Complete Dentures from Planning to Problem Solving 	books References check which is recommended With it Magazines ,scientific Reports(.....

<ul style="list-style-type: none"> • Post insertion problems and their management in complete denture (https://jemds.com/data_pdf/3_fareedi%20honey-POST%20INSERTION%20PROBLEMS.pdf) • Evaluation of satisfaction and complications in patients with existing complete dentures (https://www.jstage.ist.go.jp/article/josnugd/55/1/55_29/article) 	the reviewer electronic, Sites Internet
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<ul style="list-style-type: none"> • Classification System for Complete Edentulism (https://onlinelibrary.wiley.com/doi/10.1111/j.1532-849X.1999.tb00005.x • Classification System for Partial Edentulism (https://onlinelibrary.wiley.com/doi/10.1053/jopr.2002.126094) • Identification of complete denture problems : a summary (https://www.nature.com/articles/4800703) 	
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.396 course name
practical Dental industry
.397 course code
510PR
.398 year
2024-2025
.399date numbers this Description
2024-2025
.400Forms the audience Available
weekly
.401 number watches Academic Total / (Number) Units(total)
150(credit hours 6) hour Practical
.402 name responsible The decision Academic) if more From a male name(
hmanProf. Hanan Abdel Ra A.M. Salah Abdullah M.M. Samar Sabah M.M. Israa Saad
.403Goals The decision

Clinical requirements

Lab number	Study unit title	Hours
1	2 cases of upper and lower complete dentures	
2	1 single complete denture against partial denture or natural teeth	

3	1 immediate or flexible RPD	
4	1 case repair	
Total		150

.404 course name :calendar teeth For the stage Fifth	
.405 course code: calendar Teeth 5260D /	
.406 year :2024 -2025	
.407 ondate numbers this Descripti 2025/5/	
.408 Forms the audience Available :presence in The hall Academic For the material Theory	
.409 number watches Academic Total / (Number) Units (total) : 30 hour / 60onliness Academic practical hours / 3 study units 90	
.410 name responsible The decision Academic) if more From a male name(
M. M. Anoush Aram Hayek M.M. Hanadi Majeed Hamid	
.411Goals The decision	
<ul style="list-style-type: none"> •Gain knowledge about methods of diagnosing and treating malnutrition cases. Dishes •Goals Skills Private According to the decision: <ul style="list-style-type: none"> .1Diagnosis And treatment Cases ill dishes .2knowledge Types Devices Calendar Related With all condition. •emotional and the value Goals <ul style="list-style-type: none"> .1solution problems Related Badly dishes Using Devices animated calendar and functional	Goals The material Academic
.412Strategies education and learning	

<ul style="list-style-type: none"> • Lectures Using show program) (data point Power •o correct jaw and teethClinics Training T •Seminars 	Strategy
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.10 Structure The decision					
road Evaluation	road theoretical learning or practical	name Unity or the topic	Requ red learn ing outco mes	watche s	week
Daily and monthly exams And a half Annual And final		Orthodontic diagnosis and treatment planning a. Personal data b. Clinical examination i. General body stature ii. Face examination in 3 dimensions iii. Skeletal examination iv. Soft tissue examination v. Occlusion(classification, midline, overjet and overbite vi. Dentition (teeth number, position, dental age, wear, cracks and white spots) vii. Temporomandibular joint		2	2 + 1
Daily and monthly exams And a half Annual And final		c. Diagnostic aids i. orthopantomography (development, advantages, disadvantages, limitations, uses) ii. Study models (preparation, advantages, disadvantages, uses) Handling of dental cast iii. cephalometrics (development, cephalostat, advantages, disadvantages, limitations, uses, tracing and landmarks iv. Soft tissue analysis, digitizing		2	4 + 3
Daily and monthly exams And a half Annual And final		v. Photography vi. 3D imaging d. Consent form e. treatment planning: preventive, interceptive, and corrective orthodontics		2	6 + 5
Daily and monthly exams And a half Annual And final		Treatment of medically compromised patient		1	7

