

**Ministry education High And search Scientific
Scientific Supervision and Evaluation Authority
Department of Quality Assurance and
Academic Accreditation
Accreditation Department**



Academic program and course description guide

2026

the introduction :

The educational program is considered a coordinated and organized package of academic courses that includes procedures and experiences organized in the form of which is to build and refine the skills of academic vocabulary, the main purpose of graduates, making them qualified to meet the requirements of the labor market. It is reviewed and evaluated annually through internal or external audit procedures . and programs such as the external examiner pro gram

The description of the academic program provides a brief summary of the main features of the program and its courses, indicating the skills that students are working to acquire based on the objectives of the academic program. The importance of this d escription is evident because it represents the cornerstone of obtaining program accreditation, and the teaching staff participates in writing it . under the supervision of the scientific committees in the scientific departments This guide, in its secon d edition, includes a description of the academic program after updating the vocabulary and paragraphs of the previous guide in light of the latest developments in the educational system in Iraq, which included a description traditional form (annual, quarterly), in addition to of the academic program in its adopting the description of the academic program circulated according to the book of the Department of Studies, T.M.3 /3. 2906 on 5/3/2023 regarding programs that . their work adopt the Bologna Process as a basis for

In this area, we can only emphasize the importance of writing descriptions of academic programs and courses to ensure the smooth conduct of the educational process.

Concepts and terminology :

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

Course Description: Provides a necessary summary of the most important characteristics of the course and the learning outcomes that the student is expected to achieve, demonstrating whether he or she has made the most of the available learning opportunities. It is derived from the program description.

Program Vision: An ambitious picture for the future of the academic program to be a developed, inspiring, motivating, realistic and applicable program.

The program's mission: It briefly explains the goals and activities necessary to achieve them, and also defines the program's development paths and directions.

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

Curriculum structure: All courses/study subjects included in the academic program according to the approved learning system (semester, annual, Bologna track), whether it is a requirement (ministry, university, college, or scientific department), along with the number of study units.

Learning outcomes: A consistent set of knowledge, skills, and values that the student has acquired after the successful completion of the academic program. The learning outcomes for each course must be determined in a way that achieves the program objectives.

Teaching and learning strategies: They are the strategies used by the faculty member to develop the student's teaching and learning, and they are plans that are followed to reach the learning goals. That is, it describes all curricular and extracurricular activities to achieve the learning outcomes of the program

form Academic program description

University name: Iraqi University

College /Institute: College of Dentistry

scientific department :

Bachelor of :Name of the academic or professional program Oral and Dental
Medicine and Surgery

Name of final degree: Bachelor of Dentistry

Academic system: annual

Description preparation date: 2025/2026

File:filling date : 2026/3/12

The signature:

Name of scientific assistant:

The date: 2026/3/12

Amaal Ibraheem Mohammed

Check the file from

Quality Assurance and Performance Improvement Division

Name of the Quality Assurance and Performance Improvement Division

the date 12/3/2026

the signature

Authentication of the Dean

12/3/2026

1. See the program

Preparing a generation of competent and distinguished dentists in educational, research and societal performance, keeping pace with the various fields of dentistry and providing therapeutic services to times in . various segments of society

2. Program message

The college seeks to build and graduate scientifically qualified, ethically committed dentists with a high level of competence in various dental level treatment services that are -specialties, enabling them to provide high comparable to the services provided in the finest specialized centers in dentistry and apply the highest quality standards used in sterilization and fumigation. Clinics, especially in light of the multiplicity and diversity of infectious diseases, including the current Corona pandemic, in order to meet the needs of the labor market and community service

3. Program Goals

- Graduating distinguished, highly qualified dentists e of practicing the .
- Work to build an integrated personality for the student capable of serving the nation, society, and profession .
- Providing distinguished medical services to patients and the community in various dental specialties to achieve their satisfaction .
- Developing the educational process to meet various challenges and learning and -adopting modern technologies in education, such as e blended learning, in addition to continuing medical education .
- college and supporting it to find Developing scientific research in the appropriate solutions to oral and dental health problems .
- Working to spread health awareness and prevention methods necessary to maintain oral and dental health

4. Program accreditation

Does the program have program accreditation? From which side ?

5. Other external influences
Is there a sponsor for the program ?

6. Program structure

Program structure	Number of courses	Study unit	percentage	* comments
Enterprise requirements	6	12	5.5%	Shared (ministry) – core
College requirements	41	206	94.5%	Specialty – core
Department requirements	—	—	—	—
summer training	—	—	—	—
Other	—	—	—	—
Total	47	218	100%	

7. Program description

Year / level	Course code	Name of the course	Credit hours	
			theoretical	practical
The first	MePh101	Medical Physics	60	60
The first	MeCh102	Medical Chemistry	60	60
The first	Biol103	Biology	60	60
The first	DeAn104	Dental Anatomy	60	60
The first	GeAn105	General Anatomy	30	60
The first	MeTe106	Medical Terminology	15	-
The first	Comp107	Computer	30	-
The first	ArLa108	Arabic Language	30	-
The first	HuRi109	Human Rights	30	-
The second	Pros201	Prosthodontics	30	120
The second	GeHi202	General Histology	60	60
The second	GePh203	General Physiology	60	60
The second	GeAn204	General Anatomy	30	60
The second	BiCh205	Biochemistry	60	60
The second	DeMa206	Dental Materials	30	60
The second	OrHi207	Oral Histology and Embryology	60	60
The second	Comp208	Computer	30	-
The second	ArLa209	Arabic Language	30	-
The second	BaCr210	Baath Crimes	30	-
The third	POpD301	Preclinical Operative Dentistry	30	60
The third	PFPPr302	Preclinical Fixed Prosthodontics	30	60
The third	Phar303	Pharmacology	60	60
The third	Micr304	Microbiology	60	60
The third	GePa305	General Pathology	60	60
The third	Pros306	Prosthodontics	30	60
The third	OrSu307	Oral Surgery	30	60
The third	DeRa308	Dental Radiology	30	60
The third	CoDe309	Community Dentistry	30	60
The third	DeEt310	Dental Ethics	30	-
The fourth	OEDE401	Operative and Esthetic Dentistry & Endodontics	30	180
The fourth	OrPa402	Oral Pathology	60	60

Year / level	Course code	Name of the course	Credit hours	
			theoretical	practical
The fourth	OrSu403	Oral Surgery	30	120
The fourth	Peri404	Periodontics	30	90
The fourth	Orth405	Orthodontics	30	120
The fourth	Pros406	Prosthodontics	30	90
The fourth	GeMe407	General Medicine	30	-
The fourth	GeSu408	General Surgery	30	-
The fourth	PeDe409	Pediatric Dentistry	30	60
The fifth	EnCB501	Endodontic / Crown & Bridge	30	180
The fifth	Pros502	Prosthodontics	30	180
The fifth	OrSu503	Oral Surgery	30	120
The fifth	Peri504	Periodontology	30	120
The fifth	Pedo505	Pedodontics	30	90
The fifth	Orth506	Orthodontics	30	90
The fifth	PrDe507	Preventive Dentistry	30	90
The fifth	OrMe508	Oral Medicine	30	60
The fifth	Rese509	Research	60	-

8.Expected learning outcomes of the programme

Knowledge

Learning outcomes 1

- 1.Realizing the importance of biomedical sciences, which form the basis for understanding human growth, development and health .
- 2.Understand the concepts of oral biology, including knowledge of the form and function of teeth and associated structures in health and disease
- 3.Understanding the causes, pathophysiology, diagnosis, prevention and treatment of oral diseases and providing the student with complete knowledge that enables him to prepare an integrated treatment plan for

	4. Knowledge of recent developments in the field of biomedicine and their impact on the practice of dentistry and its developments in medical materials and devices . 5. and basic , Comprehensive knowledge of care and management advanced skills, and applicatio n of behavioral science and . in clinical dentistry communication skills 6.. in the dental ethical principles Understanding the medical, legal, and profession .
Skills	
Learning outcomes 2	1. and dealing with patients among gradu ates ethics Enhancing professional 2. critical thinking and Students acquire the skills of problem solving 3. Promoting continuous and focused attention to the principle of lifelong . developing the profession continue learning in order to 4. collect, analyze Graduates must demonstrate a high level of ability to and integrate theoretical information in order to provide appropriate oral health care procedures .
Value	
Learning outcomes 3	1. Theoretical tests . - exams No oral 2. Laboratory process tests . - Mannequin practical tests 3. Practical tes ts on patients . 4. Reports and studies . s performance in the 'Evaluating the student their ability to apply the and graduation project in the final year required knowledge and evaluate the results of the project .

5. Teaching and learning strategies

1. Givin g lectures
2. Educational films
3. Use of projectors and digital cameras
4. Conducting training courses and workshops
5. Electronic classes
6. Applied and clinical education
7. Student team work

6. Evaluation methods

1. Theoretical tests
2. Oral exams
3. Laboratory practical tests
4. Mannequin practical tests
5. Reports and studies

9. The most important sources of information about the program

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

4. Program development plan

Negotiation and persuasion The student must be able to influence others, : persuade them, discuss them, and reach an agreement .
Leadership : The student must be able to lead, motivate and direct others
Independence at work: The student must be able to assume responsibility
. and independence at work under various circumstances

6. Graduation projects

7. education institution

Faculty members

Scientific rank	Specialization		Special requirements/skills (if any)		Preparing the teaching staff	
	general	private			angel	lecturer

Professional development

Orienting new faculty members

Informs new faculty members of their rights and duties, student rights and obligations, program quality and academic accreditation, learning resources, and scientific research programs at the university.

Professional development for faculty members

For training seminars and learning at work sites from those with previous s 'learning, building on the individual-reading and self-experience, self previous experiences , engaging and joining scientific meeting s directly or through modern technological means such as training courses, workshops, discussion panels, conferences, professional academic degree programmes, work teams and cooperative learning .

