Academic Program Description
College of Dentistry-Uruk University

2023-2024

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:8–9–2024

File Completion Date:

Signature:

Head of Department Name:
prof. Dr. Ammar. A. Ali

Date:10–9–2024

Signature:

Scientific Associate Name:
Dr. Ahmed Adel Othman

Date:10–9–2024

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

Department of Quality Assurance and University Performance

Director of the Quality Assurance and University Performance Department:

Date: 8–9–2024

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	Credit Hours Practical
	050102	Biology	2	2
1st	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
2nd	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
3rd	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
4th	050403	Oral surgery	1	4
	050408	General surgery	1	2.5
	050404	Periodontics	1	3
	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
5th	050503	Oral surgery	1	6
	050507	Periodontics	1	3
	050509	Graduation Project	2	None
	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 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	
Assist. Prof. Salah A.A. Mohammed	B.D.S. oral & maxillofacial surgery	M.Sc. in prosthodontics		Staff	
Assist.Prof.Dr. Baydaa A. Yas	B.D.S. oral & maxillofacial surgery	Ph. D. in preventive dentistry		Staff	
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. Dr. Afnan R. Ahmed		**Ph.D. in biology**		**Staff**	
Assist. Lec. Afrah A A Fathel		**M.Sc. in biology**		**Staff**	
Assist. Lec. Hasaneen A. Rahmah		**M.Sc. in biology**		**Staff**	
AAssist. Lec. Falah Hassan Farman		**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**	
Assist. Lec. Zahraa J Saleem		**M. Sc. in medical physics**		**Staff**	
Assist. Lec. Noor S. Abbas		**M. Sc. In computer sceices**		**staff**	

Lec. Dr. Raheem S. Jaber		Ph.D. in biochemistry		Staff	
Assistant lec. Hussain I Hayal		M.Sc. in biology		Staff	
Assistant lec. Aya I Abed Al-Razaq		M.Sc. in computer sciences		Staff	
Assistant lec. Ayma THamer Hassan		M.Sc. in computer sciences		Staff	
Lec. Dr. Rabab Q Hassan		Ph. D. in biology		Staff	
Assist. Lec.Ali MM Jafar		M.Sc. in general histology		Staff	
Assist. Lec. Israa S Mohamed		M.Sc. in preventive dentistry			Lecturer
Assist. Lec. Rasha Adel Othman		M.Sc. in oral surgery			Lecturer
Assist. Lec.Sara Adel Abid Baqer		M.Sc. in periodontics			Lecturer
Assist. Lec. Sabreen A Mohammed		M.Sc. in Prosthodontics			Lecturer
Assist. Lec. Anosh A Hyick		M.Sc. in orthodontics			Lecturer
Arwa A Abid		High diploma in orthodontics			Lecturer

Lec. Dr. Haider latif		**Ph.D in general histology**			**Lecturer**
Assist. Lec. Hadeel I Ibrahim		**M.Sc. in prosthodontics**			**Lecturer**
Assist. Lec.Alaa H Jasim		**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: 2023-2024
4-Date of course preparation: 2024/5/24
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)
Assist. Prof. Dr.Khaleel A Hasoon Khaleelawad@uruk.edu.iq Lec. Dr. Atheer alhaddad atheer.a.alhaddad@uruk.edu.iq
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	- 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
Daily, monthly, semi-annual and final exams	Theoretical lecture using the program power point	▪ 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	Theoretical lecture using the program power point	Skeletal system of the body: Skull	2	7&6	

final exams		:Cranial Bones		
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 ▪ Auditory ossicles Hyoid bone	2	&14 15
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	▪ Structure of the Thoracic Wall ▪ Joints of the Chest Wall ▪ Supraple ural Membra ne ▪ 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	&2021

Daily, monthly, semi-annual and final exams	Theoretical lecture using the program power point	Pericardium, Heart, Large arteries, veins and nerves of thorax		3	22و 23 و 24
Daily, monthly, semi-annual and final exams	Theoretical lecture using the program power point	▪ 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	▪ 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

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

1. Snell Clinical anatomy 7th edition. 2. Netter's head and neck anatomy for dentistry 2nd 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	□ Introduction to Human Anatomy □ 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 □ Major Foramina and Fissures locations and structures pass through □ Neonatal Skull	2
13	The Cranial Cavity □ Major Foramina and Fissures locations and structures pass through □ Neonatal Skull	2
14	□ Skeleton of the Orbital Region, Openings into the Orbital Cavity □ Skeleton of the External Nose, nasal cavity, Paranasal Sinuses □ Auditory ossicles □ Hyoid bone	2

Course description

10. course title: Arabic
11. course code: 109AL
12. Year : 2024-2023
13. Date of course preparation: 2-5-2024
14.Attendance forms available: : Attendance in the classroom for the theoretical subject
.15 **Number of study hours (total/(number of units) (total)**: 30 hours/60 study units
.16 Name of course administrator:
17. course objectives

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. Developing the university mentality through learning about the correct Arabic language.	Objectives of the study subject
18. Teaching and learning strategies	
Lectures using the Point] [power] program • Scientific discussions Guiding students to some specialized websites • Providing students with lectures from Arabic books on grammar, literature, and dictation	Strategy

10. Course structure					
Evaluation method	Learning method	Unit name or the topic	Required learning outcomes	Hours l	Week
Daily, monthly, semi-annual and final exams	Theoretical lecture using the program power point	Arabic languag e	**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

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
%15per year (including annual and monthly exams) 70%
final final exam

. 12.Learning and teaching resources

Arabic language for non-major departments	Required textbooks (methodology, if any)
Explanation of Ibn Aqeel A comprehensive collection of Arabic grammar lessons Rules for studying the Arabic language	Main references (sources)

Course Description Form

.1Course Name: Computer Science
2. Course Code: 103CS
3. Semester/year: 2023-2024
.4 Date of preparation of this description 2024/5/2
.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

• 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	
• 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

• Technology-based learning: uses technology in the learning and teaching process, such as the use of multimedia and online learning.	

1. Course Name: Computer Science
2. Course Code: 103CS
3.Semester/year: 2023-2024
4. Date of preparation of this description: 5/5/2024
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

Strategy	
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. Technology-based learning: Uses technology in the learning and teaching process, such as the use of multimedia and online learning.	

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 %25 requirements) 20% final practical exam final waiting exam %40

. 12Learning 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 : 2024-2023 .21

22. Date of preparation of this description: 2024/5/2
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	
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. Send feedback Side panels History Saved	Course objectives
• Subject-specific skills Providing students with the skills to distinguish between different teeth by knowing the anatomical properties of the teeth. - 1 Students acquire the skills of sculpting tooth shapes using wax molds. -2 Preparing students for clinical work by providing them with the skills of reshaping dental details with dental filling material. - 3	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 Heterodent 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 1St Premolar.	8
2	Practical Training of Carving of P. Max. Right 1St Premolar.	9
2	Practical Exam. of Carving of P. Max. Right 1St Premolar.	10
2	Description & Carving of the Buccal & Mesial & Occlusal Aspects & Finishing of P. Mand. Right 1St Premolar.	11
2	Practical Training. Of Carving of P. Mand. Right 1St Premolar.	12
2	Practical Exam. Of Carving of P. Mand. Right 1St Premolar.	13
2	Description & Carving of the Buccal & Mesial & Occlusal Aspects & Finishing of P. Max. Right 1St molar.	14
2	Practical Training of Carving of P. Max. Right 1St molar.	15
2	Practical Exam. of Carving of P. Max. Right 1St molar.	16
2	Description & Carving of the Buccal & Mesial & Occlusal Aspects & Finishing of P. Mand. Right 1St molar.	17
2	Practical Training of Carving of P. Mand. Right 1St molar.	18
2	Practical Exam. of Carving of P. Mand. Right 1St molar.	19
2	Final Practical Exam. Of tooth Carving.	20

11. course evaluation

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.

15% mid-year
25% annual work (including summer training, daily and monthly exams, and practical requirements)
20% final practical exam
40% final theoretical exam

12. Learning and Teaching Resources

1. Woelfel's dental anatomy, its relevence 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: 2024-2023
.31 Date: 2024/5/6
.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 demogracy	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

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 (including daily and monthly exams) %15
70% final theoretical exam

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). (
•	
•	

Course description

37. Course code: Medical chemistry
.38 course code 106CH
.39 year: 2024-2023
.40 date 2024/5/2
.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

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	Tiltle	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

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 Nucliec acids	2	30

	point				
			Final exam		
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 daily and monthly exams and %25 practical requirements)					

	20 final practical exam 40% final theoretical exam
12. Learning and teaching resources	
The Chemical Basis Of • Life :General ,Organic, and Biologigal 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
•	
•	

Course description

.46 Medical chemistry
.47 course code : 106CH
.48 year : 2024-2023
.49 Date: 2024/5/2
.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

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

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

annual endeavor (includes daily and monthly exams and %7 practical requirements) 20% final practical exam

12. Learning and teaching resources

• The Chemical Basis Of Life :General ,Organic, and Biological Chemistry for the Health Sciences By George H.Schmid	Required textbooks (methodology, if any)
• **Practical Organic And BIO- Chemistry** **BY** **R. H. A. PLIMINER** **Reader in Physiological Chemistry, University of London, University College** • **A text-book of macro and semimicro qualitative inorganic analysis .** **Fifth Edition Revised by** **G. Svehla, Ph. D., D. Sc., F. R. I. C Reader in Analytical Chemistry, Queen's University, Belfast**	Main references (sources)
•	