Daily and monthly exams And a half Annual And final		Orthodontic Indices		1	8
Daily and monthly exams And a half Annual And final		Vertical Plane Discrepancy and crossbite a. Deep bite (types, etiology, treatment, skeletal vs. dental) b. Open bite (types, etiology, treatment, skeletal vs. dental)		2	10 + 9
Daily and monthly exams And a half Annual And final		c. Cross bite and scissors bite (types, etiology, treatment, skeletal vs. dental) c. Cross bite and scissors bite (types, etiology, treatment, skeletal vs. dental)		2	+ 11 12
Daily and monthly exams And a half Annual And final		Crowding, spacing, space need: a. Types of crowding (primary, secondary and tertiary)		1	13
Daily and monthly exams And a half Annual And final		b. Space analysis (in permanent and mixed dentition, space required and potential space, methods, Bolton's ratio		1	14
Daily and monthly exams And a half Annual And final		c. Space creation (molar distalization, expansion, extraction, incisor proclination, proximal stripping, derotation and uprightening) d. Closure of spaces (molar protraction, incisor retraction conservative)		2	+ 15 16
Daily and monthly exams And a half Annual And final		e. Teeth extraction in orthodontics (Types: enforced, therapeutic, Wilkinson, balancing and compensating extractions) (indications, advantages, disadvantages for each tooth) f. Serial extraction (definition, indications, procedure, advantages, limitations)		1	17
Daily and exams monthly And a half Annual And final		Treatment of common local factors: including definition, Prevalent, etiology, types, effect on occlusion, and treatment (with emphasis maximum canine): a. Extra-teeth (supernumerary) and missing teeth (hypodontia)		1	18
Daily and monthly exams And a half Annual And final		b. Early loss of deciduous teeth(space maintainers and space regainers) c. Retained deciduous teeth, delayed eruption of permanent teeth, impacted teeth, ankylosis		1	19

Daily and xams monthly e And a half Annual And final		d. Abnormal eruptive behavior (displacement, transposition) e. Large frenum (labial and lingual) f. Bad oral habits		2	+ 20 21
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Daily and monthly exams And a half Annual And final		Treatment of general factors: a. Class I treatment (etiology, skeletal and soft tissue pattern, dental factors, bimaxillary proclination, treatment methods and time; new orthodontic approach)		1	22
Daily and monthly exams And a half Annual And final		b. Class II div. 1 treatment (etiology, skeletal and soft tissue pattern, dental factors, habits, treatment methods and time) c. Class II div. 2 treatment (etiology, skeletal and soft tissue pattern, dental factors, treatment methods and time)		2	+ 23 24
Daily and monthly exams d a half An Annual And final		d. Class III treatment (etiology, skeletal and soft tissue pattern, dental factors, treatment methods and time)		1	25
Daily and monthly exams And a half Annual And final		Treatment of adults Adjunctive orthodontic treatment, Comprehensive orthodontics For adults, problems that are specific to adult patients Orthodontic management of patients with periodontal disease:		1	26
Daily and monthly exams And a half Annual And final		orthognathic surgery (presurgical orthodontics, treatment planning, surgical procedures, postsurgical orthodontics); distraction osteogenesis		1	27
Daily and monthly exams And a half Annual And final		Cleft lip and palate (Embryology, classification, orofacial effects) Treatment of Cleft lip and palate		2	29+28
Daily and monthly exams And a half Annual And final		Digital orthodontics (digital approach in orthodontic diagnosis and treatment)		1	30
.11 rating The decision					
Grade distribution of 100 the person in on according to Tasks T charge The student has it Like preparation Daily and daily exams and oral And monthly and editorial Reports... etc.					
15% half year 25% striving annual) Includes Training Summer and exams Daily And monthly and requirements The process(25% Exam practical Final 35% Exam theoretical Final					
12 sources learning and teaching					
•			books The reporter Required(

	methodology if any)
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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	the reviewer Home) Resources(
•	books References chock that Recommended With it) Scientific journals , Reports (.....
•	the reviewer electronic, websites

Clinical requirements

Item	Minimum Requirements	Hours
	Treatment of one patient: 1- Diagnosis :(Mandatory) a- Case sheet filling & presentation b- Upper and lower impression. c-Study models preparation d- Extra & intra oral photographs e- Cephalometric tracing 2-Treatment plan:(Mandatory) 3- Insertion(Optional) 4- Adjustment or Activation(Optional)	
Total	The student should receive at least one orthodontic case to enter the final exam	75

Course description

413. **Course Name:** Periodontal Diseases (Theoretical)

414. **Course Code:** 528PT

415. **Semester/Year:** 2024-2024

416. **Date of Preparation:** 5/2/2024

417. **Available Attendance Modes:** In-person attendance in the classroom for the theoretical course

418. **Total Hours:** 30 theoretical hours / 60 study units

419. **Course Coordinator:**

420. Course Objectives:

- The main goal of the department is to increase public awareness about oral and dental health, diagnose, and treat patients suffering from chronic periodontal diseases by preparing a health team from students who will undertake this role after graduation and serving in health centers across Iraq.
- The teaching aspect: Delivering lectures, organizing scientific seminars, webinars, and conducting advanced surgical procedures to train students.
- The therapeutic and preventive aspect: Currently, the department diagnoses, treats, and follows up on all cases of periodontal diseases referred to the college, in addition to the preventive measures related to this subject.