8. Acceptance standard

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

- Please check the boxes corresponding to the individual learning outcomes from the program subject to evaluation

skills chart Program																	
Year/level	Course Code	Course Name	Essential or optional	Learning outcomes required from the programme													
				Knowledge				Skills				Value					
				A1	A2	A3	A4	B1	B2	B3	B4	C1	C2	C3	C4		
The first	HuAn101	General anatomy	Basic				✓					✓					
	MeBi102	biology	Basic				✓										
	Comp103	computer	Basic		✓								✓				
	MePh104	Medical physics	Basic				✓										
	HuRi105	human rights	Basic			✓											✓
	DeAn106	Dental anatomy	Basic				✓										
	EnLa107	English	Basic			✓						✓					
	ArLa108	Arabic	Basic			✓						✓					
	MeCh109	Medical chemistry	Basic				✓										

✓

- Please check the boxes corresponding to the individual learning outcomes from the program subject to evaluation

[illegible]

- Please check the boxes corresponding to the individual learning outcomes from the program subject to evaluation

skills chart Program													
Year/level	Course Code	Course Name	Essential or optional	Learning outcomes required from the programme									
				Knowledge				Skills				Value	
				A1	A2	A3	A4	B1	B2	B3	B4	C1	C2 C3 C4
Third	CoDe301	Community dentistry	Basic			✓							✓
	DeRa302	Dental x-rays	Basic				✓						
	GePa303	General Pathology	Basic				✓						
	Pros304	Prosthodontics	Basic				✓				✓		
	OrSur305	Oral surgery	Basic				✓				✓		
	Phar306	pharmaceutical	Basic				✓						
	Micro307	Microbiology	Basic				✓						
	Cons308	Conservative	Basic				✓						

- Please check the boxes corresponding to the individual learning outcomes from the program subject to evaluation

skills chart Program													
Year/level	Course Code	Course Name	Essential or optional	Learning outcomes required from the programme									
				Knowledge				Skills					
				A1	A2	A3	A4	B1	B2	B3	B4	C1	C2 C3 C4
Fourth	GeMe401	General Medicine	Basic				✓						
	GeSu402	General Surgery	Basic				✓						
	OrPa403	Oral Pathology	Basic				✓						
	OrSu404	Oral surgery	Basic				✓						
	Orth405	orthodontics	Basic				✓						
	PeDe406	Pediatric dentistry	Basic			✓							
	Peri407	Periodontics	Basic			✓							
	Pros408	Prosthodontics	Basic				✓				✓		
	CoDe409	Conservative	Basic			✓							

- Please check the boxes corresponding to the individual learning outcomes from the program subject to evaluation

skills chart Program

Year/level	Course Code	Course Name	Essential or optional	Learning outcomes required from the programme											
				Knowledge				Skills				Value			
				A1	A2	A3	A4	B1	B2	B3	B4	C1	C2	C3	C4
Fifth	PROS501	Prosthodontics	Basic				✓								
	OrMe502	Oral medicine	Basic				✓								
	Orsu503	Oral surgery	Basic				✓								
	Orth5044	orthodontics	Basic				✓								
	peDe505	Pediatric dentistry	Basic				✓								
	PrDe506	Preventive dentistry	Basic				✓								
	Peri507	Periodontics	Basic				✓								
	CoDe508	Conservative	Basic				✓								
	RePr509	research project	Basic			✓				✓					

1.Course Name :
General anatomy
2. Code Course
GeAn101
3. year / Semester
Annual/first
4. description was prepared this Date
2026 / 2025
5. Available attendance . A
presence
6.Number of study hours (total)/number of units (total)

7. Name of the course administrator

Ammar Ismail Jabbar — Prof. Dr. — (Theory & Practical) — ammar.i.jabbar@aliraqia.edu.iq

Hanin Ibrahim Ali Mohammed — Assist. Lecturer — (Theory) — haneen.i.ali@aliraqia.edu.iq

Thariyat Abdul-Rahman Mutlak Wadi — Assist. Lecturer — (Theory) — thariyat.a.rahman@aliraqia.edu.iq

8. objectives Course

Objectives of the study subject	• This course aims to provide the basics of human anatomy • Identify the mechanisms of action of various anatomical structures and organs • Students get an idea of applied anatomy and anatomical terminology • Identify the important components of the human body •
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9. Teaching and learning strategies

The strategy	1- s knowledge of the different anatomical structures of the 'The student . body and how they work 2-The student knows how these structures and organs influence the work of each other 3- The student diagnoses healthy organs d structures to compare them with ones unhealt
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10.Course structure					
the week	hours	Required learning outcomes	Name of the unit or topic	Learning method	Evaluation method
First	1 theoretical/week work/week 2	Introduction to Human Anatomy Descriptive Anatomic Terms	Introduction to Human Anatomy Descriptive Anatomic Terms	lecture	Weekly and monthly exams
second	theoretical 1 practical 2	Basic Structures: Skin, Fasciae, Muscle, Joints, Ligament, Bursae	Basic Structures: Skin, Fasciae, Muscle, Joints, Ligament, Bursae	lecture	Weekly and monthly exams
third	theoretical 1 practical 2	Basic Structures: Bone, Cartilage,	Basic Structures: Bone, Cartilage,	lecture	Weekly and monthly exams
fourth	theoretical 1 practical 2	, Blood Vessels, Lymphatic System	, Blood Vessels, Lymphatic System	lecture	Weekly and monthly exams
Fifth	theoretical 1 practical 2	Basic Structures: Nervous System, Mucous Membranes, Serous Membranes	Basic Structures: Nervous System, Mucous Membranes, Serous Membranes	lecture	Weekly and monthly exams
sixth	theoretical 1 practical 2	Skeletal system of the body: Skull:Cranial Bones	Skeletal system of the body: Skull:Cranial Bones	lecture	Weekly and monthly exams
Seventh	theoretical 1 practical 2	Skeletal system of the body: Skull:Cranial Bones	Skeletal system of the body: Skull:Cranial Bones	lecture	Weekly and monthly exams
Eigth	theoretical 1 practical 1 2 theoretical practical 2	Skeletal system of the body: Skull: Facial Bones	Skeletal system of the body: Skull: Facial Bones	lecture	Weekly and monthly exams
Ninth	theoretical 1 practical 2	Skeletal system of the body: Skull: Facial Bones	Skeletal system of the body: Skull: Facial Bones	lecture	Weekly and monthly exams
Tenth	theoretical 1 practical 2	External Views of the Skull	External Views of the Skull	lecture	Weekly and

					monthly exams
eleventh	theoretical 1 practical 2	External Views of the Skull	External Views of the Skull	lecture	Weekly and monthly exams
twelveth	theoretical 1 practical 2	The Cranial Cavity •Major Foramina and Fissures locations and structures pass through	The Cranial Cavity •Major Foramina and Fissures locations and structures pass through	lecture	Weekly and monthly exams
Thirteen th	theoretical 1 practical 2	Neonatal Skull	Neonatal Skull	lecture	Weekly and monthly exams
fourteen th	theoretical 1 practical	<i>Skeleton of the Orbital Region, Openings into the Orbital Cavity Skeleton of the External Nose, nasal cavity, Paranasal Sinuses Auditory ossicles Hyoid bone Exam.</i>	<i>Skeleton of the Orbital Region, Openings into the Orbital Cavity Skeleton of the External Nose, nasal cavity, Paranasal Sinuses Auditory ossicles Hyoid bone Exam.</i>	lecture	Weekly and monthly exams
Fifteenth	theoretical 1 practical			lecture	Weekly and monthly exams
sixteen	theoretical 1 practical	The Vertebral Column	The Vertebral Column	lecture	Weekly and monthly exams
seventeenth	theoretical 1 practical 2	Structure of the Thoracic Wall, Joints of the Chest Wall	Structure of the Thoracic Wall, Joints of the Chest Wall	lecture	Weekly and monthly exams
eighteen	theoretical 1 practical 2	Suprapleural Membrane Diaphragm Surface Anatomy	Suprapleural Membrane Diaphragm Surface Anatomy	lecture	Weekly and monthly exams
nineteen th	theoretical 1 practical 2	Thoracic cavity: mediastinum, pleurae,	Thoracic cavity: mediastinum, pleurae,	lecture	Weekly and monthly exams
twentieth	theoretical 1 practical 2	Trachea, Bronchi, Lungs	Trachea, Bronchi, Lungs	lecture	Weekly and monthly exams
Twenty – first	theoretical 1 practical 2	Pericardium, Heart, Large arteries,	Pericardium, Heart, Large arteries,	lecture	Weekly and monthly exams

Twenty - second	theoretical 1 practical 2	veins of thorax	veins of thorax	lecture	Weekly and monthly exams
Twenty - third	theoretical 1 practical 2	nerves of thorax	nerves of thorax	lecture	Weekly and monthly exams
Twenty - fourth	theoretical 1 practical 2	Bones of the Shoulder (Pectoral Girdle) girdles	Bones of the Shoulder (Pectoral Girdle) girdles	lecture	Weekly and monthly exams
Twenty - fifth	theoretical 1 practical 2	Bones of the upper extremities	Bones of the upper extremities	lecture	Weekly and monthly exams
Twenty - sixth	theoretical 1 practical 2	Bones of the Pelvic girdle	Bones of the Pelvic girdle	lecture	Weekly and monthly exams
Twenty - seventh	theoretical 1 practical 2	Bones of the lower extremities	Bones of the lower extremities	lecture	Weekly and monthly exams
Twenty - eighth	theoretical 1 practical 2	Abdominal cavity and organs	Abdominal cavity and organs	lecture	Weekly and monthly exams
Twenty - ninth	theoretical 1 practical 2	Abdominal cavity and organs	Abdominal cavity and organs	lecture	Weekly and monthly exams
thirty	theoretical 1 practical 2	Exam.	Exam.	lecture	Weekly and monthly exams

11.Course evaluation

Score distribution out of 100

12.5	First chapter
15	midyea
12.5	Second semester
60	ultimate

12.Learning and teaching resources

) methodology, if any (Required textbooks

Main references (sources)

1 .Snell's Clinical Anatomy by Regions, 10 th edition. Wolters Kluwer 2019

	2 .Netter's Head and Neck Anatomy for Dentistry 3 rd , editio Elsevier 2017 3 .Gray's Atlas of Anatomy, rd edition. Elsevier 2021
Recommended supporting books and references (scientific journals,).... reports	Reports published on th college website
Electronic references, Internet site	College website

Laboratory sessions

No.	Title of the sessions	Hou rs
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
	Skeleton of the Orbital Region, Openings into the Orbital Cavity	

15	Skeleton of the External Nose, nasal cavity, Paranasal Sinuses Auditory ossicles Hyoid bone	2
16	The Vertebral Column	2
17	The Vertebral Column	2
18	Structure of the Thoracic Wall Joints of the Chest Wall Suprapleural Membrane Diaphragm Surface Anatomy	2
19	Structure of the Thoracic Wall Joints of the Chest Wall Suprapleural Membrane Diaphragm Surface Anatomy	2
20	Thoracic cavity: Mediastinum, Pleurae, Trachea, Bronchi, Lungs	2
21	Thoracic cavity: Mediastinum, Pleurae, Trachea, Bronchi, Lungs	2
22	Pericardium, Heart, Large arteries, veins and nerves of thorax	2
23	Pericardium, Heart, Large arteries, veins and nerves of thorax	2
24	Pericardium, Heart, Large arteries, veins and nerves of thorax	2
25	Bones of the Shoulder (Pectoral girdle) girdles Bones of the Upper extremities	2
26	Bones of the Shoulder (Pectoral girdle) girdles Bones of the Upper extremities	2
27	Bones of the Pelvic girdle Bones of the Lower extremities	2
28	Bones of the Pelvic girdle Bones of the Lower extremities	2
29	Abdominal cavity and organs	2
30	Abdominal cavity and organs	2
Total		60

Course description form

Name of the course .1						
Medical biology						
2. Code Course						
MeBi102						
1. yea Semester						
Annual/first						
2. description was prepared Date this						
2026-2025						
3. Available attendance . A						
presence						
4.Number of study hours (total)/number of units (total)						
6 / 120						
5. Name of course adminstration						
Wendawi-Name: A.M.D. Soraya Karim El -:						
6. objectives Course						
Objectives of the study subject			Introduction to life sciences and understanding its various branch science, tissue science, genetics, parasitology, . and focusing on v related to the specialty of dentistry			
7.Teaching and learning strategies						
The strategy		1.Teaching the student the relationship of life sciences to humans 2.Understand the impact of life sciences on body and oral health 3. The relationship of genetics to an health and identifying the most important diseases that affect the mouth 4.The relationship of histology to humans and focus on understanding oral tissues 5.Relationship between cell science and blood 6. The relationship of parasitology and cytology to disease s that affect human especially oral diseases				
8.Course structure						
the week			Required learning outcomes	Name of the unit or topic	Learning method	Eval meth
First	2		Introduction to medical and oral biology	Introduction to medical and oral biology	A theoretical lecture using Power Point	Dai mo exar the e.
second	2		Archaea and eukaryotes	Prokaryotes and Eukaryotes	A theoretical lecture using Power Point	Dai mo exar