•	

Course name: Medical physics
Course code: PS 107
Year :
2023-2024
Date:
2/5/2024
5. Available forms of attendance:
Attendance at full-time, permanent, with entry to the laboratory
6. Number of study hours (total/number of units (total):)
60 theoretical hours / 240 theoretical credits
7. Name of the course administrator (if more than one name is mentioned)
Prof. Dr. Orouba Jamil Tarish
8. course objectives

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

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

half the year %15

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	
• Medical Physics by John Cameron • Physics of the human body by Irving Herman	Required textbooks (methodology, if any)
• physics for scientists and engineer, Raymond A, serway, 1987.	Recommended supporting books and .....references (scientific journals, reports)
•	

Course description

.10 course name

Medical physics

11. course code medical physics PS 107

12. Year:

2023-2024

Date :

2/5/2024

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

• 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		
The relationship of physics to humans -2Physical effects within the human body -3Physical applications on the human body for diagnosis and treatment. 4- Improving the performance of the human body through physical means -5The relationship of all this information to human health 6- Lectures and discussion to consolidate ideas 7- Experiments, laboratories, and preparing reports 8- Using e-learning	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.	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	-Measurement of deflection sensitivity of A. C. voltage	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 1st 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. - To verify Stokes' law	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		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. - Calculated the theoretical and practical values of the velocity of sound and comparing between them.	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		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. - To calculate curvature value of this converging lens	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		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 2nd 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	
• Medical Physics by John Cameron • Physics of the human body by Irving Herman	Required textbooks (methodology, if any)
• physics for scientists and engineer, Raymond A, serway, 1987.	Recommended supporting books ,and references (scientific journals .....) Reports
•	

Course description

.55 course name : Biology
.56 course code : 108 BL
.57 Year : 2024-2023

.58 date 2024/5/3	
.59 attendance form : theoretical lectures	
60. Number of academic hours (total/(number of units) (total): 60 theoretical hours/240 organizational units.	
.61 administrator name	
Assist. Lec. . Hassanein Ali Rahma hasanain.a.rahma@uruk.edu.iq	
.62 course objectives	
Introduction to general biology • Study of cell and tissue science • Study of medical parasitology •	Objectives
	learning strategy .63
• 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 ا لساعات**		**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:sarcodina	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:flagellata	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:ciliataand 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:trematoda	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	
• Human biology	The required prescribed books (the methodology if available)
1- 1-Paniker's Textbook of Medical parasitiolgy eight edition(2018) **2-** Textbook of Histology , (2020) by Leslie P. Gartner , Elsevier Health Sciences, Medical - 704 pages. 17)0**3-** CELL BIOLOGY, Third edition. (2 Thomas. D; William .C; Jennefer. L. and Graham. T. Printed in U.S.A.	Main references (sources)
•	Recommended books and supporting references (scientific journals, reports, etc.)
https://openstax.org/books/anatomy-and-physiology/pages/1-introduction https://www.cdc.gov/index.htm	Electronic references, websites

Course Description

Biology .64
Code : 108 BL .65
Year : 2024-2023 .66
Date: 2024/5/3 .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	
• Introduction to General Biology • Study of Cell and Tissue Biology • Study of Medical Parasitology	Objectives
learning strategy .72	
• 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 tssue	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 Biology	Muscular tissue	2	14
Exams Short, next The practical part, and Final	Using PowerPoint point and then applying the practical part practical	Biology Biology	Nervous tissue	2	15
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	***Giardia lambelia* and Trichmonas spp**	2	17
Exams Short, next	Using PowerPoint point and then applying the practical part practical	Biology Biology	Leishmania sp	2	18
The practical part, and	Using PowerPoint point and then applying the practical part practical	Biology Biology	Trypanosoma spp	2	19
	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 Biology	Balantidium spp	2	21
	Using PowerPoint point and then applying the practical part practical	Biology Biology	*Faciola hepatica*	2	22
	Using PowerPoint point and then applying the practical part practical	Biology Biology	Schistosoma spp	2	23
Exams Short, next The practical part, and Final	Using PowerPoint point and then applying the practical part practical	Biology Biology	*Echinococcus granulosus*	2	24
	Using PowerPoint point and then applying the practical part practical	Biology	*Taenia saginata*	2	25
Exams Short, next The practical part, and Final	Using PowerPoint point and then applying the practical part practical	Biology	*Taenia solium*	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 Biology	Ascaris spp	2	28
	Using PowerPoint point and then applying the practical part practical	Biology Biology	*Enterobius vermicularis*	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
Textbooks • Human biology

1- 1-Paniker's Textbook of Medical parasitiolgy eight edition(2018) **2-** Textbook of Histology , (2020) by Leslie P. Gartner , Elsevier Health Sciences, Medical - 704 pages. 17)0**3-** CELL BIOLOGY, Third edition. (2 Thomas. D; William .C; Jennefer. L. and Graham. T. Printed in U.S.A.	Main references (sources)
•	
https://openstax.org/books/anatomy-and-physiology/pages/1-introduction https://www.cdc.gov/index.htm	Electronic references, websites

Course description

.English	
109EL code: .74	
2024-2023 year: .75	
2024/5/5 date .76	
attendance form: theoretical lectures .77	
Number of study hours (total/(number of units) (total): 30 hours/60 study units .78	
administrator (.79	
Dr. Hayder latif	
Objectives .80	
Objectives	• 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
learning strategy .81	
Strategy	• Cooperative learning strategy among students • Brainstorming • Double coding (linking words to pictures)

.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 reproductive system And urinary tract in the body	1	12
Daily, monthly, semi-annual and final exams	Theoretical	Dental Terminology Part 1	Knowledge of medical terminology 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 conversations	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

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 (including daily and monthly exams) %15 70% final theoretical exam

.12 learning sources

• 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 : 2024-2023

.85 Date : 2024/5/5
.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	
• 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	
•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,hygroscpic 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 -classificatio 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 . Ceep-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	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	16
Daily, monthly, semi-annual and final exams	Theoretical	Properties of heat-cure Composition of chemically activated resin Compared to heat activated resins Light activated resin Composition Processing errors -porosity1 -crazing2 -warpage3 Recent advance		1	17

Daily, monthly, semi-annual and final exams

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

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 sources

• Phillips applied dental material • Restorative dental material • Dental material their selection and use	Required textbooks (methodology, if any) .....
• Phillips applied dental material • Restorative dental material	Main references (sources)
• Introduction to Dental Materials	Recommended supporting books and references (scientific journals, reports)

course description

Course Name: Dental Materials
.92 Course code : DM209

.93 Year : 2024-2023
.94 Date: 2024/5/5
.95 The date of preparation of this description is 5/5/2024
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	
• 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	
• 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,hygroscpic 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 -classificatio 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	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 . Ceep-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	33
Daily, monthly, semi-annual and final exams	Practical	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	34
Daily, monthly, semi-annual and final exams	Practical	alternative of gold alloys, metal ceramic alloys(requirement, types), removable denture base alloys(requirements, types), co/cr alloy(application, composition, properties, advantages, disadvantages)		1	35
Daily, monthly, semi-annual and final exams	Practical	Titanium and Titanium alloys: Applications, properties, Ni/cr alloys, composition, indications, wrought stainless steel alloy		1	36
Daily, monthly, semi-annual and final exams	Practical	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	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 -porosity1 -crazing2 -warpage3 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

• Phillips applied dental material • Restorative dental material • Dental material their selection and use	Required textbooks (methodology, if any) .....
• Phillips applied dental material • Restorative dental material	Main references (sources)
• Introduction to Dental Materials	Recommended supporting books and references (scientific journals, reports)

Course description

.100 course name: prosthetics
.101 course code : 210PR

.102 Year: 2024-2023
.103 Date: 2024/5/6
. 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	
• 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 The practical steps that the student will follow to make the complete kit •	Objectives
.108 Teaching and learning strategies	
• 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 Scientific	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**	2	2 + 1
Daily, monthly, semi-annual and final exams	Theoretical 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 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 • 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

109 course name Prosthodontics

110. course code : 210PR
111.Year : 2024-2023
112. Date the description was prepared 1122024/5/6
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

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
. 117 Teaching and learning strategies	
Strategy	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 • •

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 ❑ Supporting structures ❑ Limiting structures ❑ 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 ❑ Supporting structures ❑Limiting structures ❑ Relief areas.		2	4 + 3
	Theoretical lectures by using power point program	Impression tray - Definition ❑ Parts of the impression tray ❑ Types of tray ❑ Stock tray – Definition ❑Types of stock trays ❑ Factors effect in selection of stock tray			