421. Teaching and Learning Strategies:

- Comprehensive lectures using presentation programs and electronic boards with assistance from PowerPoint.
- Educational movies, LCD screens, and electronic displays.

10. Course Structure & Evaluation:

Table

Unit/Topic	Learning Outputs	Week	Teaching Method	Assessment Methods	Hours
Periodontal examination and diagnosis	Understanding diagnostic methods for periodontal diseases	1	Lecture Using Power Point	Daily, monthly, quarterly, semi-annual, and final exams using PowerPoint	1
Bone loss and patterns of destruction	Understanding causes, types, and patterns of bone loss	2	Lecture Using Power Point	Same as above	1
Radiographic aids in diagnosis	Using radiographs for diagnosing periodontal and surrounding tissue diseases	3	Lecture Using Power Point	Same as above	1
Advanced diagnosis	Using advanced methods to diagnose periodontal diseases	4	Lecture Using Power Point	Same as above	1
Periodontal response to external forces	Understanding external forces impact on periodontal tissues	5	Lecture Using Power Point	Same as above	1
Immunology	Understanding the role of the immune system in periodontal diseases	6+7	Lecture Using Power Point	Same as above	2
Tooth mobility	Studying tooth mobility causes and treatment methods	8	Lecture Using Power Point	Same as above	1
Epidemiology of periodontal diseases	Study of prevalence and risk factors	9	Lecture Using Power Point	Same as above	1
Prognosis determination	Assessing treatment prognosis	10	Lecture Using Power Point	Same as above	1

Unit/Topic	Learning Outputs	Week	Teaching Method	Assessment Methods	Hours
Interrelationships of periodontal disease and therapy with other dental disciplines	Impact of periodontal diseases and their treatment on other dental specialties	11	Lecture Using Power Point	Same as above	1
Periodontal surgery principles	Understanding of general principles	12	Lecture Using Power Point	Same as above	1
Sonic and ultrasonic instrumentation and irrigation	Using sound and ultrasonic tools in treatment	13	Lecture Using Power Point	Same as above	1
Gingivectomy and local excision	Understanding types and reasons for gingival removal	14	Lecture Using Power Point	Same as above	1
Flap surgery	Studying flap surgical techniques	15	Lecture Using Power Point	Same as above	1
Mucogingival and aesthetic surgery	Tissue regeneration and aesthetic procedures	16	Lecture Using Power Point	Same as above	1
Furcation involvement and treatment	Diseases around root furcations and their management	17	Lecture Using Power Point	Same as above	1
Laser therapy	Using lasers for periodontal treatment	18	Lecture Using Power Point	Same as above	1
Locally delivered controlled release antimicrobials	Using controlled-release drugs in periodontal therapy	19	Lecture Using Power Point	Same as above	1
Management of medically compromised patients	Treating patients with complex medical cases	20+21	Lecture Using Power Point	Same as above	2
Gingival crevicular fluid (GCF)	Study and use in diagnosis	22	Lecture Using Power Point	Same as above	1
Dentin hypersensitivity	Understanding and treating dentin sensitivity	23	Lecture Using Power Point	Same as above	1
Tissue regeneration	Understanding tissue regeneration and treatment of tissue loss	24	Lecture Using Power Point	Same as above	1
Regenerative periodontal	Understanding	25	Lecture	Same as above	1

Unit/Topic	Learning Outputs	Week	Teaching Method	Assessment Methods	Hours
therapy	periodontal tissue regeneration and its treatment		Using Power Point		
Reconstructive surgical techniques	Techniques for tissue regeneration	26	Lecture Using Power Point	Same as above	1
Advanced regenerative approaches	Advanced methods for tissue regeneration	27	Lecture Using Power Point	Same as above	1
Peri-implant anatomy and diseases	Study of implant-related anatomy and diseases	28	Lecture Using Power Point	Same as above	1
Implant complications and failure	Understanding potential issues	29	Lecture Using Power Point	Same as above	1
Supportive implant treatment	Maintenance of implant health	30	Lecture Using Power Point	Same as above	1

11. Course Assessment:

- Total grade is out of 100, based on assigned tasks such as daily preparations, exams, reports, etc.
- **Half-yearly:** 15%
- **Annual effort (including summer training, daily/monthly exams, and practicals):** 25%
- **Final practical exam:** 20%
- **Final theoretical exam:** 40%