					<i>the final exam</i>
third	2	<i>General Immunology and Oral Immunology</i>	<i>General and oral immunity</i>	<i>A theoretical lecture using Power Point</i>	<i>Daily and monthly exams and the final exam</i>
fourth	2	<i>Bacteria and their role in oral diseases</i>	<i>Bacteria and oral disease</i>	<i>A theoretical lecture using Power Point</i>	<i>Daily and monthly exams and the final exam</i>
Fifth	2	<i>Genetics and its role in oral diseases</i>	<i>Genetics and its role in oral diseases</i>	<i>A theoretical lecture using Power Point</i>	<i>Daily and monthly exams and the final exam</i>
sixth	2	<i>Simple epithelial tissue (eg tongue) tissue</i>	<i>Simple Epithelial tissue (Tongue)</i>	<i>A theoretical lecture using Power Point</i>	<i>Daily and monthly exams and the final exam</i>
Seventh	2	<i>Multilayered epithelial tissue</i>	<i>Stratified epithelial tissue</i>	<i>A theoretical lecture using Power Point</i>	<i>Daily and monthly exams and the final exam</i>
Eighth	2	<i>Glandular epithelial tissue (eg) salivary gland</i>	<i>Glandular epithelial tissue (salivary gland)</i>	<i>A theoretical lecture using Power Point</i>	<i>Daily and monthly exams and the final exam</i>
Ninth	2	<i>General connective tissue (eg blood) tissue</i>	<i>General connective tissue (Blood)</i>	<i>A theoretical lecture using Power Point</i>	<i>Daily and monthly exams and the final exam</i>
Tenth	2	<i>Muscle tissue</i>	<i>Muscular tissue</i>	<i>A theoretical lecture using Power Point</i>	<i>Daily and monthly exams and the final exam</i>
eleventh	2	<i>Nervous tissue</i>	<i>Nervous tissue</i>	<i>A theoretical lecture using Power Point</i>	<i>Daily and monthly exams and the final exam</i>
twelfth	2	<i>Cell composition) oral mucosa (</i>	<i>Cell structure (oral mucus membrane)</i>	<i>A theoretical lecture using Power Point</i>	<i>Daily and monthly exams and the final exam</i>

Thirteenth	2	Structure of the plasma membrane	Plasma membrane structure	A theoretical lecture using Power Point	Daily and monthly exams and the final exam
fourteenth	2	Passage of substances across the cell membrane	Passage of materials across cell membrane	A theoretical lecture using Power Point	Daily and monthly exams and the final exam
Fifteenth	2	Cell cycle	Cell cycle	A theoretical lecture using Power Point	Daily and monthly exams and the final exam
sixteen	2	Cellular division	Mitosis and meiosis	A theoretical lecture using Power Point	Daily and monthly exams and the final exam
seventeenth	2	Cell energy	Cell energy	A theoretical lecture using Power Point	Daily and monthly exams and the final exam
eighteen	2	DNA and its types	Nucleic acid, DNA, RNA	A theoretical lecture using Power Point	Daily and monthly exams and the final exam
nineteenth	2	Introduction to parasitology	Introduction to parasitology	A theoretical lecture using Power Point	Daily and monthly exams and the final exam
twentieth	2	Parasite types and host	Types of parasites and host	A theoretical lecture using Power Point	Daily and monthly exams and the final exam
Twenty – first	2	Primitives	General and oral protozoa	A theoretical lecture using Power Point	Daily and monthly exams and the final exam
Twenty - second	2	Amoeba and its types in humans	Human amoebas, <i>E. histolytica</i> , <i>E. coli</i> , <i>E. gingivalis</i>	A theoretical lecture using Power Point	Daily and monthly exams and the final exam
Twenty - third	2	Flagellates and their types	Flagellates, <i>Giardia lamblia</i> , <i>Trichomonas tenax</i> , <i>T. hominis</i> , <i>T. vaginalis</i>	A theoretical lecture using Power Point	Daily and monthly exams and the final exam

					<i>the final exam</i>
<i>Twenty - fourth</i>	2	<i>Leishmania and its types (cutaneous) and visceral</i>	<i>Leishmania, cutaneous and vesiral</i>	<i>A theoretical lecture using Power Point</i>	<i>Daily and monthly exams and the final exam</i>
<i>Twenty – fifth</i>	2	<i>Sporozoites example of the (Plasmodium parasite and its) types</i>	<i>Sporozoa, Plasmodium spp.</i>	<i>A theoretical lecture using Power Point</i>	<i>Daily and monthly ex ams and the final exam</i>
<i>-twenty sixth</i>	2	<i>Toxoplasma parasite</i>	<i>Toxoplasma gondii</i>	<i>A theoretical lecture using Power Point</i>	<i>Daily and monthly exams and the final exam</i>
<i>Twenty - seventh</i>	2	<i>Nematodes are an example Ascaris () worm</i>	<i>Nemathelminthes, Ascaris lumbricoides</i>	<i>A theoretical lecture using Power Point</i>	<i>Daily and monthly exams and the final exam</i>
<i>Twenty- eighth</i>	2	<i>Nematodes Ancylostoma and () pinworm</i>	<i>Ancylostoma duodenale, Entrobilus vermicularis</i>	<i>A theoretical lecture using Power Point</i>	<i>Daily and monthly exams and final the exam</i>
<i>Twenty - ninth</i>	2	<i>Flatworms) liverworms (</i>	<i>Platyhelminthes, Fasciola hepatica</i>	<i>A theoretical lecture using Power Point</i>	<i>Daily and monthly exams and the final exam</i>
<i>thirty</i>	2	<i>Schistosomiasis worm and its types</i>	<i>. Schistosoma spp</i>	<i>A theoretical using lecture Power Point</i>	<i>Daily and monthly exams and the final exam</i>

9.Course evaluation

Score distribution out of 100

12.5	First chapter
15	midyear
12.5	Second semester
60	ultimate

10.Learning and teaching resources

Required textbooks (methodology, if any)	
Main references (sources)	1.Human biology, 8 edition, Inderbir Singh 2 . Cell Biology,3 edition.2017, Thomas,D; William Jennifer, L and Graham, T.

Recommended supporting books and references (scientific journals, reports....)	college Reports published on t website
Electronic references, Internet sites	College website

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

Course description form

1. Course Name						
computer						
2. Code Course						
Comp103						
3. yea Semester						
Annual/first						
4. description was prepared Date this						
2026-2025						
5. Available attendance . A						
presence						
6. Number of study hours (total)/number of units (total)						
4 / 90						
7. the course administrator Name of						
Muammar Shakir Mahmoud Abdul-Munim Al-Muadhin moamar.shakir@aliraqia.edu.iq						
8. objectives Course						
Objectives of the study subject		The course aims to familiarize the student with computer • used performance, its components, approved methods, and as well as computer applications in the field of , programs . dentistry				
9. Teaching and learning strategies						
The strategy		Teaching the student how to use a computer and what - 1 . operating systems are . How to use the computer and its office - 2				
10. Course structure						
the week	hours	Required learning outcomes	Name of the unit or topic	Learning method	Evaluation method	
First	1	<i>Introduction</i>	<i>the computer</i>	<i>Theoretical lecture Using power point</i>	<i>Short, semester, year -mid and final exams</i>	
second	1	<i>Basic Concepts of Computer, Data</i>	<i>the computer</i>	<i>Theoretical lecture</i>	<i>Short, semester,</i>	

		<i>and Information, Computer Components</i>		<i>Using power point</i>	<i>year -mid and final exams</i>
third	1	<i>Introduction to E-Learning Google classroom Google drive</i>	<i>the computer</i>	<i>Theoretical lecture Using power point</i>	<i>Short, semester, year -mid and final e xams</i>
fourth	1	<i>computer Hardware, software,</i>	<i>the computer</i>	<i>Theoretical lecture Using power point</i>	<i>Short, semester, year -mid and final exams</i>
Fifth	1	<i>Generations of Computer</i>	<i>the computer</i>	<i>Theoretical lecture Using power point</i>	<i>Short, semester, year -mid and final exams</i>
sixth	1	<i>Memory units</i>	<i>the computer</i>	<i>Theoretical lecture Using power point</i>	<i>Short, semester, year -mid and final exams</i>
Seventh	1	<i>Data Representation in the Memory</i>	<i>the computer</i>	<i>Theoretical lecture Using power point</i>	<i>Short, semester, year -mid and final ex ams</i>
Eighth	1	<i>Input/output Devices Application Software</i>	<i>the computer</i>	<i>Theoretical lecture Using power point</i>	<i>Short, semester, year -mid and final exams</i>
Ninth	1	<i>Input/output Devices Application Software</i>	<i>the computer</i>	<i>Theoretical lecture Using power point</i>	<i>, Short semester, year -mid and final exams</i>
Tenth	1	<i>operating system,</i>	<i>the computer</i>	<i>Theoretical lecture Using power point</i>	<i>Short, semester, year -mid and final exams</i>
eleventh	1	<i>Types of Operating systems</i>	<i>the computer</i>	<i>Theoretical lecture Using power point</i>	<i>Short, se mester, year -mid and final exams</i>
twelveth	1	<i>Introduction about MS-DOS Operating systems/DOS drive/Key-Board</i>	<i>the computer</i>	<i>Theoretical lecture Using power point</i>	<i>Short, semester, year -mid and final exams</i>

Thirteenth	1	Using keyboard shortcuts	the computer	Theoretical lecture Using power point	Short, semester, year -mid and final exams
fourteenth	1	Parts of a computer	the computer	Theoretical lecture Using power point	Short, semester, year -mid and final exams
Fifteenth	1	File properties, Working with files and folders	the computer	Theoretical lecture Using power point	Short, semester, year -mid and final exams
sixteen	1	file types	the computer	Theoretical lecture Using power point	Short, semester, year -mid and final exams
seventeenth	1	Types of computers	the computer	Theoretical lecture Using power point	Short, semester, year -mid and final exams
eighteen	1	Computer Programming Languages	the computer	Theoretical lecture Using power point	Short, semester, year -mid and final exams
nineteenth	1	Types of Programming Language : 1. Machine language (Low-level language)	the computer	Theoretical lecture Using power point	Short, semester, year -mid and final exams
twentieth	1	2. Assembly language (Low-level language), 3. High-level language	the computer	Theoretical lecture Using power point	Short, semester, year -mid and final exams
Twenty –first	1	Internet	the computer	Theoretical lecture Using power point	Short, semester, year -mid and final exams
Twenty - second	1	Computer Security	the computer	Theoretical lecture Using power point	Short, semester, year -mid and final exams

<i>Twenty - third</i>	1	<i>Computer virus</i>	<i>the computer</i>	<i>Theoretical lecture Using power point</i>	<i>Short, semester, year -mid and final exams</i>
<i>Twenty - fourth</i>	1	<i>Classification of a Computer</i>	<i>the computer</i>	<i>Theoretical lect ure Using power point</i>	<i>Short, semester, year -mid and final exams</i>
<i>Twenty -fifth</i>	1	<i>Features of a Computer</i>	<i>the computer</i>	<i>Theoretical lecture Using power point</i>	<i>Short, semester, year -mid and final exams</i>
<i>sixth-twenty</i>	1	<i>Uses of Computer in Our Daily Life</i>	<i>the com puter</i>	<i>Theoretical lecture Using power point</i>	<i>Short, semester, year -mid and final exams</i>
<i>Twenty - seventh</i>	1	<i>Introduction</i>	<i>the computer</i>	<i>Theoretical lecture Using power point</i>	<i>Short, semester, year -mid and final exams</i>
<i>Twenty- eighth</i>	1	<i>Basic Concepts of Computer, Data and Information, Computer Components</i>	<i>the computer</i>	<i>Theoretical lecture Using power point</i>	<i>Short, semester, year -mid and final exams</i>
<i>Twenty - ninth</i>	1	<i>Introduction to E-Learning Google classroom Google drive</i>	<i>the computer</i>	<i>Theoretical lecture Using power point</i>	<i>Short, semester, year -mid and final exams</i>
<i>thirty</i>	1	<i>computer Hardware, software,</i>	<i>the computer</i>	<i>Theoretical lecture Using power point</i>	<i>Short, semester, year -mid and final exams</i>