Daily, monthly, semi-annual and final exams	Theoretical lectures by using power point program	Special tray ❑ Advantages of special tray ❑ Materials used for construction of special tray ❑ Types of special tray Techniques or methods for construction of special tray ❑ Criteria for special tray construction. ❑ Complete denture impression - Definition ❑ Objective of impression making ❑ Primary impression - Definition ❑ Materials used for making primary impression ❑ Primary cast - Definition ❑ Production of study cast ❑Secondary impression Definition - ❑ Master cast- Definition ❑ Materials used for final impression ❑ Technique used for making final impression ❑ Boxing an impression and making the casts ❑ Advantages of boxing ❑ Common fault in impression making. 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 ❑ Ligaments ❑ Muscles. Mandibular axes and mandibular movements ❑ Knowledge of mandibular movements ❑ 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 ❑ Method of recording occlusal vertical dimension ❑ Pre – extraction records ❑ 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 ❑ Definition ❑ Functions of articulator ❑ Requirements of articulator ❑ Types of articulator. Face- bow ❑ Definition ❑ Parts of face – bow ❑ Types of face – bow ❑ Important of the face-bow			
Daily, monthly, semi-annual and final exams	Theoretical lectures by using power point program	**Mounting** ❑ Definition ❑Preparation of articulator ❑ Preparation of the casts and mounting the upper cast on CL II articulator ❑ Mounting the lower cast ❑ Errors occurred during mounting		1	13
Daily, monthly, semi-annual and final exams	Theoretical lectures by using power point program	**Selection of anterior teeth** ❑ The factors of shade selection ❑ Size selection a. Length b. Width ❑ Form selection ❑ Materials of anterior teeth ❑ Difference between acrylic and porcelain teeth		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 ❑ Arrangement of anterior teeth ❑ 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 ❑ Compensatory curves ❑ Arrangement of lower posterior teeth ❑ Arrangement of upper posterior teeth ❑ 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 ❑ Definition ❑ Requirements of waxing the polish surfaces		3	+ 20 + 21 22
	Theoretical lectures by using power point program	❑ The procedure of waxing ❑ Establishing the posterior palatal seal area ❑ Procedure for carving of posterior palatal seal area ❑ Advantages of posterior palatal seal ❑ Esthetic consideration in complete denture. **Complete Denture Occlusion** Occlusion ❑ Occlusion of complete denture ❑ Centric occlusion ❑ Centric relation. Eccentric occlusion ❑ Concepts of complete denture occlusion ❑ 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 ❑ 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 ❑ Selective grinding ❑ Correction of occlusal errors ❑ Disadvantages of intra oral correction – ❑ 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 ❑ Causes of denture fracture ❑ Types of repair ❑ 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 ❑ Replacement of missing or lost part ❑ 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: 2023-2024

. 121 The date of preparation of this description is 5/2/2024

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
124. Name of the course administrator (if more than one name is mentioned)
Prof . Ghada Musa Mustafa Ghadamoosa@uruk.edu.iq Assist. Lec. Ibrahim Fouad Muhammad Ibrahim.f.mohamed@uruk.edu.iq

.125 course objectives	
Preparing dental students with knowledge and skills to characterize oral tissues, use advanced staining techniques, and understand histological examination • Objectives: • Understand and distinguish different oral tissues. • Mastering the use of staining techniques for diagnostic purposes. • Acquire skills in tissue cutting techniques • •	Objectives

.126 learning strategy	
• 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

.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

• 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 Biochemistry
.128 course code : 212BC
.129 year : 2024-2023
.130 Date: 2024/5/2

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

.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	
• 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	
• 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 : Biochemistry 212 BC
.3 Year : 2024-2023
.4 Date: 2024/5/2
.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	

Structure

Evaluation method	Learning method	Topic name	Learning outcomes	Hours	Week
Daily and final exams, practical lab activities It involves writing and correcting experiment reports.	Theoretical-practical lecture using the Point Power program, with an experiment Practical session and presentation of educational videos	Biochemistry	Lab safety	2	1
Daily and final exams, practical 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

.136 Course name : general histology	
.137 213 GH Course code:	
.138 2024-2023 Year	
.139 Date 2024/5/2	
.140 Attendance form: theoretical lectures	

.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	
• 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	
• 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	
• 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 descriprion

Course name : general histology .145
Course code: 213 GH .146
Year: 2024-2023 .147
Date : 2024/5/2 .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	
• 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 : 2024-2023
.157 Date 2024/5/2
.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

• 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

162. strategy

• 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

.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 Daily, monthly, and semi-annual exams Annual and final Daily, monthly, and semi-annual exams Annual and final	Theoretical lecture using the program powerpoint Theoretical lecture using the program powerpoint 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 Daily, monthly, and semi-annual exams Annual and final	Theoretical lecture using the program powerpoint 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		

.11course 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
•	
•	

Course description

.163 course name : physiology –practical

.164 course code : physiology PH/ 214
.165 Year: 2024-2023
.166 Date: 2024/5/2
.167 attendance form: at lab
.168 Total study hours (total)/(total units) total: (60 hours) practical/(2 study units)
.169 a d m i n i s t r a t o r n a m e
lec. Dr. Thaer Saleem Salman tsss1958@uruk.edu.iq assist. Lec. Ali Maki Jaafar ali.m.jaafar@uruk.edu.iq
.170 course objectives

• 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	
• 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

			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					
.					

	(
1- Medical physiology (Gyton) 2- Essential physiology for dental students	Main referenes
•	
•	

.172 course name: Sciences Computer
.173 code : 103CS
.174 year : 2024-2023
.175 date: 2024/5/2
.176 theoretical lectures
.177 Total credit hours (total) / Total units (total): 30 hours / 60 study units
.178 administratorname
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 |	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 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	Working with Taskbar and Desktop+ Using Windows Accessories	1	8 + 7
Daily, monthly, and semi-annual	Theoretical lecture using	computer	A look at Control Panel+ Widows Explorer	1	10 + 9

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

			page Appearance		
Daily, monthly, and semi-annual exams Annual and final	Theoretical lecture using the program powerpoint	computer|	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	Theoretical lecture using the program powerpoint	computer|	Formatting a worksheet/ Developing a work book/ Printing Workbook Contents/Customizing Layout	1	19
Daily, monthly, and semi-annual exams Annual and final	Theoretical lecture using the program powerpoint	computer|	Introduction about Microsoft Access/ A look at Microsoft Access+ Creating Data tables /properties of the fields	1	21 + 20 22 +
		computer|	Querying the database/Designing Forms/Producing reports	1	23
		computer|	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 Annual and final	Theoretical lecture using the program powerpoint		Manipulating the slides/Using Multimedia Elements	1	28 + 27
			Power point Management	1	29
Daily, monthly, and semi-annual exams Annual and final	Theoretical lecture using the program powerpoint		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

Formatting a worksheet t/ Developing a workbook	• Windows 10 • Office 2016 Computer fundamentals and their office applications Part One and Part Two	Required textbooks (curriculum if available)

1- Computer application in	

management 2-E-learning concepts and techniques	

Course name : Sciences Computer .181
Course Code : 103CS .182
Year : 2024-2023 .183
Date 2024/5/5 .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/Customizing 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)

		• Windows 10 • Office 2016	Required textbooks (curriculum if available)
		• Computer application in management • E-learning concepts and techniques	Main references

human anatomy .189

209AT course code : .190

2024-2023 year: .191
2024/5/2 date .192
theoretical lectures .193
.194 Total study hours (total)/(total units): 30 hours/60 study units 60 practical hours / 120 study units
Administrator .195
Lec. Dr. Thanaa Jameel Mahdi Darwish thenajkhishali@uruk.edu.iq
objectives .196

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.	
strategy .197	
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	Face Skin of the Face Muscles of the Face (Muscles of Facial Expression) Sensory Nerves of the Face Arterial Supply of the Face venous driange of the Face venous driange of the Face Lymphatic driange of the face Facial nerve		2	9&8
Daily, monthly, semi-annual, and final exams	Theoretical lecture using the program PowerPoint power point	Oral cavity The Lips The oral Cavity vestibule and Proper Sensory innervation of the Mouth Hard Palate & Soft palate Muscles of the Soft Palate Palatoglossal Arch & Palatopharyngeal Arch		2	&10 11
Daily, monthly, semi-annual, and final exams	Theoretical lecture using the program PowerPoint power point	Tongue Mucous Membrane of the Tongue Muscles of the Tongue Movements of the Tongue		1	12
Daily, monthly, semi-annual, and final exams	Theoretical lecture using the program PowerPoint power point	Temporal region The temporal fossa anatomy The infratemporal fossa Communications Muscles of mastication		1	13
Daily, monthly, semi-annual, and final exams	Theoretical lecture using the program PowerPoint power point	Parotid gland Parotid Region (Boundaries) Parotid Gland Parotid Duct Innervation of Parotid Gland and Related Structures Arterial Supply Venous Drainage Lymph Drainage The Buccal Pad of Fat Clinical Notes		2	&14 15
Daily, monthly, semi-annual, and final exams	Theoretical lecture using the program PowerPoint power point	The Pterygopalatine fossa Boundaries, Communications and openings Maxillary nerve Branches from the pterygopalatine ganglion THE PTERYGOPALATINE GANGLION THE VEINS OF THE PTERYGOPALATINE FOSSA		1	16
امتحانات يومية وشهرية	Theoretical lecture using the program PowerPoint power point	Temporomandibular joint Introduction The Articular Disk		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 .