12. Learning and Teaching Resources:

- **Main textbooks:**
 - Newman and Carranza's *Clinical Periodontology and Implantology*
 - Lindhe's *Clinical Periodontology and Implant Dentistry*
- **References include:**
 - Recent research articles in reputable international journals
 - Supporting books and recommended references
 - Online resources including the college website, Google Scholar, PubMed, ResearchGate, and other online platforms

Course Description

.422	periodontology –practical
.423	course code: 528PT
.424	year:2024 -2025

.425 Date : 2025/5/	
.426 Forms the audience Available :presence students in Clinics	
.427 number watches Academic Total / (Number) Units (total) : 90 icalhour Pract / credit hours 3	
.428 name responsible The decision Academic) if more From a male name(
Moalla-Kazem Jawad Al Akadhumjawad@uruk.edu.iq Bahadli-Ali Ali Hassan Mahdi Mohammed millimeter muhammed.a.hasan@uruk.edu.iq M.M. Shahd Abdul Amir Mazhar M.M. Lina Ibtisam Khalidlina.i.khalid@uruk.edu.iq	
.429 course objectives	
<ul style="list-style-type: none"> • - the goal Main For the branch he more awareness Healthy In good health mouth and teeth I have citizens And diagnosis And treatment patients Religion suffers from illnesses gums chronic from during numbers cadre healthy From students And those who will perform this role after their graduation and service in Centers Health widespread in General Iraq • 2 side Instructor : from during Give Lectures And residence Seminars Scientific And seminars And doing In operations Surgical Advanced for purpose training Students on that • -3 side Therapeutic Preventive : where Covers Branch currently Diagnosis And treatment And follow up all Cases satisfactory Private with diseases gums gesticulate around teeth The shop to College addition To the special preventive side On this topic 	Objectives
.430 learning strategies	

<ul style="list-style-type: none"> Lectures Comprehensive progress on road Use Programs and data show the Devices With the help of PowerPoint the blackboards smart educational movies- LCD • Screens Electronic presence Operations Surgical And watch it . 	Strategy
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.10 course structure					
Evaluation method	Learning method	Topics	output	hours	Week
Lecture Using Power Point	Daily, monthly, quarterly, semi-annual, and final exams using PowerPoint	How to fill a periodontal case sheet	How to full form Information for patients ammatinflation gums	3	1
Lecture Using Power Point	Daily, monthly, quarterly, semi-annual, and final exams using PowerPoint	Diagnosis and treatment plan	to set Diagnosis healthy plan treatment built on Diagnosis, is The steps include e appropriate interventions	3	2
Lecture Using Power Point	Daily, monthly, quarterly, semi-annual, and final exams using PowerPoint	Periodontal indices	Recognition On types different From catoindis Gum diseases . evaluation on gums In a way periodic To determine level health	3	4
			Gingival		

Lecture Using Power Point	Daily, monthly, quarterly, semi-annual, and final exams using PowerPoint	Ultra sonic scaling	to learn Techniques Cleaning By waves w above audio To remove sedimen s Gingiva l And its applic ation Profes sionall y To impro ve	3	4
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			health tissues Gingival		
Lecture Using Power Point	Daily, monthly, quarterly, semi-annual, and final exams using PowerPoint	Root planning	understand Steps and technologies used in treatment GumsAbility to to implement the plan Therapeutic for patients In a way precise Effective	3	5
Lecture Using Power Point	Daily, monthly, quarterly, semi-annual, and final exams using PowerPoint	Periodontal treatment on patients application practical For students	Participation In practical cases To confront Challenges treatment Gums application Acquired skills in Diagnosis And the treatment is on Patients under Supervision of ialistsspec	3	30-6

.11 course evaluation

distribution degree from 45 on according to Tasks The person in charge With it The student like Preparation Daily and exams Daily and oral And monthly and editorial and reports And processing patients and training Summer

25% striving annual) Includes Training Summer and exams Daily And monthly and requirements The process (20% Exam practical Final

12 resources

<ul style="list-style-type: none"> Newman and Carranza's Clinical Periodontology and Implantology Lindhe's Clinical Periodontology and Implant Dentistry Fundamentals of periodontal instrumentation and advanced root instrumentation (5th edition) 	Textbook
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Newman and Carranza's Clinical Periodontology and
Implantology Lindhe's Clinical Periodontology
and Implant Dentistry Fundamentals of
periodontal instrumentation and
advanced root instrumentation (5th
edition)

the reviewer Home) Resources (

<p>Research Modern Published in magazines Global Approved •</p>	<p>books References chock that Recommended With it) Scientific journals , Reports (.....</p>
<p>College website</p> <p>Google scholar</p> <p>Pubmed</p> <p>• researchgate</p>	<p>the reviewer electronic, websites</p>