11.Course evaluation

Score distribution out of 100

First chapter	12.5
midye	15
Second semester	12.5
ultimate	60

12.Learning and teaching resources

Required textbooks (methodology, if any)

Main references (sources)	1-E-learning concepts and techniques, Mousa Afaneh, Vince Basile, Justin Bennett, Pamela Berman, Michael Bond 2-Computer application in management Dr. PS Aithal
Recommended supporting books and references (scientific journals, reports....)	Reports published on the colleg website
Electronic references, Internet sites	College website

Course description form

1. Course Name	
Medical physics	
2. Code Course	
MePh104	
3. yea / Semester	
Annual/first	
4. description was prepared Date this	
2026-2025	
5. Available attendance . A	
presence	
6. Number of study hours (total)/number of units (total)	
6 / 120	
7. Name of the course administrator	
Name :lect. Sarah Khudhair Taha & Assist.Lect. Ahmed abdulgafoor <u>sarah.kh.taha@aliraqia.edu.iq</u>	
8. objectives Course	
Objectives of the study subject	3. Introducing the student to the basic concepts of medical physics 4. Understanding how physical concepts are applied within the human body 5. Knowing how to use physical concepts in medical devices to diagnose and treat diseases
9. Teaching and learning strategies	
The strategy	1 - knowledge requester The concept of medical physics and its application inside the human body and outside the human body for medical purposes 2- identification requester sections of -The basic and sub medical physics 3-knowledge about devices that The student will learn use physical principles to diagnose and treat diseases

10.Course structure					
the week	hours	Required learning outcomes	Name of the unit or topic	Learning method	Evaluation method
First	2 Theoretical practical 2	Terms: Medical Physics, physical medicine, Physical therapy, Health Physics, Radiological Physics, clinical physics.	Terminology	lecture	and Weekly monthly exams
second	2 Theoretical practical 2	Modeling, Accuracy, Precision, False Positive, False Negative	Terminology	lecture	and Weekly monthly exams
third	2 Theoretical practical 2	Static forces:(type of levers with medical examples).	<i>Force on & in body</i>	lecture	and Weekly monthly exams
fourth	2 Theoretical practical 2	Dynamic forces (Centrifuge)	<i>Force on & in body</i>	lecture	and Weekly monthly exams
Fifth	2 Theoretical practical 2	Bones:(Function of bones, Composition of bone, bone remodeling, compact and trabecular bone)	<i>Physics of the skeleton</i>	lecture	and Weekly monthly exams
sixth	2 Theoretical practical 2	Stress-strain curve:(compressive and tensile stress, young modulus). Bone joints :(Synovial fluid, coefficient of a joint).	<i>Physics of the skeleton</i>	lecture	and Weekly monthly exams
Seventh	2 Theoretical practical 2	Physical basis of heat and temperature, Temperature scales, Converting Temperatures, Temperature in Dentistry, Thermal expansion	<i>Heat and cold in medicine</i>	lecture	and Weekly monthly exams
Eigth	2 Theoretical practical 2	(Linear, Area, Volume Thermal Expansion), Thermometry, Heat therapy, Thermography, Cold in medicine and	<i>Heat and cold in medicine</i>	lecture	and Weekly monthly exams

		cryosurgery. Thermal conductivity.			
Ninth	2 Theoretical practical 2	First law of thermodynamics. Energy change in the body (Met, Basal metabolic rate (BMR). Work and power. Efficiency heat losses from the body.	<i>Energy, work and power of the body</i>	lecture	and Weekly monthly exams
Tenth	2 Theoretical practical 2	Anaerobic phase and aerobic phase. Hypothalamus (body's thermostat). Heat lost by (radiation, convection, evaporation of sweat and respiration).	<i>Energy, work and power of the body</i>	lecture	and Weekly monthly exams
eleventh	2 Theoretical practical 2	Definition, absolute pressure, gauge pressure, negative pressure, unit of pressure. Measurement of pressure in the body (Manometer). Pressure inside the skull. Eye pressure.	<i>Pressure</i>	lecture	and Weekly monthly exams
twelveth	2 Theoretical practical 2	Pressure in the skeleton. Pressure in the urinary bladder. Boyle's law: (pressure while diving.HOT (hyperbaric oxygen therapy)	<i>Pressure</i>	lecture	and W eekly monthly exams
Thirteenth	2 Theoretical practical 2	Electrical potential of nerves (resting potential, action potential in myelinated and unmyelinated nerves) Electromyogram (EMG	<i>Electricity within the body</i>	lecture	and Weekly monthly exams
fourteenth	2 Theoretical practical 2	). Electrical potential in the heart (electrocardiogram ECG). Electroencephalogram (EEG)	<i>Electricity within the body</i>	lecture	and Weekly monthly exams
Fifteenth	2 Theoretical practical 2	Properties of sound.	<i>Sound in medicine</i>	lecture	and Weekly monthly exams

<i>sixteen</i>	2 Theoretical practical 2	Stethoscope (including heart sound).mechanism of hearing	<i>Sound in medicine</i>	lecture	and Weekly monthly exams
<i>seventeenth</i>	2 Theoretical practical 2	(A-scan, B-scan, M- scan and Doppler effect	<i>Ultrasound</i>	lecture	and Weekly monthly exams
<i>eighteen</i>	2 Theoretical practical 2	). Physiological effect of ultrasound in therapy.	<i>Ultrasound</i>	lecture	and Weekly monthly exams
<i>nineteenth</i>	2 Theoretical practical 2	Light nature, Planck Equation, (Reflection, Refraction and Absorption of Light, Properties of light),	<i>Light in medicine</i>	lecture	and Weekly monthly exams
<i>twentieth</i>	2 Theoretical practical 2	Diffuse reflection, Specular reflection, Phototherapy, Application of ultraviolet and infrared light in medicine, Tanning and Skin Cancer.	<i>Light in medicine</i>	lecture	and Weekly monthly exams
<i>Twenty – first</i>	2 Theoretical practical 2	What is laser? Application of laser in medicine Atomic Transitions, Population inversion, Laser Typical	<i>Laser in medicine</i>	lecture	and Weekly monthly exams
<i>Twenty - second</i>	2 Theoretical practical 2	Characteristics, General Applications of Laser, Laser Dental Applications, Reshape gum tissue, Laser aided teeth whitening, Laser Drill.	<i>Laser in medicine</i>	lecture	and Weekly monthly exams
<i>Twenty - third</i>	2 Theoretical practical 2	Focusing element of the eye (cornea, lens). Element of the eye (pupil, aqueous humor, vitreous humor, sclera).	<i>Physics of eye and vision</i>	lecture	and Weekly monthly exams
<i>Twenty - fourth</i>	2 Theoretical practical 2	Visual accuracy, Snellen chart, optical density.	<i>Physics of eye and vision</i>	lecture	and Weekly monthly exams
<i>Twenty – fifth</i>	2 Theoretical practical 2	Properties of X-ray, production of X-ray. Absorption of X-ray	<i>Physics of diagnostic X- ray</i>	lecture	and Weekly monthly exams
<i>-twenty sixth</i>	2 Theoretical practical 2	contrast media-ray image (penumbra, grid, and intensifying screens). Radiation to	<i>Physics of diagnostic X- ray</i>	lecture	and Weekly monthly exams

		patients from X-ray (filters).			
<i>Twenty - seventh</i>	2 Theoretical practical 2	Radioactivity decay, half-life, units. Basic instrumentation and its medical application (GM-tube, Photomultiplier tube, scintillation detector, solid state detector).	<i>Physics of nuclear medicine</i>	lecture	and Weekly monthly exams
<i>Twenty - eighth</i>	2 Theoretical practical 2	Therapy with radioactivity. Radiation doses in nuclear medicine.	<i>Physics of nuclear medicine</i>	lecture	and Weekly monthly exams
<i>Twenty - ninth</i>	2 Theoretical practical 2	The dose units (Rad and Grey). Principles of radiation therapy.	<i>Physics of radiation therapy</i>	lecture	and Weekly monthly exams
thirty	2 Theoretical practical 2	Brach therapy, quality factor (QF).	<i>Physics of radiation therapy</i>	lecture	and Weekly monthly exams

11.Course evaluation

Score distribution out of 100					
	12.5		First chapter		
	15		midyear		
	12.5		Second semester		
	60		ultimate		

12.Learning and teaching resources

Required textbooks (methodology, if any)	
Main references (sources)	1- Medical Physics, John R. Cameron & James G. Skofronick, " 2- Physics of Human Body Irving Herman
Recommended supporting books and references (scientific journals, reports....)	
Electronic references, Internet sites	

Laboratory sessions

Lab number	Study unit title	Hours
1	Focal length of a concave mirror.	2
2	Laser application for measurements of single slit width	2
3	Laser application for measurements of laser wavelength	2
4	Divergence of laser beam	2
5	Intensity of laser beam	2
6	Widening the bundle of laser rays	2

7	Cathode ray oscilloscope to measure D.C voltage	2
8	Cathode ray oscilloscope to measure A.C voltage	2
9	Viscosity of a liquid using small sphere	2
10	Viscosity of a liquid using different small sphere weight	2
11	Viscosity of different kind of liquids using small sphere	2
12	Ohm's law to calculate unknown resistance	2
13	Ohm's law for metal wire with different length	2
14	Ohm's law for metal wire with different section area	2
15	The focal length of a convex lens	2
16	Pendulum Measuring the acceleration of free fall	2
17	Pendulum Measuring the acceleration of free fall of different Spheres	2
18	Semiconductors (Junction diode).	2
19	Boyle's law	2
20	Hook's law to determine the force constant of the spring	2
21	Hook's law to determine the work done by the stretching the Spring	2
22	Velocity of the sound using tube of water	2
23	Velocity of the sound using tube of different liquids	2
24	The focal length of a converging lens.	2
25	Measuring the intensity of radiation	2
26	Specific heat capacity of water	2
27	Specific heat capacity of solid	2
28	Latent heat of vaporization	2
29	Archimedes principle	2
30	Thermal conductivity	2
Total		60

Course description form

1. Course Name	
human rights	
2. Code Course	
HuRi105	
3. yea Semester	
Annual/first	
4. description was prepared Date this	
2026-2025	
5. forms Available attendance . A	
presence	
6. Number of study hours (total)/number of units (total)	
2 / 30	
7. Name of the course administrator	
Hanaa Hassan Ubaid Nasrallah Al-Furaji — Lecturer Dr. — (Practical) — hanaa.h.obied@aliraqia.edu.iq Nagham Fadhil Aziz Rashid Al-Mufraji — Assist. Lecturer — (Theory) — nagham.almafrachi@gmail.com Abeer Abdul-Hussein Mohammed Jassim Al-Fatli — Assist. Lecturer — (Practical) — abeer.abd.mohammed@aliraqia.edu.iq	
8. objectives Course	
Objectives of the study subject	1. A comprehensive definition of human rights from the roots of developments witnessed by these basic their origins, the rights throughout the ages and human societies, and the contribution of divine laws, religions and civilizations in providing them with values and ideals throughout the various . eras 2. A statement of the international cognition of these rights by international organizations, primarily the United Nations, . then regional recognition in various parts of the world 3. Universal guarantees of human rights at the national level in national constitutions and legislation, represent ed by constitutional and judicial guarantees, then political guarantees, in addition to the role played by national organizations concerned with human rights in defending and . protecting these rights 4. s rights in a ncient 's rights and children'Introducing children s rights in Islam. And the 'civilizations, as well as children . rights of the child in the 1989 International Convention 5. Definition of democracy, and what the forms of democracy are
9. Teaching and learning strategies	