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 sources

1. Snell Clinical anatomy 7th edition. 2. Netter's head and neck anatomy for dentistry 2nd 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 2023-2024

.198l course name : Microbiology
.199 course code: 315MB
.200 Year : 2024-2023

.201 Date : 2024/5/2
.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

• 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
• 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 *Corynebacterium diphtheriae* & 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	Mycobacteruim -Tuberculosis & Leprae	2	18
Daily, monthly, semi-annual, and final exams	Theoretical lecture using the program PowerPoint power point	Microbiology	Brucella, Haemophilus, Vibirio	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, leptotichia	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 Rickittsiae	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
•	
•	

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

Year : 2024-2023	.209
Date: 2024/5/2	.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)
Lec.Dr. Afnan Riyad Ahmed Saleh afnan.riyadh@uruk.edu.iq Lec.Dr. Rabab Qasim Muhammad

.214 course objectives	
• 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 stragtegy	
• 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 Microbiolgy 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-Macroscopical characteristics	2	8

			(colonial morphology and cultural characteristics).		
Daily and final exams, preparing seminars, practical activities in the laboratory Daily and final exams, preparing seminars, practical activities in the laboratory	Theoretical lecture using the program PowerPoint ،power point 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	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	Corynebacterium	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: Bacillus spp.	2	22

Daily and final exams, preparing seminars, practical activities in the laboratory	Theoretical lecture using the program PowerPoint ،power point	Microbiology	Clostridium spp.	2	23
Daily and final exams, preparing seminars, practical activities in the laboratory	Theoretical lecture using the program PowerPoint ،power point	Microbiology	Mycobacterium 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	Neisseriae 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
●	
●	

Pharmacology	.216
Course code : 317 PC	.217
Year : 2024-2023	.218

Date: 2024/5/5 .219

.220 Available attendance options: Attendance in the classroom for the theoretical course
.221 Total study hours (total)/(total units): (60 hours) theoretical/(4 study units)
.222 Name of the course coordinator (if more than one name is mentioned)
Lec. Dr. kasak K.Abid kassaq.kais@uruk.edu.iq

.223 course objectives	
• 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
.224 learning strategy	
• 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

.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

Distribution of grades from 100 players according to the student's choice, such as daily preparation, daily, oral, monthly, written exams, reports, etc
%15half the year
%25to spend time with (including daily and monthly exams, requirements, and practical activities)
%20final exam 40% final exam
12.Learning and teaching resources

1- Pharmacology (Lippincott Illustrated Reviews Series) 8th Edition (2023) 2- Contemporary Dental Pharmacology: Evidence-Based Considerations 1st ed (2019) 3- Basic & Clinical Pharmacology (sixteenth Edition,2024)	Main references (sources)
• Pharmacology and Therapeutics for Dentistry (7th edition, 2017)	Recommended supporting books and references (scientific journals, ...reports)
•	

Pharmacology	.225
Course code: PC317	.226
Year : 2024-2023	.227
Date: 2024/5/5	.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

• 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 l e a r n i n g s t r a t e g y	
• 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	Orodental 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	Orodental 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 (2023) 5- Contemporary Dental Pharmacology: Evidence-Based Considerations 1st ed (2019) 6- Basic & Clinical Pharmacology (sixteenth Edition,2024)	Main sources
• Pharmacology and Therapeutics for Dentistry (7th edition, 2017)	Textbooks
•	

Course name : community dentistry .234
Course code : *317CU* .235
Year : 2024-2023 .236
Date: 2024/5/2 .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	
• 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

		- 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	-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	Epidemiology - Objectives of epidemiology. - Components of epidemiological study. - Essential steps in an epidemiological study. - Hypothesis. - Population at risk. - Morbidity. - Measurements of disease frequency. Epidemiological approach. - Measurement tools in epidemiology.		1	3
Daily, monthly, semi-annual, and final exams Daily, monthly, semi-annual, and final exams Daily, monthly, semi-annual, and final exams	Theoretical Theoretical Theoretical	Epidemiological studies Types of Epidemiological studies: 1-Observational studies Types of observational studies - Descriptive studies. -Analytical studies. Case control studies Cohort studies Ecological studies.		1	4
		2-Experimental studies -Intervention Types of experimental studies		1	5
Daily, monthly, semi-annual, and final exams	Theoretical	Epidemiology of dental caries - Definition of dental caries - Epidemiology		1	6

		-Etiological factors of dental caries -Types of dental caries according to their anatomical (location) site. - Factors affecting epidemiology of dental caries			
		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	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
		Dental indices - Index - Uses of dental index - Classification of indices		1	9
Daily, monthly, semi-annual, and final exams	Theoretical	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
		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	Dental fluorosis -Indices for assessment of dental fluorosis		1	12
		Biostatistics - Data - Types of data		1	13

		- Methods of Data Collection -Sampling Technique -Types of sample design			
		Data presentation - 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 -Measures of central tendency -Measures of dispersion.		1	15
		Fluoridation as a public health measure - History: - Sources of Fluoride -Water fluoridation -Types of fluoride		1	16
Daily, monthly, semi-annual, and final exams	Theoretical	Fluoridation Mechanism and Effects Mechanism of action -Anti-caries effects of fluoride. -Metabolism of fluoride. -Dental Fluorosis -Side effects of fluoride		1	17
		Occupational hazards in dentistry - 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 - Environment -Physical environment:		1	19

		-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 operatory auxiliary. * Operatory 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

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 3rd 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,3rd Edition, 2016.	Required textbooks (methodology if available)
-Essential Dental Public Health 2nd ed by Blanad D, Paul B, Elizabith T, Richard W, 2013 -Essentials of preventive and community dentistry by Peter,2003 -Essential Dental Public Health 2nd ed by Blanad D, Paul B, Elizabith 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 name Course : conservative dentistry	
.244 code Course : 319CV	
.245 the chapter / Year : 2023-2024	
.246 mbers this Descriptiondate nu 2024/5/2	
.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 name responsible The decision Academic) if more From a male name(	
M.M. Wassan Mohammed Hassoun M.M. Amjad Majeed Khalafamjed.m.khalaf@uruk.edu.iq	
.250Goals The decision	
And It is done training Students on a job Fillings digging teeth Industrial On heads Ghostly especially To train them before Getting started By processing patients Clinically	Goals The material Academic
.251Strategies education and learning	
•an offer The material Theory And explain it on screen smart In detail •Use road excitement And the response •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 •g road thinking students and trackin methods Their expression And Their response speed	Strategy
.10 Structure The decision	

road Evaluation	road theoretical learning or practical	name Unity or the topic	Learni ng outco mes Required	watche s	week
Daily And exams 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		1	
		dentistry:			
		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 formulati on Informati on and program ming In a way maybe The student from Absorb and increase knowled ge 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 l And annua final	Theoretical lecture using the program PowerPoint power point				6
		Amalgam cavity preparations for class 1 (lower 2nd premolar, lower 1 st		1	
		premolar			
		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 exams And 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 exams And 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 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 monthly And 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 -i Sem 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 of100on 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%nalExam theoretical Fi	
12 sources learning and teaching	
• Contemporary fixed prosthdontics , • 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 name Course :

rays teeth/theoretical	
code Course:	.253
RL 320	
the chapter/ Year :	.254
2023-2024	
date numbers this Description	.255
2024/5/2	
Forms the audience Available:	.256
presence in The hall Academic	
number watches AcademicTotal / (Number) Units (total) : hours / 2 credit hours 30	.257
sion Academicname responsible The deci	.258
Fathallah A. Louay Nafehluaynkaka@uruk.edu.iq	
Goals The decision	.259
•Rehabilitation Doctors teeth trainers on the job on various Devices rays •How to Dealing with Risks Radiation • How to a description ,reading And diagnosis arious Types films raysv •education Students How to Dealing with patients And prepare them To enter Clinics in the next phase.	Goals The material Academic
Strategies education and learning	.260
•Lectures theory • Exams Daily And monthly) Oral And itorialed(exam half year addition to And the exam Final	Strategy

.10 Structure The decision					
road Evaluation	road Learning is theoretical or practical	Name of unit or topic	Required learning outcomes	watches	week
Exams Daily -Monthly, semi and final annual	theoretical	rays teeth	Physics of radiation (introduction and Definitions of nature of radiation, type of radiation	2	2 + 1

			Production of radiation (x-ray machine, interaction of x-ray with matter) composition of matter		
aily Exams D -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 -miMonthly, se annual and final	theoretical	rays teeth	Factors controlling x-ray beam (dosimetry and invers square low Projection geometry (sharpness, distortion, image characteristics and artifacts)	2	6 + 5
Exams Daily -Monthly, semi annual and final	eticaltheor	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 -hly, semiMont annual and final	theoretical	rays teeth	Radiographic anatomy part 1 (teeth , supporting structures, maxilla and mid facial bones) Radiographic anatomy part2 (mandible, TMJ, restorative materials)	2	10 + 9
Exams Daily -Monthly, semi l and finalannua	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	rays teeth	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,	2	+ 15 16
			evaluation of the image)		
	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 -hly, semiMont 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	heoreticalt	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		
Daily Exams -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	theoretical	rays teeth	Advanced imaging modalities (CT, MRI and ultrasound) Salivary gland disease (imaging modalities, interpretation)	2	+ 27 28
ly Exams Dai -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 of100on 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) s Daily And monthly and discussions and requirements The Includes Exam 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

ily Exams Da -Monthly, semi annual and final	theoretical	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	thrays tee	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 of100on 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 Exams Daily And monthly and ents The processdiscussions and requirem(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	iredbooks The reporter Requ Methodology that I found (
• Fundamentals of oral radiology	the reviewer HomeSources
• Journal: 1. Oral Surgery, Oral Medicine, Oral Pathology and Oral Radiology 2. Dentomaxillofacial Radiology	books References chock that Recommended (It contains) ientific sc journals, Reports(.....
• https://radiopaedia.org/	the reviewer electronic, Sites Internet

name Course: .261	
rays teeth/practical	
code Course: .262	
RL 320	
the chapter/ Year : .263	
2023-2024	
escriptiondate numbers this D .264	
2024/5/2	
Forms the audience Available: .265	
presence in The hall Academic Clinic rays	
number watches AcademicTotal / (Number) Units (total) : .266 hours / 2 credit hours 60	
name responsible The decision Academic .267	
Fathallah A. Louay Nafeh luaynkaka@uruk.edu.iq	
Goals The decision .268	
•Rehabilitation Doctors teeth trainers on the job on various Devices rays •And How to Dealing with Risks radiation 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 osingdiagn the jaws •education Students How to Dealing with patients And dealing with Some cases Private And prepare them To enter Clinics in stage Coming soon.	Goals The material Academic
Strategies education and learning .269	
discussions Weekly •training practical on Devices •requirements practical per student Includes number specific from Cases • Exams Weekly) Oral And editorial(quarterly To evaluate addition to exam Level practical For students, And the inal practicalexam F	Strategy

.10 Structure The decision					
road Evaluation	road learning theore tical Or practi cal	Name of unit or topic	Required learning outcomes	watche s	week
evaluation discussions Students+ evaluation practical+ Exams Weekly	sioDiscus ns+ training practical	rays teeth	X- ray machine and production of X-ray	2	1
evaluation discussions Students+ evaluation practical + Exams Weekly	Discussi ons+ training practical	rays teeth	X-ray film (types and indication)	2	2
evaluation scussions di 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 tsStuden+ 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 practical	rays teeth	Dental anomalies	2	8

evaluation discussions Students+ evaluation practical+ Exams Weekly	Discussi ons+ training racticalp	rays teeth	Dental panoramic radiography	2	9
evaluation discussions Students+ evaluation practical+ Exams Weekly	Discussi ons+ training practical	rays teeth	Common disease (caries, PDL and inflammatory diseases)	2	10
evaluation s discussion 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	training practical	8	25+24 27+26
exam practical Oral	practical	rays teeth	exam practical quarterly	4	29+28
exam practical Editorial	calpracti	rays teeth	exam practical ultimate	1	30

.11 rating The decision

distribution degree from100on 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.

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

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 (
• Fundamentals of oral radiology • Essentials of Dental Radiography and Radiology	the reviewer HomeSources
• Journal: 3. Oral Surgery, Oral Medicine, Oral Pathology and Oral Radiology 4. Dentomaxillofacial Radiology	books References chock that Recommended With it) Scientific journals , Reports(.....
• https://radiopaedia.org/	the reviewer electronic, Sites Internet

.270 name Course :diseases Public

.271 code Course : 321PA	
.272 the chapter / Year : 2023-2024	
.273 date numbers this Description 2024/5/2	
.274 Forms the audience Available :presence in The hall Academic erial TheoryFor the mat	
.275 number watches Academic Total / (Number) Units (total) : 60(credit hours 4) Theoretical hour	
.276 name responsible The decision Academic) if more From a male name(	
Dr. Ali Hussein Mohammed Ali	
.277als The decisionGo	
•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	rial Goals The mate Academic
.278Strategies education and learning	
Lectures Theory Discussions Scientific Seminars use screens (LCD) use means clarification like films rays And the Exams weekly Methods Evaluation video exam half year And the end year tion For seminars Evalua stomach from before Student Evaluation For the product practical Skills Public (Transferable) Other skills related to employability and development Personal.(	Strategy

He does Instructor By bringing some Clips Textile es For diseases Rare items that are not And dy available within the institution are explained and presented to the students for the purpose of keeping pace with the scientific process in area General diseases	

.10 Structure The decision					
road Evaluation	road theoretical learning or practical	Name of unit or topic	Required learning outcomes	watches	week
Daily and monthly exams And a half Annual And final and seminars	Theoretical lectures POWER POINT	science diseases	Introduction to pathology Clinical pathology molecular pathology	2	2-1
Daily and monthly exams And a half Annual And final and seminars	Theoretical lectures POWER POINT	science diseases	Cell damage reversible cell injury irreversible cell injury	4	4 + 3
Daily and monthly exams And a half Annual And final and seminars	Theoretical lectures POWER POINT	science diseases	Inflammation Acute Inflammation Chronic pathology Chemical mediators	4	6 + 5
Daily and monthly exams And a half Annual And final and arssemin	Theoretical lectures POWER POINT	science diseases	Healing and repair Healing of skin wound Healing of bone	4	8 + 7
Daily and monthly exams And a half Annual And final and seminars	Theoretical lectures POWER POINT	science easesdis	Deposits and pigmentation External and internal pigmentation	2	9

annual -semi exams Annual And final	Theoretical lectures POWER POINT	science diseases	bacterial infection and vira selective infectious diseases	4	+ 10 11
annual -semi exams Annual nd finalA	Theoretical lectures POWER POINT	science diseases	Immunopathologist gy Hypersensitivity Autoimmune diseases Transplantation	4	13- 12
annual -semi exams Annual And final	Theoretical lectures POWER POINT	science diseases	Disorders of cell growth and development	2	14
annual -semi exams Annual And final	Theoretical lectures POWER POINT	science diseases	Neoplasia bengin and malignant tumors molecular basis of tumors	6	+ 15 17- 16
annual -semi exams Annual And final	iTheoretical lectures POWER POINT	science diseases	Genetics	4	+ 18 19
annual -semi exams Annual And final	Theoretical lectures POWER POINT	science diseases	Disturbances in body fluids and blood flow	4	21-20
annual -semi exams Annual And final	Theoretical lectures POWER POINT	science diseases	Diseases of the cardiovascular system	3	22
annual -semi exams Annual And final	Theoretical lectures POWER POINT	science diseases	Diseases of respiratory system	2	23

annual -semi exams Annual And final	Theoretical lectures POWER POINT	science diseases	Diseases of respiratory system	4	+ 24 25

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

.11 rating The decision

Grade distribution of100on according to Tasks The person in y exams charge The student has it Like preparation Daily and dail 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%Exam theoretical Final

12 and teaching sources learning

• Robbins basic pathology Kumar, Abbas and Aster. 10th edition. 2018, Elsevier.	books The reporter Required Methodology If found (
	the reviewer HomeSources
•	books References chock that Recommended (It contains) scientific journals, Reports(.....

location The college electronic●	the reviewer electronic, Sites Internet

.279 name Course : blicdiseases Pu) practical(
.280 code Course : 321PA
.281 the chapter / Year : 2023-2024
.282 date numbers this Description 2024/5/2
.283 Forms the audience Available :presence in laboratory diseases Public
.284 number watches Academic Total / (Number) Units (total) : 60(units) (study My working hours (2
.285 name responsible The decision Academic) if more From a male name(
Dr. Ali Hussein Mohammed Ali M.M. Ali Makki Mohammedali.m.jaafar@uruk.edu.iq
.286Goals The decision

•**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**	terial Goals The ma Academic

.287Strategies education and learning

•Microscopic slide show Discussions of diseases Scientific And the seminars Use of screens(LCD) •use means clarification like films rays And the video •Methods Evaluation	Strategy

•uarterly and practical ultimate on exam q Slides microscopic	

.10 Structure The decision

road Evaluation	road Theoretical or practical learning	Name of unit or topic	Required learning outcomes	watches	week
exam My semester work	practical	science seasesdi	Introduction to pathology Clinical pathology Molecular pathology	4	2-1
exam My semester work	practical	science diseases	Cell damage reversible cell injury irreversible cell injury	4	4 + 3
exam My semester work	practical	science diseases	Inflammation Acute inflammation Chronic pathology Chemical mediators	4	6 + 5

exam My semester work	practical	science diseases	Healing and repair Healing of skin wound Healing of bone	4	8 + 7
exam My semester work	practical	science diseases	Deposits and pigmentation external and internal pigmentation	2	9
exam My semester work	practical	science diseases	Infection bacterial and vira selective infectious diseases	4	11 + 10

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

exam My semester work	practical	science diseases	Joints Muscle and CT diseases 2			30
2						

distribution degree from100on 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.

and exams Daily

15%half year
25% riving Annualst : Includes Training Summer) two degrees Added(Bonus Monthly 15 points(and practical requirements10 points) grades (
25%Exam practical
Final35%Exam theoretical Final

- Robbins basic pathology. Kumar, Abbas and Aster. 10th edition, 2018, Elsevier

12 sources learning and teaching books The reporter Required Methodology that I found (

the reviewer HomeSources

books References chock that Recommended With it

-) Scientific journals, Reports(.....

the reviewer electronic, Sites Internet location College electronic•

.279 name Course :Oral surgery
.280 code Course : 321PA

.281 the chapter / Year : 2023-2024
.282 date numbers this Description 2024/5/2
.283 Forms the audience Available :the hall presence In Oral surgery the lab (theoretical) and in
.284 number watches Academic Total / (Number) Units (total) : 31 and (credit hours 2) hour Theoretical 61(credit hours 2) hour Practical
.285 name responsible The decision Academic) if more From a male name(
Asst. Dr. Ali Ghalib ali.g.mutar@uruk.edu.iq
.286Goals The decision

oals The decision is to be made The student on high level from Scientific While Related With surgery mouth And recognition on Tools Surgical Private By his work in Surgery addition to all kinds Anesthesia acquisition knowledge Of topical and His methods and problems and Complications Associated Withit	Goals The material Academic
.287Strategies education and learning	
•Microscopic slide show Discussions of diseases Scientific And the seminars Use of screens(LCD) •use means clarification like films rays And the video •: Methods Evaluation exam quarterly and practical ultimate on Slides microscopic	Strategy

.11structure The decision					
road Evaluation	road education	name Unity /Or the subject	Theoretical content	watches	The week

Short exams, And the quarterly ,and year -Mid and final	Theoretical lecture using the program PowerPoint power point	surgery mouth	Diagnosis in oral surgery (exodontia)	2	1
Short exams, And the quarterly ,and year -Mid and final	Theoretical lecture using the program PowerPoint power point	surgery mouth	Extraction of teeth (exodontia)	2	3
Short exams, And the quarterly ,and ear y-Mid and final	Theoretical lecture using the program PowerPoint power point	surgery mouth	Contra indications of extraction (exodontia)	2	5
Short exams, And the quarterly ,and year -Mid and final	Theoretical lecture using the program PowerPoint power point	surgery mouth	General arrangement for extraction (exodontia)	1	7
Short exams, And the quarterly ,and year -Mid and final	Theoretical lecture using the program PowerPoint power point	surgery mouth	Dental forceps (exodontia)	2	8
Short exams, And the rterlyqua ,and year -Mid and final	Theoretical lecture using the program PowerPoint power point	surgery mouth	Elevators (exodontia)	2	11
Short exams, And the quarterly ,and	Theoretical lecture using the program PowerPoint	surgery mouth	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	surgery mouth	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	surgery mouth	Basic surgical instruments (exodontia)	3	17
Short exams,And the quarterly,and final year and-Mid	Theoretical lecture using the program PowerPoint power point	surgery mouth	Introduction to local anesthesia (local anesthesia)	1	21
Short exams, and quarterlyand year and final-Mid	Theoretical lecture using the program PowerPoint power point	surgery mouth	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	surgery mouth	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	surgery mouth	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