The strategy		Introducing the student to human rights and democracy, their content and the classification of public freedoms			
10.Course structure					
the week	hours	Required learning outcomes	Name of the unit or topic	Learning method	Evaluation method
First	hour	Introducing the concept of right and human rights	Introducing the concept of right and human rights	Giving the lecture	Participation, attendance and examination
second	hour	Types of human rights and the effects of differentiating between them	Types of human rights and the effects of differentiating between them	Giving the lecture	Participation, attendance and examination
third	hour	The historical development of human rights in ancient civilizations	The historical development of human rights in ancient civilizations	Giving the lecture	Participation, attendance and examination
fourth	hour	Human rights in religions and divine laws	Human rights in religions and divine laws	Giving the lecture	Participation, attendance and examination
Fifth	hour	Human rights resources	Human rights resources	Giving the lecture	Participation, attendance and examination
sixth	hour	Two international covenants on human rights	Two international covenants on human rights	Giving the lecture	Participation, attendance and examination
Seventh	hour	sources for National human rights	National sources for human rights	Giving the lecture	Participation, attendance and examination
Eighth	hour	French constitutions that followed the Declaration of Rights of 1789	French constitutions that followed the Declaration of Rights of 1789	Giving the lecture	Participation, attendance and examination
Ninth	hour	Human rights under the Constitution of the Republic of Iraq 2005	Human rights under the Constitution of the Republic of Iraq 2005	Giving the lecture	Participation, attendance and examination

Tenth	hour	Human rights guarantees	Human rights guarantees	Giving the lecture	Participation, attendance and examination
eleventh	hour	Constitutional guarantees	Constitutional guarantees	Giving the lecture	Participation, attendance and examination
twelveth	hour	Judicial guarantees	Judicial guarantees	Giving the lecture	Participation, attendance and examination
Thirteenth	hour	Human rights guarantees at the international level	Human rights guarantees at the international level	Givin g the lecture	Participation, attendance and examination
fourteenth	hour	United Nations General Assembly	United Nations General Assembly	Giving the lecture	Participation, attendance and examination
Fifteenth	hour	Exam	Exam	Giving the lecture	, Participation attendance and examination
sixteen	hour	Economic and Social Council	Economic and Social Council	Giving the lecture	Participation, attendance and examination
seventeenth	hour	Human Rights Council	Human Rights Council	Giving the lecture	Participation, attendance and examination
eighteen	hour	Children's rights Children's rights in ancient civilizations	Children's rights Children's rights in ancient civilizations	Giving the lecture	Participation, attendance and examination
nineteenth	hour	Children's rights in Roman civilization	Children's rights in Roman civilization	Giving the lecture	Participation, attendance and examination
twentieth	hour	Children's rights in ancient Egyptian civilization	Children's rights in ancient Egyptian civilization	Giving the lecture	Participation, attendance and examination
Twenty – first	hour	Children's rights in Mesopotamian civilization	Children's rights in Mesopotamian civilization	Giving the lecture	Participation, attendance and examination

Twenty - second	hour	child's r ights in Islam	child's rights in Islam	Giving the lecture	Participation, attendance and examination
Twenty - third	hour	Rights of the child in the 1989 international convention	Rights of the child in the 1989 international convention	Giving the lecture	Pa rticipation, attendance and examination
Twenty - fourth	hour	Democracy	Democracy	Giving the lecture	Participation, attendance and examination
Twenty – fifth	hour	The concept of democracy	The concept of democracy	Giving the lecture	Participation, attendan ce and examination
-twenty sixth	hour	Forms of democracy	Forms of democracy	Giving the lecture	Participation, attendance and examination
Twenty - seventh	hour	Direct democracy	Direct democracy	Giving the lecture	Participation, attendance and examination
Twenty- eighth	hour	Indirect democracy	Indirect democracy	Giving the lecture	Participation, attendance and examination
Twenty - ninth	hour	Representative democracy	Representative democracy	Giving the lecture	Participation, attendance and examination
thirt y	hour	Exam	Exam	Giving the lecture	Participation, attendance and examination

11.Course evaluation

Score distribution out of 100

12.5	First chapter
15	midyear
12.5	Second semester
60	ultimate

12.Learning and teaching resources

) methodology, if any (Required textbooks

Main references (sources)	University of Baghdad, ,) Rights Human (Bo College of Political Sciences 2009, Prof. Dr. Haf Dulaimi-Al Alwan
Recommended supporting books and references (scientific journals, reports....)	
Elect ronic references, Internet sites	

Laboratory sessions

Lab number	Study unit title	Hours
1	Introduction to Dental Anatomy & Carving Instruments	2
2	Numbering systems.	2
3	Practical demonstration of Carving a Cube (1cm*1cm*1cm)	2
4	-Introduction to Anatomical landmarks on Teeth models. - Carving of a cube.	2
5	Description &Carving of the Labial Aspect of P. Max. Right Central Incisor.	2
6	Description &Carving of the Mesial aspect of P. Max. Right Central Incisor.	2
7	Description ,Carving & Finishing of the Incisal Aspect of Permanent Max. Right Central Incisor.	2
8	Practical Training of Carving of P. Max. Right Central Incisor	2
9	Practical Exam. Of Carving of P. Max. Right Central Incisor	2
10	Description &Carving of the Labial & Mesial Aspects of P. Max. Right Canine.	2
11	Description ,Carving & Finishing of the Incisal Aspect of P. Max. Right Caninc.	2
12	Practical Training of Carving of P. Max. Right Canine.	2
13	Practical Exam. of Carving of P. Max. Right Canine.	2
14	Mid Year Practical Examination of Tooth Carving.	2
15	Description &Carving of the Buccal & Mesial Aspects of P.Max. Right 1st Premolar.	2
16	Description, Carving & Finishing of the Occlusal Aspect of P.Max. Right 1st Premolar.	2
17	Practical Training of Carving of P. Max. Right 1st Premolar	2
18	Practical Exam. Of Carving of P. Max. Right 1st Premolar	2

19	Description & Carving of the Buccal & Mesial Aspects of P.Mand. Right 1st Premolar.	2
20	Description, Carving & Finishing of the Occlusal Aspect of P.Mand. Right 1st Premolar.	2
21	Practical Training of Carving of P. Mand. Right 1st Premolar	2
22	Practical Exam. Of Carving of P. Mand. Right 1st Premolar	2
23	Description & Carving of the Buccal & Mesial Aspects of P. Max. Right 1st Molar.	2
24	Description, Carving & Finishing of the Occlusal Aspect of P. Max. Right 1st Molar.	2
25	Practical Training of Carving of P. Max. Right 1st molar.	2
26	Practical Exam. of Carving of P. Max. Right 1st molar.	2
27	Description & Carving of the Buccal & Mesial Aspects of P. Mand. Right 1st Molar	2
28	Description, Carving & Finishing of the Occlusal aspect of P.Mand 1st Molar/Practical Training of Carving p.Mand 1st molar.	2
29	Practical Examination of Carving of P. Mand. Right 1st molar	2
30	Final Oral & Practical Examination of Tooth carving	2
Total		60

Course description form

1. Course Name					
Dental anatomy					
2. Code Course					
DeAn106					
3. yea / Semester					
Annual/first					
4. description was prepared Date this					
2026-2025					
5. Available attendance . A					
presence					
6. number of units /) Number of study hours (total					
6 / 120					
7.) if more than one name is mentioned Name of the course administrator					
Mohammed Munther Abdul-Razzaq mohammad_monther@aliraqia.edu.iq					
8. objectives Course					
Objectives of the study subject		and theoretical Giving students an integrated practical on wax molds teeth training them on carving program by			
9. Teaching and learning strategies					
The strategy		1. Training the student on dental carving 2. Giving important information about the shape of the teeth 3. Giving instructions and following up on dental carving operations			
10. Course structure					
the week	hours	Required learning outcomes	Name of the unit or topic	Learning method	Evaluation method
First	2	<i>Introduction</i> <i>Nomenclature</i> <i>Heterodont</i> <i>Diphyodont</i> <i>The Deciduous Teeth</i> <i>The Permanent Teeth</i> <i>Anterior and Posterior Teeth</i> <i>The Jaw</i>	<i>Introduction</i>	<i>Theoretical lecture using PowerPoint</i>	<i>Short, -semester, mid year and final exams</i>

second	2	<i>Introduction</i> <i>Nomenclature</i> <i>Heterodont</i> <i>Diphyodont</i> <i>The Deciduous Teeth</i> <i>The Permanent Teeth</i> <i>Anterior and Posterior</i> <i>Teeth The Jaw</i>	<i>Introduction</i>	<i>Theoretical lecture using PowerPoint</i>	<i>Short, -semester, mid year and final exams</i>
third	2	<i>Numbering Systems</i> <i>1. Universal notification system.</i> <i>2. Palmer notification system.</i> <i>Crown and Root</i> <i>Dental pulp.</i> <i>Anatomical crown.</i> <i>Surfaces and Ridges</i>	<i>Numbering Systems</i>	<i>Theoretical lecture using PowerPoint</i>	<i>Short, -semester, mid year and final exams</i>
fourth	2	<i>Numbering Systems</i> <i>1. Universal notification system.</i> <i>2. Palmer notification system.</i> <i>Crown and Root</i> <i>Dental pulp.</i> <i>Anatomical crown.</i> <i>Surfaces and Ridges</i>	<i>Numbering Systems</i>	<i>Theoretical lecture using PowerPoint</i>	<i>Short, -semester, mid year and final exams</i>
Fifth	2	<i>Anatomical Landmarks</i> <i>Cusp, Tubercle,</i> <i>Cingulum, Ridge, Fossa,</i> <i>Developmental groove,</i> <i>Pit</i>	<i>Anatomical Landmarks</i>	<i>Theoretical lecture using PowerPoint</i>	<i>Short, -semester, mid year and final exams</i>
sixth	2	<i>Anatomical Landmarks</i> <i>Cusp, Tubercle,</i> <i>Cingulum, Ridge, Fossa,</i> <i>Developmental groove,</i> <i>Pit</i>	<i>Anatomical Landmarks</i>	<i>Theoretical lecture using PowerPoint</i>	<i>Short, -semester, mid year and final exams</i>
Seventh	2	<i>Permanent Maxillary Central Incisor</i> <i>Characteristic features of incisor's crown</i> <i>Permanent Maxillary Central Incisor (Principal)</i>	<i>Permanent Maxillary Central Incisor</i>	<i>Theoretical lecture using PowerPoint</i>	<i>Short, -semester, mid year and final exams</i>
Eighth	2	<i>Permanent Maxillary Central Incisor</i> <i>Characteristic features of incisor's crown</i> <i>Permanent Maxillary Central Incisor (Principal)</i>	<i>Permanent Maxillary Central Incisor</i>	<i>Theoretical lecture using PowerPoint</i>	<i>Short, -semester, mid year and final exams</i>
Ninth	2	<i>Permanent Maxillary Lateral Incisor</i> <i>Principal identifying features(Labial Aspect,</i>	<i>Permanent Maxillary Lateral Incisor</i>	<i>Theoretical lecture using PowerPoint</i>	<i>Short, -semester, mid year and final exams</i>