No.	Laboratory sessions & *Clinical requirements*	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 name Course :Dental industry
.280 code Course : PR310
.281 the chapter / Year : 2023-2024
.282 date numbers this Description 2024/5/2
.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 name responsible The decision Academic) if more From a male name(

M.M. Hadeel Ismail M.M. Hussein Alaa	
.286Goals The decision	
Providing the student with the necessary information to 1-A the special enable him to master all the steps of manufacturing -chrome cobalt partial denture related to the laboratory aspect. B Description of the tools -The skill objectives of the course B1 Teaching the student how to use -used to prepare all materials B2 them and following up with him during work	oals The material G Academic
.287Strategies education and learning	
LCD, lecture, show data, digital cameras, live explanation, and direct interaction by students with all types of materials mentioned ing them into within the curriculum set for the student after divid 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 'previous reviewers .clarification	Strategy
.288 name Course :y industry teeth For the stage Thirdlaborator	
.289 : code Course PR310	

.290 the chapter / Year : 2023-2024
.291 date numbers this Description 2024/5/2
.292 Forms the audience Available :presence in laboratory industry r the stage Thirdteeth Fo
.293 number watches Academic Total / (Number) Units (total) : 60 hour /lonliness Academic 4
.294 name responsible The decision Academic) if more from name It is mentioned that(
M.M. Hadeel Ismail einM.M. Alaa Huss

.295Goals The decision	
•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. •stage Third and training students on education students 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
.296education and learning Strategies	
•Perception Foundations Home For your information Compensation Artificial •Consolidation Concepts compensation teeth Animated •Preparing a class of capable dentists To provide the best the community health services and Educational For.	Strategy

.10 Structure The decision					
road Evaluation	road theoretical learning or practical	name Unity or the topic		watches	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
ual ann-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	alpractic	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
ual ann-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 exams Annual 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 exams Annual 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 ms Annual exa 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

Grade distribution of100on 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(25%Exam practical Final
35%Exam theoretical Final

12 ning and teachingsources lear

• McCracken's Removable Partial Prosthodontics13th Edition - November 3, 2015. • Robert, W. L. (2018) Removable Partial Denture Manual. Dalhousie University.	books The reporter Required(methodology if any)
REMOVABLE Partial Denture *Laboratory Handbook for Third Year Students*	the reviewer Home) Resources(
• THE Journal OF PROSTHETIC DENTISTRY	books References chock that Recommended With it) Scientific journals , Reports (.....
•	the reviewer electronic, websites

2024-Phase Four 2023

.297 name Course :General medicine

.298code The decision GM423:

.299 the chapter / Year : 2023-2024

.300 date numbers this Description 2024/5/2
.301 Forms the audience Available :presence in The hall Theory Academic For the material
.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 and Ways Diagnose it and Treat it and Her octor relationship In his specialty Flour As a d 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 resources such as microscopes videos educational To enhance learning	Strategy

.11he decisionstructure T

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	Theoretical 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	Theoretical 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	Theoretical lecture using the program PowerPoint power point	General Medicine	White Blood Cells Disorders 1	1	3
Short exams, and Quarterly, and Half of the year and Final	Theoretical 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	Theoretical lecture using the program PowerPoint power point	General Medicine	Hemostasis and Bleeding Disorders 1	1	5
Short exams, and Quarterly,and Half of the year and nalFi	Theoretical lecture using the program PowerPoint power point	General Medicine	Hemostasis and Bleeding Disorders 2	1	6

Short exams, and	a lecture theory Using the program	General Medicine	Adrenal Gland Disorders 1	1	7
Quarterly,and Half of r the yea 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 inalF	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 Quarterly,and Half of the year and Final	Theoretical lecture using the program PowerPoint power point	General Medicine	Intestine	1	12
Short exams, and Quarterly,and Half of the year and Final	Theoretical lecture using the program PowerPoint power point	General Medicine	Inflammatory Bowel Disease 1	1	13
Short exams, and Quarterly,and Half of the year and Final	Theoretical 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	١	٢٣
General Medicine	Liver Diseases	١	٢٤
General Medicine	Pulmonary Diseases	١	٢٥
General Medicine	Red Blood Cells Disorders	١	٢٦
General Medicine	Drug and Alcohol Abuse	١	٢٧
General Medicine	Psychiatric Disorders	١	٢٨
General Medicine	Anxiety and Eating Disorders	١	٢٩

.297 course name : general surgery
.298 course code : 424GS
.299 Year : 2024-2023

.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	Metabolic response to injury BASIC CONCEPTS IN HOMEOSTASIS MEDIATORS OF THE METABOLIC RESPONSE TO INJURY Physiological response to injury ((THE 'EBB AND FLOW' MODEL)) Insulin resistance AVOIDABLE FACTORS THAT COMPOUND THE RESPONSE TO INJURY Systemic inflammation and tissue response	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

.297	course name :oral surgery
.298	course code : 322OS
.299	Year: 2024-2023
.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 7th edition 2007.	١. الكتب المقررة المطلوبة

.11 course structure

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	
- **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
2023-2024	Date .7
.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. .	

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 short exams, the midterms, and Midterm and final	the program PowerPoint power point Theoretical lecture using 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
The students are required to complete the following restorations:- a. Amalgam Restorations Class I 6 cases, Class II 4 cases. b. Composite (tooth colored) Restorations Class III 2, Class IV 2 ,and Class V 2 cases These requirements are the absolute minimum needed in order to take the final examination.	2.5h/wk
	75h/year

Clinical requirements (Preclinical Endodontic)

Lab number	Study unit title	Hours

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

.297l course name : oral pathology
.298 course code : 425OP
.299 Year : 2024-2023

.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

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 Objectives: • 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:	Strategy
• 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.	

.10 Structure The decision

road Evaluation	road theoretical learning or practical	name Unity or the topic	Learning outcomes Required	watches	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					

Grade distribution of100on 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	
• Oral and Maxillofacial Pathology by Brad Neville et al., 4th Edition.	books The reporter Required(methodology if any)
	the reviewer Home) Resources(
• 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 squestrum	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 odontogentic 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 : 2023-2024

.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 HamidDr.hanadi.majeed@uruk.edu.iq M. M. Anoush Aram Hayek	
.313cisionGoals The de	
•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 alocclusion casesm .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
.314ngStrategies education and learni	
•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	Learning outcomes equireRd	watches	week

annual -semi exams Annual And final		Introduction Definition of orthodontics		1	1

		Definition of occlusion, normal occlusion, ideal occlusionand malocclusion Six keys of normal occlusion			
annual -semi exams Annual inalAnd f		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 (cartiligeneous, 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		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 d. Late mixed dentition stage - eruption of canines and premolars (Leeway space and late mesial shift		1	12
		e.Permanent dentition - eruption second and third molars (mesial migration)			
annual -emis exams Annual And final		<u>Etiology of malocclusion:</u> Genetic factors and inherited factors Classification of etiological factors a. General factors i. Skeletal (dental base and cranial base, variation of position and size of the jaws)		1	13
annual -semi exams Annual And final		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) iii. Tooth size and arch length relationship (Crowding and spacing) including types		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 xams Annual e 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> <u>a. Overview:</u> 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 vi. Post-insertion instructions and guidelines		1	26
		c. Fixed orthodontic appliance: 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
		d. Orthopedic and Myofunctional appliance:		1	29
		- Types, components, advantages, limitation, mode of action e. Other active Appliances: combination appliances, Invisalign			
		f. Retention and retainers - Retention (definition, reason, time) Retainers (Hawley, clear overlay, positioners, permanent fixation, precision)		1	30
Grade distribution of100on 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					

• -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	erences books Ref 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 1st Molar	5
19	Adams' Clasps on Upper Left 1st Molar	5
20	Adams' Clasps on Upper Right 1st Premolar	5
21	Double Adams' Clasps on Upper Right 2nd premolar &1st 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 erthe chapt / Year : 2023-2024	
.311 number watches Academic Total / (Number) Units (total) : 30hour theoretical	
.312 name responsible The decision Academic) if more From a male name(	
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 d permanent teeth and the problems related to primary an .them	Goals The material Academic

Pediatric Dentistry Damle 3rd ed. 2009	books The reporter Required(methodology if any)
Text book of pediatric dentistry Nikhil Marwa 2nd ed. 2009 New Delhi Hand book of pediatric dentistry (Cameron) mosby Elsevier/4th edition/2013 Pediatric Dentistry A clinical approach/ View 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 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	books References chock that Recommended With it) Scientific journals , Reports (.....

name The decision illnesses gums theoretical	.١
code The decisionPER06401	.٢
the chapter/ year 2023-2024	.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 tical andhour theore 90hour practical	
.7 name responsible The decision Academic (if more from name mentioned))	
أ. Moalla-Kazem Jawad Alkadhumjawad@uruk.edu.iq	

Lectures , internship , field studies) Trying to spread awareness among school students through field visits and educational lecturing -summer training	
• www.ajodo.org , PubMed	the reviewer electronic, websites

٨. اهداف المقرر

For the branch he more knowledge In the goal Main 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 those who They will do it With this The role After their graduation And serve them in Centers Health widespread in General Iraq.

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

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 rmation 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 partsteelfrom 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 ion on classifica 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	nd Give a seco 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

		- 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 o *Mechanisms of pathogenicity*	How to emergence llness gums hronic And its evelopment and related reason Vith 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	xpansion nowledge on ypes igmentation teeth nd its various causes	1	13
Exams short, and Quarterly ,d halfan year and Final	Theoretical lecture using the program PowerPoint PowerPoint	Etiology of periodontal disease - Risk factors for periodontal diseases: o *Definitions of risk factors*	isk factors individuals And its relationship With diseases gums	1	14
ams shortEx, and Quarterly ,and half year and Final	Theoretical lecture using the program PowerPoint PowerPoint	Impact of periodontal infection on systemic health - Focal infection theory revisited - Subgingival environment as a reservoir for bacteria)	ansion 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 ndicators 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

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 nformation about ket gingival the po And the reason Its ɔccurrence 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 o 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	h in How expansio 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 ncentivize 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 of100in 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

model a description The decision practical

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

.317 the chapter / Year : 2023-2024
.318 date numbers this Description 2024/5/2
.319 Forms the audience Available :presence students in Clinics
.320 number watches Academic Total / (INumber) Units (tota) : 90 units 3) hour Practical) (
.321 name responsible The decision Academic) if more From a male name(
Moalla-Mr. Kadhumjawad Alkadhumjawad@uruk.edu.iq Bahadli-Al 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
.322Goals The decision

• - 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 dThe require**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 s t r a t e g y .323 resharpen it **Clinical:** Lectures using powerpoint ical registration the date Med educational movies- • And medicine teeth- - LCD • 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 examinations**30 weeks

.11 decision rating The

distribution degree from45on 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% riving annualst) Includes Training Summer and exams Daily And monthly and requirements The process(20%Exam practical Final

12 sources learning and teaching	
• 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 : 2023-2024	.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 / 60lonliness 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

•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	
•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	Required learning outcomes	watches	week

annual -semi exams Annual And final	theoretical	osteology		1	1
annual -semi exams Annual nd finalA	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

Grade distribution of100on 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.

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 g and teachingsources learnin

1.Prosthodontic treatment for edentulous patient 2.McCracken removable partial	books The reporter Required(methodology if any)

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 (.....
•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 : 2023-2024

.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 Wafiya around Methods performance Patient examination Diagnosis Cases different, ıpplication understanding And knowledge Clinical ı effective To In treatment until He is doctor teet serve the society.in this The course Training is ınderway. 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 nedicine teeth under supervision Specialized ɔrofessors And it is done also training students on Recognition And dealing with Tools used in nedicine teeth Restorative, And provide them With Wafiya For principles Basic To work -knowledge Al ies teeth And fill it With fillings Mineral and cavi ɔptical Different And education students steps ɔractical Fillings tooth roots And it is done Their raining on Operations to prepare crowns And Jasoo teeth constant And replace ıg 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

- 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

Evaluation method	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	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	ethto 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 lf 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

.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

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

model a description The decision

.351 name Course :medicine mouth
.352 code Course : 5290M
.353 the chapter / Year : 2023-2024

.354 ndate numbers this Descriptio 2024/5/2
.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

•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	
•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		watches	week
Daily and monthly exams And a half alAnnual And fin	theoretical	principles Diagnosis oral And tests Clinical		2	2 + 1
Daily and monthly exams And a half Annual And final	theoretical	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 of100n 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	
• 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 name Course :medicine mouth
.361 code Course : 5290M
.362 the chapter / Year : 2023-2024
.363 date numbers this Description 2024/5/2
.364 Forms the audience Available :presence in Clinics Clinical
.365 number watches Academic Total / (Number) Units (total) : 30 hour / 60lonliness Academic s (3 credit hours)practical hour 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

•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	
•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		watches	week
Daily and monthly exams And a half And final Annual	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 illnesse 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 of100on 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

• 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 itMagazines scientific, Reports (.....
•	the reviewer electronic, websites

model a description The decision

.369 name Course : Oral surgery

.370 code Course : OS 522

.371 the chapter / Year : 2023-2024
.372 date numbers this Description 2024/5/2
.373 Forms the audience Available :presence in The hall Academic For the material Theory
.374 number watches Academic Total / (Number) Units (total) : 30 hour / 60lonliness Academic practical hours (6 study units) 150
.375name responsible The decision Academic
م. Sundus Abbassundus abbas@uruk.edu.iq Majeed Asst. Dr. Mohammed SaeedMohammed_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 s Surgicalsurgery mouth And recognition on Tool 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

.369 name Course :medicine teeth children

.370 code Course : medicine teeth children *529PE /*

.371 the chapter / Year : 2023-2024

.372 date numbers this Description 2024/5/2

.373 Forms the audience Available :presence in The hall Academic For the material Theory

.374 number watches Academic Total / (Number) Units (total) : 30 hour / 60lonliness Academic
37.5 My work hour is 1.25/ unit

.375name responsible The decision Academic

أ. Dahan-Ridha Al-Zainab Abdulzainab.aldahan@uruk.edu.iq

.376Goals The decision

•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 know How to to By means Clarification To 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 diagnosis and treatment of various 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

• theoretical Using throw Lectures 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	Outpu ts Learning required	watche s	week
and Daily 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 nnual And a half A 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	ticaltheore	**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
ly and Dai 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 onthly exams m 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 lessons of genetic origin, ascorbic acid deficiency gingivitis**		1	18
Daily and ms monthly exa 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
nd Daily a 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	eoreticalth	**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
aily and D 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 ual And a half Ann 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 exams monthly 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 of100on 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

- **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**

books The reporter Required(methodology if any)

• **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 chock that Recommended With it) Scientific journals , Reports (.....
• www.ajodo.org , PubMed	iewer the rev 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: 2023-2024	.380
Date: 2024/5/2	.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					
Evaluation method	Learning method	Topics		Hours	aweek
Daily exams And monthly, semi-annual, and final	Theoretical	Preventive dentistry (introduction) • 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 monthly, semi-annual, and final	Theoretical	Dental Caries Development • Etiology of dental caries • Inorganic and organic components of tooth • Terminology of dental caries • Dynamics Process of De-/Remineralization • The development of a carious lesion • Root caries • Clinical appearance of root caries • Classification of root caries		1	2
Daily examsAnd monthly, semi-annual, and final	Theoretical	Diagnosis of dental caries • Detection systems of caries • visual and tactile examinations • Radiographic techniques • Electrical current measurement (electronic resistant method) • Fiber Optic Transillumination (FOTI and DiFOTI) (Enhanced visual techniques) • Fluorescent techniques • Other techniques like Dyes, Ultrasound techniques, Photo-thermal Radiometry (PTR).		1	3
Daily examsAnd monthly, semi-annual, and final	Theoretical	Fluoride in Dentistry • Fluoride and Dental Caries. • Fluoride in Environment. • Fluoride Metabolism: • Absorption of fluoride • Distribution of Fluoride in the Body. • Fluoride Excretion		1	4

Daily examsAnd monthly, semi-annual, and final	Theoretical	Systemic fluoridation (history) • Dental fluorosis. • Clinical Appearance and classification of dental fluorosis. • Pathogenesis of dental fluorosis. • Treatment of Dental Fluorosis. • Incipient Caries and Fluorosis Diagnosis		1	5

		• Dental fluorosis and bone fluorosis			
Daily examsAnd monthly, semi-annual, and final	Theoretical	Communal water fluoridation • Communal water Artificial Fluoridation • Artificial water fluoridation level • Advantages and disadvantage of water fluoridation • Systemic effect of fluoride • Fluoride compound used in water fluoridation • Medical aspect of Water Fluoridation School Water Fluoridation		1	6
Daily examsAnd monthly, semi-annual, and final	Theoretical	Fluoride supplements • Fluoride Supplements. • Instruction to use fluoride supplement (tablet, lozenges or drop) • Fluoridated salt • Fluoridated milk		1	7
Daily examsAnd monthly, semi-annual, and final	Theoretical	Topical fluoridation • Advantages & Disadvantages of topical fluoride. • Mechanisms of Fluoride Action. • Fluoride's effect on tooth mineral • Inhibition of Bacterial Enzyme System. • Classification of Topical Fluoride. • Fluoride Compounds.		1	8
Daily examsAnd monthly, semi-annual, and final	Theoretical	Self-applied fluoride • 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 examsAnd monthly, semi-annual, and final	Theoretical	Professionally applied fluoride • 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	Toxicity of fluoride • Fluoride toxicity:definition • Sources of excess systemic fluoride • Acute toxicity ▪ General factors affecting acute toxicity		1	11

and final					

	Theoretical	▪ Clinical signs, diagnosis ▪ Emergency treatment • Chronic Fluoride Exposure (toxicity) ▪ Non-dental clinical signs ▪ Medical management of chronic fluoride toxicity • Home Security of Fluoride Products Recommendations to avoid toxicity			
Daily exams And monthly, semi-annual, and final	Theoretical	Microbiology of caries • 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 examsAnd monthly, semi-annual, and final	Theoretical	Cariogenic potential of bacteria • Virulence of microorganisms • Major dental caries-associated bacteria • *Mutans streptococci* • *Lactobacilli* • *Actinomyces* • *Veillonella* • Other caries-associated bacteria		1	13
Daily examsAnd monthly, semi-annual, and final	Theoretical	Dental sealants • definition • History • indication and contraindication • sealant in adult • Ideal sealants materials • Requisites for Sealant Retention • Sealant Placement Guidelines • Fluoride-Releasing Sealants • Glass ionomer sealants • Colored Versus Clear Sealant ***s*** • Sealants for proximal enamel surfaces		1	14