		<i>Mesial Aspect, Distal Aspect Variations from the typical form(Anomalies)</i>			
Tenth	2	<i>Permanent Maxillary Lateral Incisor Principal identifying features(Labial Aspect, Mesial Aspect, Distal Aspect Variations from the typical form(Anomalies)</i>	<i>Permanent Maxillary Lateral Incisor</i>	<i>Theoretical lecture using PowerPoint</i>	<i>Short, -semester, mid year and final exams</i>
eleventh	2	<i>Permanent Mandibular Incisors Characteristic features of Permanent mandibular Incisors Permanent Mandibular Central Incisor Key identifying features Permanent Mandibular Lateral Incisor Key identifying features Some differences between maxillary and mandibular central incisors Main differences between maxillary central and lateral incisors</i>	<i>Permanent Mandibular Incisors</i>	<i>Theoretical lecture using PowerPoint</i>	<i>Short, -semester, mid year and final exams</i>
twelveth	2	<i>Permanent Mandibular Incisors Characteristic features of Permanent mandibular Incisors Permanent Mandibular Central Incisor Key identifying features Permanent Mandibular Lateral Incisor Key identifying features Some differences between maxillary and mandibular central incisors Main differences between maxillary central and lateral incisors</i>	<i>Permanent Mandibular Incisors</i>	<i>Theoretical lecture using PowerPoint</i>	<i>Short, -semester, mid year and final exams</i>
Thirteenth	2	<i>Permanent Mandibular Incisors Characteristic features of Permanent mandibular Incisors</i>	<i>Permanent Mandibular Incisors</i>	<i>Theoretical lecture using PowerPoint</i>	<i>Short, -semester, mid year and final exams</i>

		<i>Permanent Mandibular Central Incisor</i> <i>Key identifying features</i> <i>Permanent Mandibular Lateral Incisor</i> <i>Key identifying features</i> <i>Some differences between maxillary and mandibular central incisors</i> <i>Main differences between maxillary central and lateral incisors</i>			
<i>fourteenth</i>	2	<i>Permanent Canines</i> <i>General Characteristic</i> <i>Features of the Canines</i> <i>The Permanent Maxillary Canine</i> <i>Key Identifying Features</i> <i>The Permanent Mandibular Canine</i> <i>Key Identifying Feature</i>	<i>Canines</i>	<i>Theoretical lecture using PowerPoint</i>	<i>Short, -semester, mid year and final exams</i>
<i>Fifteenth</i>	2	<i>Permanent Canines</i> <i>General Characteristic</i> <i>Features of the Canines</i> <i>The Permanent Maxillary Canine</i> <i>Key Identifying Features</i> <i>The Permanent Mandibular Canine</i> <i>Key Identifying Feature</i>	<i>Canines</i>	<i>Theoretical lecture using PowerPoint</i>	<i>Short, -semester, mid year and final exams</i>
<i>sixteen</i>	2	<i>Permanent Maxillary Premolars</i> <i>Some characteristic features to all posterior teeth</i> <i>Maxillary First Premolar</i> <i>Key identification features:</i> <i>Maxillary Second Premolar</i> <i>Key identifying features</i>	<i>Permanent Maxillary Premolars</i>	<i>Theoretical lecture using PowerPoint</i>	<i>Short, -semester, mid year and final exams</i>
<i>seventeenth</i>	2	<i>Permanent Maxillary Premolars</i> <i>Some characteristic features to all posterior teeth</i> <i>Maxillary First Premolar</i> <i>Key identification features:</i> <i>Maxillary Second Premolar</i> <i>Key identifying features</i>	<i>Permanent Maxillary Premolars</i>	<i>Theoretical lecture using PowerPoint</i>	<i>Short, -semester, mid year and final exams</i>

eighteen	2	Permanent Maxillary Premolars Some characteristic features to all posterior teeth Maxillary First Premolar Key identification features: Maxillary Second Premolar ~~Key identifying features~~	Permanent Maxillary Premolars	Theoretical lecture using PowerPoint	Short, , semester year and -mid final exams
nineteenth	2	Permanent Mandibular Premolars Mandibular First Premolar Characteristics that resemble those of the mandibular canine. Characteristics that resemble those of the second premolar mandibular. ~~Key Identifying Features~~	Permanent Mandibular First Premolars	Theoretical lecture using PowerPoint	Short, -semester, mid year and final exams
twentieth	2	Permanent Mandibular Premolars Mandibular First Premolar Characteristics that resemble those of the mandibular canine. Characteristics that resemble those of the second premolar mandibular. ~~Key Identifying Features~~	Permanent Mandibular First Premolars	Theoretical lecture using PowerPoint	Short, -semester, mid year and final exams
Twenty – first	2	Permanent Mandibular Second Premolar Key Identifying Features	Permanent Mandibular Second Premolar	Theoretical lecture using PowerPoint	Short, -semester, mid year and final exams
Twenty - second	2	Permanent Maxillary Molars Maxillary First Molar Key Identifying Features Maxillary second molar	Permanent Maxillary First Molar Permanent Maxillary second and third molars	Theoretical lecture using PowerPoint	Short, -semester, mid year and final exams
Twenty - third	2	Permanent Maxillary Molars Maxillary First Molar Key Identifying Features Maxillary second molar	Permanent Maxillary First Molar Permanent Maxillary second and third molars	Theoretical lecture using PowerPoint	Short, -semester, mid year and final exams

Twenty - fourth	2	Permanent Mandibular Molars Mandibular First Molar Key Identifying Features	Permanent Mandibular First Molar	Theoretical lecture using PowerPoint	Short, -semester, mid year and final exams
Twenty – fifth	2	Permanent Mandibular Second Molar Key Identifying Features Mandibular third molar Key Identifying Features	Permanent Mandibular Second and third molars	Theoretical lecture using PowerPoint	Short, -semester, mid year and final exams
-twenty sixth	2	Tooth development Sequential Order of Deciduous Teeth According to their Eruption Times Deciduous Teeth The Importance of Deciduous Teeth Maxillary Deciduous Teeth Mandibular Deciduous Teeth Principal Differences between Deciduous and Permanent Teeth	Tooth development	Theoretical lecture using PowerPoint	Short, -semester, mid year and final exams
Twenty - seventh	2	Tooth development Sequential Order of Deciduous Teeth According to their Eruption Times Deciduous Teeth The Importance of Deciduous Teeth Maxillary Deciduous Teeth Mandibular Deciduous Teeth Principal Differences between Deciduous and Permanent Teeth	Tooth development	Theoretical lecture using PowerPoint	Short, -semester, mid year and final exams
Twenty- eighth	2	Pulp Cavities Pulp Cavities of the Maxillary Teeth Pulp Cavities of the Mandibular Teeth	Pulp Cavities	Theoretical lecture using PowerPoint	Short, , semester year and -mid final exams
Twenty - ninth	2	Pulp Cavities Pulp Cavities of the Maxillary Teeth Pulp Cavities of the Mandibular Teeth	Pulp Cavities	Theoretical lecture using PowerPoint	Short, -semester, mid year and final exams

thirty	2	Occlusion and physiologic form of teeth and periodontium	Occlusion and physiologic form of teeth and periodontium	Theoretical lecture using PowerPoint	Short, -semester, mid year and final exams
thirty	2	Occlusion and physiologic form of teeth and periodontium	Occlusion and physiologic form of teeth and periodontium	Theoretical lecture using PowerPoint	Short, -semester, mid year and final exams

11.Course evaluation

Score distribution out of 100

12.5	First chapter
15	midyear
12.5	Second semester
60	ultimate

12. and teaching resources Learning

Required textbooks (methodology, if any)	
Main references (sources)	1-Woelfel's Dental Anatomy It's Relevanceto Dentistry . 2- Wheeler's Atlas of Tooth Form
Recommended supporting books and).... references (scientific journals, report s	Reports published on the colleg website
Electronic references, Internet sites	College website

Laboratory sessions

Lab number	Study unit title	Hours
1	Introduction to Dental Anatomy & Carving Instruments	2
2	Numbering systems.	2
3	Practical demonstration of Carving a Cube (1cm*1cm*1cm)	2
4	-Introduction to Anatomical landmarks on Teeth models. - Carving of a cube.	2
5	Description &Carving of the Labial Aspect of P. Max. Right Central Incisor.	2
6	Description &Carving of the Mesial aspect of P. Max. Right Central Incisor.	2

7	Description ,Carving & Finishing of the Incisal Aspect of Permanent Max. Right Central Incisor.	2
8	Practical Training of Carving of P. Max. Right Central Incisor	2
9	Practical Exam. Of Carving of P. Max. Right Central Incisor	2
10	Description &Carving of the Labial & Mesial Aspects of P. Max. Right Canine.	2
11	Description ,Carving & Finishing of the Incisal Aspect of P. Max. Right Canine.	2
12	Practical Training of Carving of P. Max. Right Canine.	2
13	Practical Exam. of Carving of P. Max. Right Canine.	2
14	Mid Year Practical Examination of Tooth Carving.	2
15	Description &Carving of the Buccal & Mesial Aspects of P.Max. Right 1st Premolar.	2
16	Description, Carving & Finishing of the Occlusal Aspect of P.Max. Right 1st Premolar.	2
17	Practical Training of Carving of P. Max. Right 1st Premolar	2
18	Practical Exam. Of Carving of P. Max. Right 1st Premolar	2
19	Description &Carving of the Buccal & Mesial Aspects of P.Mand. Right 1st Premolar.	2
20	Description, Carving & Finishing of the Occlusal Aspect of P.Mand. Right 1st Premolar.	2
21	Practical Training of Carving of P. Mand. Right 1st Premolar	2
22	Practical Exam. Of Carving of P. Mand. Right 1st Premolar	2
23	Description &Carving of the Buccal & Mesial Aspects of P. Max.Right 1st Molar.	2
24	Description, Carving & Finishing of the Occlusal Aspect of P. Max. Right 1st Molar.	2
25	Practical Training of Carving of P. Max. Right 1st molar.	2
26	Practical Exam. of Carving of P. Max. Right 1st molar.	2
27	Description &Carving of the Buccal & Mesial Aspects of P. Mand. Right 1st Molar	2
28	Description ,Carving & Finishing of the Occlusal aspect of P.Mand 1st Molar/Practical Training of Carving p.Mand 1st molar.	2
29	Practical Examination of Carving of P. Mand. Right 1st molar	2

30	Final Oral & Practical Examination of Tooth carving	2
Total		60

Course description form

1.Course Name	
Arabic	
2. Code Course	
ArLa108	
3. yea / Semester	
Annual/first	
4. description was prepared Date this	
2026-2025	
5. Available attendance . A	
presence	
6.Number of study hours (total)/number of units (total)	
2 / 30	
7.) if more than one name is mentioned Name of the course administrator	
Ayad Taha Sarhan ayad.sarhan@aliraqia.edu.iq	
8. objectives Course	
Objectives of the stu subject	students of the The course aims to preserve the Arabic language for first stage of the College of Dentistry, by preparing students, qualifying them scientifically and educationally, and making good use of their academic qualifications to enhance the connection with s past 'between the nation the Arabic language, achieving a balance and its present, training students in dialogue, discussion, and good speech, developing their writing and dictation skills, and refining them to be Academically qualified, and to provide their services to . society in the best way
9.Teaching and learning strategies	
The strategy	1-Identifying the levels of the Arabic language system 2- . Knowledge of grammatical and morphological rules 3- . Identifying linguistic and literary problems among students 4- . literary texts Contemporary reading of linguistic and 5- . Analyzing and explaining texts

		6- . Linking the text to its external surroundings				
10.Course structure						
the week			Required learning outcomes	Name of the unit or topic	Learning method	Evaluation method
First	1		Contemporary reading of linguistic and literary texts, text analysis and . explanation	Mutanabbi-Al	lecture	the ex
second	1		Contemporary reading of linguistic and literary texts, text analysis and . explanation	Badr Shaker Sayyab	lecture	the ex
third	1		Contemporary reading of linguistic and literary texts, text analysis and . explanation	Malaika-Nazik al	lecture	the ex
fourth	1		Contemporary reading of linguistic and literary texts, text analysis and . explanation	jeweler	lecture	the ex
Fifth	1		Knowledge of grammar rules	Noun phrase	lecture	the ex
sixth	1		Knowledge of grammar rules	Actual sentence	lecture	the ex
Seventh	1		Knowledge of grammar rules	The beginner	lecture	the ex
Eighth	1		Knowledge of grammar rules	the news	lecture	the ex
Ninth	1		Knowledge of grammar rules	Copiers	lecture	the ex
Tenth	1		Knowledge of grammar rules	For the original and subsidiary signs in the noun, verb, and letter	lecture	the ex
eleventh	1		Knowledge of grammar rules	For the original and subsidiary signs in the noun, and letter , verb	lecture	the ex
twelveth	1		Knowledge of grammar rules	Subaccusative signs	lecture	the ex
Thirteenth	1		Knowledge of grammar rules	prepositions-Sub	lecture	the ex

<i>fourteenth</i>	1	<i>Knowledge of grammar rules</i>	<i>part tags-Sub</i>	<i>lecture</i>	<i>the exams</i>
<i>Fifteenth</i>	1	<i>Knowledge of morphological topics:) derivatives (</i>	<i>Name of subject</i>	<i>lecture</i>	<i>the exams</i>
<i>sixteen</i>	1	<i>Knowledge of morphological topics:) derivatives (</i>	<i>Exaggeration formulas</i>	<i>lecture</i>	<i>the exams</i>
<i>seventeenth</i>	1	<i>Knowledge of morphological topics:) derivative (s</i>	<i>participle</i>	<i>lecture</i>	<i>the exams</i>
<i>eighteen</i>	1	<i>Knowledge of morphological topics:) derivatives (</i>	<i>Action, abstract, and more</i>	<i>lecture</i>	<i>the exams</i>
<i>nineteenth</i>	1	<i>Knowledge of morphological topics:) derivatives (</i>	<i>Imperfect verb</i>	<i>lecture</i>	<i>the exams</i>
<i>twentieth</i>	1	<i>Knowled ge of morphological topics:) derivatives (</i>	<i>Missed name</i>	<i>lecture</i>	<i>the exams</i>
<i>Twenty – first</i>	1	<i>Knowledge of morphological topics:) derivatives (</i>	<i>Shortened name</i>	<i>lecture</i>	<i>the exams</i>
<i>Twenty - second</i>	1	<i>Knowledge of morphological topics:) derivatives (</i>	<i>Elongated name</i>	<i>l ecture</i>	<i>the exams</i>
<i>Twenty - third</i>	1	<i>Knowledge of morphological topics:) derivatives (</i>	<i>Crushing crowds</i>	<i>lecture</i>	<i>the exams</i>
<i>Twenty - fourth</i>	1	<i>Knowledge of morphological topics:) derivatives (</i>	<i>Masculine, feminine, and feminine signs</i>	<i>lecture</i>	<i>the exams</i>
<i>Twenty – fifth</i>	1	<i>Knowledge of : spelling topics</i>	<i>Deletion and addition</i>	<i>lecture</i>	<i>the exams</i>
<i>-twenty sixth</i>	1	<i>Knowledge of : spelling topics</i>	<i>The short alif and the elongated alif) soft alif (</i>	<i>lecture</i>	<i>the exams</i>
<i>Twenty - seventh</i>	1	<i>Knowledge of : spelling topics</i>	<i>and 'The open tā 'the marubat tā</i>	<i>lecture</i>	<i>the exams</i>
<i>Twenty- eighth</i>	1	<i>Knowledge of : spelling topics</i>	<i>Dhaad and Dhaa</i>	<i>lecture</i>	<i>the exams</i>
<i>Twenty - ninth</i>	1	<i>Knowledge of : spelling topics</i>	<i>The hamza and its rulings</i>	<i>lecture</i>	<i>the exams</i>

<i>thirty</i>	1	<i>Knowledge of : spelling topics</i>	<i>punctuati on marks</i>	<i>lecture</i>	<i>the exams</i>
11.Course evaluation					
Score distribution out of 100					
12.5			Fi	First chapter	
15			m	midyear	
12.5			S	econd	
60			ul	ultimate	
12.Learning and teaching resources					
Required textbooks (methodology, if any)					
Main references (sources)			specialization, -Qassam, non- language, Ar Qahtan Rashid Al		
Recommended supporting books and references).... scientific journals, reports (					
Electronic references, Internet sites					

Course description form

1.Course Name					
Medical Chemistry					
2. Code Course					
MeCh109					
3. year /Semester					
Annual/first					
4. description was prepared Date this					
2026-2025					
5. Available attendance . A					
presence					
6.Number of study hours (total)/number of units (total)					
6 /120					
7. Name of the course administrator					
Abbas Shabib Hassan Mohammed Al-Masari — Prof. Dr. — (Theory & Practical) — abbas.sh.hasan@aliraqia.edu.iq Abdul-Qadir Mohammed Abdul-Qadir — Assist. Prof. Dr. — (Theory & Practical) — alqader7@aliraqia.edu.iq Muataz Jawad Kadhim Jabr Al-Ukaili — Lecturer Dr. — (Theory & Practical) — muataz.i.kadhim@aliraqia.edu.iq					
8. objectives Course					
Objectives of the study subject		1. Preparing highly qualified students in the field of medicinal chemistry - 2.Introducing the student to the basic concepts of medicinal chemistry and its uses in the industrial and pharmaceutical fields 3. applied aspect, linking it to life, and keeping pace with Emphasizing the - scientific development using analyzes with the latest technology			
9.Teaching and learning strategies					
The strategy		1- The student gets to know acids, bases, and salts and the importance of their role in human body fluids 2-The student will understand Buffer solution, blood pH . colloids-colloids and , 3-The student recognizes the hydrocarbon compounds alkanes, alkenes, alkynes, aromatic compounds, and carboxylic acids, and is able to characterize the m 4-The student should be familiar with carbohydrates, amino acids, proteins and fats and their importance within the body			
10.Course structure					
the week	hours	hours Required learning outcomes	Name of the unit or topic	Learning method	Evaluation method

First	2	<i>Acids, bases and salts</i>	<i>Acids, bases and salts</i>	<i>Weekly lecture using the smart and regular board And a smart projector</i>	<i>Homework and daily and semester exams</i>
Second	2	<i>Salts, their preparation, fluids and electrolytic solutions</i>	<i>Salts, preparation of salts, fluid and electrolyte</i>	<i>The weekly lecture using the smart and regular board and a smart projector</i>	<i>Homework and daily and semester exams</i>
Third	2	<i>exam. Exam</i>	<i>exam. exam</i>	<i>The weekly lecture using the smart and regular board and a smart projector</i>	<i>Homework and d aily and semester exams</i>
Fourth	2	<i>Buffer solution and balance of acids and bases</i>	<i>Buffer PH and acid base balance</i>	<i>The weekly lecture using the smart and regular board and a smart projector</i>	<i>Homework and daily and semester exams</i>
Fifth	2	<i>blood Balance of acids, b ases, and PH</i>	<i>Acid base balance and blood PH</i>	<i>The weekly lecture using the smart and regular board and a smart projector</i>	<i>Homework and daily and semester exams</i>

Sixth	2	<i>Colloids</i>	<i>Colloids and colloidal dispersions</i>	<i>The weekly lecture using the smart and regular board and a smart projector</i>	<i>Homework and daily and semester exams</i>
Seventh	2	<i>Concentration and preparation of solutions</i>	<i>Concentration, preparation of solutions</i>	<i>The weekly lecture using the smart and regular board and a smart projector</i>	<i>Homework and daily and semester exams</i>
Eighth	2	<i>Preparation of solutions</i>	<i>Concentration, preparation of solutions</i>	<i>The weekly lecture using the smart and regular board and a smart projector</i>	<i>Homework and daily and semester exams</i>
Ninth	2	<i>Environmental affliction</i>	<i>pollution</i>	<i>The weekly lecture using the smart and regular board and a smart projector</i>	<i>Homework and daily and semester exams</i>
Tenth	2	<i>Radiochemistry</i>	<i>Radiochemistry</i>	<i>The weekly lecture using the smart and regular board and a</i>	<i>Homework and daily and semester exams</i>

				<i>smart projector</i>	
eleventh	2	<i>Alkanes and cycloalkanes</i>	<i>Alkanes and cycloalkanes</i>	<i>The weekly lecture using the smart and regular board and a smart projector</i>	<i>Homework and daily and semester exams</i>
twelveth	2	<i>Alkenes and alkynes</i>	<i>Alkenes and alkynes</i>	<i>The weekly lecture using the smart and regular board and a smart projector</i>	<i>Homework and daily and semester exams</i>
Thirteenth	2	<i>Aromatic compounds</i>	<i>Aromatic compounds</i>	<i>The weekly lecture using the smart and regular board and a smart projector</i>	<i>Homework and daily and semester exam</i>
<i>fourteenth</i>	2	<i>Aromatic notes in nature</i>	<i>Aromatic compounds in nature</i>	<i>The weekly lecture using the smart and regular board and a smart projector</i>	<i>Homework and daily and semester exams</i>
<i>Fifteenth</i>	2	<i>Stereoisomers of carbon</i>	<i>Stereoisomers of carbon</i>	<i>The weekly lecture using the smart and regular board</i>	<i>Homework and daily and semester exams</i>

				<i>and a smart projector</i>	
<i>sixteen</i>	2	<i>Diastomers</i>	<i>Diastomers</i>	<i>The weekly lecture using the smart and regular board and a smart projector</i>	<i>Homework and daily and semester exams</i>
<i>seventeenth</i>	2	<i>Alcohols, phenols and thiols</i>	<i>Alcohols, phenol, ether, and thiol</i>	<i>The weekly lecture using the smart and regular board and a smart projector</i>	<i>Homework and daily and semester exams</i>
<i>eighteen</i>	2	<i>Carboxylic acids part 1</i>	<i>Carboxylic acid part 1</i>	<i>The weekly lecture using the smart and regular board and a smart projector</i>	<i>Homework and daily and semester exams</i>
<i>nineteenth</i>	2	<i>Carboxylic acids part 2</i>	<i>Carboxylic acid part 2</i>	<i>The weekly lecture using the smart and regular board and a smart projector</i>	<i>Homework and daily and semester exams</i>
<i>twentieth</i>	2	<i>Aldehydes and ketones</i>	<i>Aldehydes and ketones</i>	<i>The weekly lecture using the smart and regular</i>	<i>Homework and daily and semester exams</i>