Daily exams And monthly, semi-annual, and final	Theoretical	New approach in restorative dentistry • Minimally Invasive Treatment Technique • Minimally Invasive Cavity Preparation • Non-machinery Preparation • LASER • Chemo mechanical Caries Removal		1	15

		• Preventive Resin Restorations • Remineralization Treatment			
Daily examsAnd monthly, semi-annual, and final	Theoretical	Diet and dental caries • Role of carbohydrates in Caries Development • Evidences • Factors affecting food cariogenicity • Physical form of food and clearance time • Types of fermentable carbohydrate • The basic Stephan curve • Frequency of intake sugar and dental caries		1	16
Daily examsAnd monthly, semi-annual, and final	Theoretical	Non- sugar sweeteners • The sweetness of sugars • Non- sugar sweeteners • Bulk sweeteners • Intense sweeteners • Protective factors in food • Fruit and dental caries • Testing food cariogenicity		1	17
Daily examsAnd monthly, semi-annual, and final	Theoretical	Dietary counseling in dental practice • Nutritional status assessment • Body Mass Index • Assessment of dietary intake • Objectives of dietary assessment • 24-hour recall • Dietary record • Food frequency questionnaires • Evaluation of cariogenic potential • Evaluation of nutritional value • Dietary counseling • Approach to counseling • Motivation		1	18
Daily examsAnd monthly, semi-annual, and final	Theoretical	Nutrition and oral health • Nutrition dental caries • Systemic effect • Morphology of the teeth • The quality of the hard tissues • Quality of saliva • Evidences of the effect of some nutrients on dental caries • Nutrition and eruption of teeth		1	19
Daily exams And monthly, semi-annual, and final	Theoretical	Nutrition, diet & periodontal disease • Nutrition and periodontal health • The mechanisms by which nutrition may affect periodontal disease • Effect of food texture on periodontal health • Nutrition and oral mucosal disease		1	20

		• Nutrition and oral cancer • Primary prevention • Secondary prevention			
Daily examsAnd monthly, semi-annual, and final	Theoretical	Saliva and dental caries • Oral fluid • Function of saliva • Composition of saliva • Factors influencing salvary composition • Salivary flow rate • Factors influencing salvary flow rate • Influence of saliva on dental caries		1	21
Daily examsAnd monthly, semi-annual, and final	Theoretical	Oral immune system • Immunity • Non-specific immune factors • Specific immune factors • Immunization of dental caries • Vaccination		1	22
Daily exams And monthly, semi-annual, and final	Theoretical	Oral hygiene measures (Mechanical) • Acquired pellicle • Dental plaque • Dental calculus • Mechanical plaque control aids • Toothbrushes • Tooth brushing methods • Powered toothbrush • Objectives of toothbrushing • Interdental Cleaning aids		1	23
Daily examsAnd monthly, semi-annual, and final	Theoretical	Oral hygiene measures (Chemical) • 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 examsAnd monthly, semi-annual, and final	Theoretical	Identification of high risk group of dental caries • Steps for diagnosis of high risk group • Goals of caries risk assessment • Caries identification • Caries risk factors • Caries protective factors • Caries susceptibility		1	25

		• Caries activity • Caries risk • Factors in caries risk assessment • Caries risk in children Management in children			
Daily exams And monthly, semi-annual, and final		Dental health of disabled and medically compromised patients • 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 Dental care for Institutionalized disabled individuals		1	26
Daily examsAnd monthly, semi-annual, and final		Geriatric dentistry • Aging • Geriatric dentistry • Prevent elderly segment of population • The major results of aging process • Changes of tooth structure • Root caries		1	27
Daily examsAnd monthly, semi-annual, and final		Health education and motivation • 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		Uses of LASER in dentistry • 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

		• Erbium lasers • Benefits of dental lasers • Drawbacks of dental lasers • Laser Safety • Laser Safety Officer (LSO) duties			
Daily exams And monthly, semi-annual, and final		Prevention of peri-implant disease • Dental implant parts • Dental implant and biofilm • Implant Maintenance • Professional care in dental clinic • Home care		1	30
Evaluation method	**Learning method**	**Practical-topics**		**Hours**	Week
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			

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

• Primary Preventive Dentistry by Harris NO Garcia-GodoyF-NatheCN 8th Ed. (20014) • Comprehensive preventive dentistry (2012) Edited by Hardy Limeback	Textbooks
• 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

• 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 Thylstryp 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	
• • 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 : 2023-2024	
.390 date numbers this Description 2024/5/2	
.391 Forms the audience Available :presence in The hall Academic For the material Theory	
.392 number watches Academic Total / (ber) Units (totalNum) : 30 hour / 60lonliness Academic	
.393) if more	
Assist. Prof. Salah Abid Allah	
.394Goals The decision	
•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	
•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		watches	week
Daily and monthly exams alf And a h Annual And final	theoretical	Occlusion in complete denture		2	2 + 1
Daily and monthly exams And a half Annual And final	theoretical	Retention, stability and support		2	4 + 3
Daily and monthly exams And a half Annual And final	theoretical	Complications of complete denture		2	6 + 5
Daily and monthly exams And a half Annual And final	theoretical	Post insertion problems		2	8 + 7
Daily and monthly exams And a half Annual And final	theoretical	Immediate denture		2	10 + 9
Daily and hly exams mont And a half Annual And final	theoretical	Classification system for completely edentulous patients		2	+ 11 12
Daily and monthly exams And a half Annual And final	theoretical	Posterior palatal seal area		1	13
Daily and monthly exams lf And a ha Annual And final	theoretical	Single complete denture		1	14
Daily and monthly exams And a half Annual And final	theoretical	Geriatric dentistry		2	+ 15 16
Daily and monthly exams And a half Annual And final	theoretical	Maxillofacial Prostheses		2	+ 17 18
Daily and monthly exams And a half Annual And final	theoretical	Residual Ridge resorption		1	19
Daily and monthly exams And a half Annual And final	theoretical	Dental implantology		3	+ 20 + 21 22
Daily and monthly exams And a half Annual And final	theoretical	Characteristics of ideal materials for dental implant		1	23

Daily and monthly exams And a half Annual And final	theoretical	Esthetics in complete denture		2	+ 24 25
Daily and monthly exams And a half lAnnual And fina	theoretical	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 from100on 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

• PROSTHODONTIC TREATMENT FOR EDENTULOUS PATIENTS : COMPLETE DENTURES AND IMPLANT-SUPPORTED PROSTHESES • Textbook of Complete Denture PROSTHODONTICS • Essentials of Prosthodontics	books The reporter Required MethodologyIf found(
Textbooks + internet sources	the reviewer Home Sources
• Application of the Neutral Zone in Prosthodontics • Complete Dentures from Planning to Problem Solving	books References chock which is recommended With it Magazines ,scientific Reports(.....

• 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.jst.go.jp/article/josnusd/55/1/55_29/_article)	the reviewer electronic, Sites Internet

• 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)	

.396name The decision
practical Dental industry
.397sioncode The deci
510PR
.398 the chapter /year
Two chapters Students/ stage Fifth
.399date numbers this Description
2023-2024
.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(
Abdel Rahman Prof. Hanan 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 name Course :calendar teeth For the stage Fifth	
.405 code Course : calendar Teeth 526OD /	
.406 the chapter / Year : 2023-2024	
.407 numbers this Description date 2024/5/2	
.408 Forms the audience Available :presence in The hall Academic For the material Theory	
.409 number watches Academic Total / (Number) Units (total) : 30 hour / 60lonliness Academic study units practical hours / 3 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	
•Gain knowledge about methods of diagnosing and treating malnutrition cases. Dishes •Goals Skills Private According to the decision: .1Diagnosis And treatment Cases ill dishes .2knowledge Types Devices Calendar Related With all condition. •emotional and the value Goals .1solution problems Related Badly dishes Using Devices animated calendar and functional	Goals The material Academic
.412Strategies education and learning	

• Lectures Using show program) (data point Power •o correct jaw and teethClinics Training T •Seminars	Strategy

.10 Structure The decision					
road Evaluation	road theoretical learning or practical	name Unity or the topic	Required learning outcomes	watches	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

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 of100he 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)

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:** 2023-2024
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:**

Dr. Mohamed Ali Hassan Mahdi Al-Bahadli
Email: muhammed.a.hasan@uruk.edu.iq

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: 2023-2024

.425 Date : 2024/5/2
.426 Forms the audience Available :presence students in Clinics
.427 number watches Academic Total / (Number) Units (total) : 90 hour Practical / credit hours 3
.428 name responsible The decision Academic) if more From a male name(
Moalla-Kazem Jawad Al Akadhumjawad@uruk.edu.iq Bahadli-Al 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

• - 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

• 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

.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 inflammation 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 Diagnos ,is The steps includ :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 indicators Gum diseases . evaluation gums In a way periodic To determine level health Gingival	3	4

Lecture Using Power Point	Daily, monthly, quarterly, semi-annual, and final exams using PowerPoint	**Ultra sonic scaling**	to learn Techniques Cleaning By waves above audio To remove sediments Gingival And its application Professionally To improve	3	4

			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 rapeutic The 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 ical cases pract To confront Challenges treatment Gums application Acquired skills in Diagnosis And the treatment is on Patients under Supervision of specialists	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

• 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

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 (

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