				<i>board and a smart projector</i>	
<i>Twenty – first</i>	2	<i>Carbohydrides</i>	<i>Carbohydrates</i>	<i>The weekly lecture using the smart and regular board and a smart projector</i>	<i>Homework and daily and semester exams</i>
<i>Twenty – second</i>	2	<i>Monosaccharides</i>	<i>Monosaccharides</i>	<i>The weekly lecture using the smart and regular board and a smart projector</i>	<i>Homework and daily and semester exams</i>
<i>Twenty – third</i>	2	<i>Disaccharides</i>	<i>Disaccharides</i>	<i>The weekly lecture using the smart and regular board and a smart projector</i>	<i>Homework and daily and semester exams</i>
<i>Twenty – fourth</i>	2	<i>Fats</i>	<i>Lipids</i>	<i>The weekly lecture using the smart and regular board and a smart projector</i>	<i>Homework and daily and semester exams</i>
<i>Twenty – fifth</i>	2	<i>The role of lipids in teeth diseases</i>	<i>The role of lipids in teeth diseases</i>	<i>The weekly lecture using the smart and</i>	<i>Homework and daily and semester exams</i>

				<i>regular board and a smart projector</i>	
<i>-twenty sixth</i>	2	<i>Proteins</i>	<i>proteins</i>	<i>The weekly lecture using the smart and regular board and a smart projector</i>	<i>Homework and daily and semester exams</i>
<i>Twenty – seventh</i>	2	<i>amino acids</i>	<i>Amino acids</i>	<i>The weekly lecture using the smart and regular board and a smart projector</i>	<i>Homework and daily and semester exams</i>
<i>Twenty-eighth</i>	2	<i>Nucleic acids</i>	<i>Nucleic acids</i>	<i>The weekly lecture using the smart and regular board and a smart projector</i>	<i>Homework and daily and semester exams</i>
<i>Twenty – ninth</i>	2	<i>Nucleosides</i>	<i>Nucleosides</i>	<i>The weekly lecture using the smart and regular board and a smart projector</i>	<i>Homework and daily and semester exams</i>
<i>thirty</i>	2	<i>Dioxy and ribo nucleic acid</i>	<i>Dioxy and ribo nucleic acid</i>	<i>The weekly lecture using the smart</i>	<i>Homework and daily and semester exams</i>

				and regular board and a smart projector	
11.Course evaluation					
Score distrib	ution	t of 100			
	ou				
		12.5	F	First chapter	
		15	m	midyear	
		12.5	S	Second semester	
		60	u	ultimate	
12.Learning and teaching resources					
Required textbooks (methodology, if any)					
Main references (sources)			The Chemical Basis of Life, George H. Schmi		
Recommended supporting books and references (scientific).... journals, reports			Reports published on the colleg website		
Electronic references, Internet sites			College website		

Laboratory sessions

Lab number	Study unit title	Hours
1	Lab safety	2
2	Name of some important chemicals and equipments	2
3	Action of Strong Base and Acids	2
4	Solubility rules and Applications .	2
5	Test for negative ions (Anions).Part I	2
6	Test for negative ions (Anions).Part II	2
7	Test for positive ions (Cations).Part I	2
8	Test for positive ions (Cations).Part II	2
9	Test for positive ions (Cations) Unknown investigations	2
10	Hydrocarbons.	2
11	Alcohol	2
12	Aromatic hydrocarbons(Phenol)	2
13	Aromatic hydrocarbons(Aspirin)	2
14	Aldehyde and Ketone	2
15	Aldehyde and Ketone(Unknown investigations)	2
16	Carboxylic acid (Part I)	2
17	Carboxylic acid (Part II)	2
18	Carbohydrates. (Part I)	2
19	Carbohydrates. (Part II)	2
20	Carbohydrates. (Unknown investigations)	2

21	Lipids. (Part I)	2
22	Lipids. (Part II)	2
23	Protein. (Part I)	2
24	Protein. (Part II)	2
25	Protein. (Unknown investigations)	2
26	Buffers.	2
27	Osmosis.	2
28	Acid-Base Titration.	2
29	Oxidation –Reduction.	2
30	pH-Meters.	2
Total		60

Course description form

1. Course Name :					
General anatomy					
2. Code Course					
GeAn201					
3. year Semester					
Annual/second					
4. description was prepared Date this					
2026 / 2025					
5. Available attendance . A					
presence					
6. of units (total) Number of study hours (total)/number					
4 / 90					
7. Name of the course administrator					
Riam Abbas Ashour — Assist. Lecturer — (Theory) — rivam.a.ashour@aliraqia.edu.iq					
8. objectives Course					
Objectives of the study subject		- This course aims to provide the basics of human anatomy - Identify the mechanisms of action of various anatomical structures and organs . - Students get an idea of applied anatomy and anatomical terminology - Identify the important components of the human body			
9. Teaching and learning strategies					
The strategy		4- s knowledge of the different anatomical structures of the 'The student . how they work human body and 5-The student knows how these structures and organs influence the work of each other 6-The student diagnoses healthy organs and structures to compare them w unhealthy structures			
10. Course structure					
the week	hours	Required learning outcomes	Name of the unit or topic	Learning method	Evaluation method
First	1 theoretical/week 2 work/week	- 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	Scalp	lecture	Weekly and monthly exams

second	1 theoretical 2 practical	•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	The orbital region	lecture	Weekly and monthly exams
third	1 theoretical 2 practical	•The •External Nose •Nerve Supply of the External Nose •Blood Supply and Venous Drainage of the External Nose •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	The Nasal region	lecture	Weekly and monthly exams
fourth	1 theoretical 2 practical	•Introduction •Branches of the Mandibular Nerve •Otic Ganglion •Clinical Notes	Mandibular nerve	lecture	Weekly and monthly exams
Fifth	1 theoretical 2 practical	•Skin of the Face •Muscles of the Face (Muscles of Facial Expression) •Sensory Nerves of the Face •Arterial Supply of the Face •venous drainage of the Face •venous drainage of the Face •Lymphatic drainage of the face •Facial nerve	Face	lecture	Weekly and monthly exams
sixth	1 theoretical 2 practical	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	Oral cavity	lecture	Weekly and monthly exams
Seventh	1 theoretical 2 practical	Muscles of the Tongue •Movements of the Tongue	Tongue	lecture	Weekly and monthly exams
Eighth	1 theoretical 2 practical 1 theoretical	•The temporal fossa anatomy •The infratemporal fossa •Communications •Muscles of mastication	Temporal region	lecture	Weekly and monthly exams

	2 practical				
Ninth	1 theoretical 2 practical	•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	Parotid gland	lecture	Weekly and monthly exams
Tenth	1 theoretical 2 practical	•Boundaries, Communications and openings •Maxillary nerve •Branches from the pterygopalatine ganglion •THE PTERYGOPALATINE GANGLION •THE VEINS OF THE PTERYGOPALATINE FOSSA	The Pterygopalatine fossa	lecture	Weekly and monthly exams
eleventh	1 theoretical 2 practical	•Introduction •The Articular Disk •Retrodiscal Tissue •Capsule •Synovial Membrane •Ligaments •Nerve Supply •Vascular Supply •Movements •Important Relationships of the Temporomandibular Joint •Clinical Notes	Temporomandibular joint	lecture	Weekly and monthly exams
twelfth	1 theoretical 2 practical	•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	The neck	lecture	Weekly and monthly exams
Thirteenth	1 theoretical 2 practical	•ANTERIOR TRIANGLE •SUBMENTAL TRIANGLE •SUBMANDIBULAR TRIANGLE •CAROTID TRIANGLE •MUSCULAR TRIANGLE •Posterior Triangle •Thyroid Gland •blood supply & venous drainage •nerve supply	Triangles of the neck	lecture	Weekly and monthly exams
fourteenth	1 theoretical 2 practical	MUSCLES OF THE SUBMANDIBULAR REGION The submandibular gland Sublingual Gland	Submandibular region	lecture	Weekly and monthly exams
Fifteenth	1 theoretical 2 practical	•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	Root of the neck	lecture	Weekly and monthly exams
sixteen	1 theoretical 2 practical	•Common Carotid Artery •Carotid Sinus •Carotid Body •External Carotid Artery •Internal Carotid Artery •Subclavian Arteries (3 parts) •Circle of Willis	Arteries of the neck	lecture	Weekly and monthly exams
seventeenth	1 theoretical	•Nervous System •Gross Anatomy of the Brain •Parts of the Brain •Ventricular System of the Brain •The Venous Blood	Brain	lecture	Weekly and monthly exams

	2 <i>practical</i>	Sinuses (Dural Sinuses) •Blood Supply of the Brain •Cranial Meninges •Dural Nerve Supply •Dural Arterial Supply Dural Venous Drainage Clinical Focus			
<i>eighteen</i>	1 <i>theoretical</i> 2 <i>practical</i>	•Introduction •Functional Components •Summary of cranial nerves	Cranial nerves	<i>lecture</i>	<i>Weekly and monthly exams</i>
<i>nineteenth</i>	1 <i>theoretical</i> 2 <i>practical</i>	Muscles of the Pharynx •Pharynx divisions •Palatine Tonsils •Waldeyer's Ring of Lymphoid Tissue	Pharynx	<i>lecture</i>	<i>Weekly and monthly exams</i>
<i>twentieth</i>	1 <i>theoretical</i> 2 <i>practical</i>	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	Larynx	<i>lecture</i>	<i>Weekly and monthly exams</i>

11.Course evaluation

Score distribution out of 100

12.5	First chapter
15	midyear
12.5	Second semester
60	ultimate

12.Learning and teaching resources

Required textbooks (methodology, if any)	
Main references (sources)	1 .Snell's Clinical Anatomy by Regions, 11th edition. Wolters Kluwer 2019 2 .Netter's Head and Neck Anatomy for Dentistry 3rd , edition. Elsevier 2017 3 .Gray's Atlas of Anatomy, 12th edition. Elsevier 2021
books and Recommended supporting references (scientific journals, reports....)	
Electronic references, Internet sites	

Laboratory sessions

No.	Title of the sessions	Hours
1	Anatomy of scalp	2
2	Anatomy of face part 1	2
3	Anatomy of face part 2	2
4	Anatomy of parotid region	2
5	Temporal, infratemporal fossa	2
6	muscles of mastication	2
7	Mandibular nerve	2
8	Maxillary artery	2
9	Pterygopalatine fossa	2
10	Maxillary nerve	2
11	Nasal cavity and paranasal sinuses	2
12	Tempromandibular joint (TMJ)	2
13	Orbital region and Muscles of the eye	2
14	Ophthalmic nerve, artery and vein	2
15	anatomy of eyeball	2
16	Anatomy of mouth(The Lips ,oral Cavity,Tongue)	2
17	The Palate	2
18	Superficial anatomy of neck	2
19	Triangles of neck	2
20	Arteries of head and neck (internal carotid artery)	2
21	External carotid artery	2
22	Subclavian artery	2
23	Veins of the Head and Neck (internal jugular vein, subclavian vein, and venus sinuses)	2
24	Anatomy of brain	2
25	Submandibular region	2
26	Anatomy of pharynx	2
27	Lymph drainage of head and neck	2
28	Anatomy of larynx	2
29	Root of neck	2
30	Cranial nerves	2
Total		60

Course description form

1.Course Name	
Biochemistry	
2.code of course	
BiCh202	
3. yea / Semester	
Annual / second	
4. description was prepared Date this	
2026-2025	
5. Available attendance . A	
presence	
6.Number of study hours (total)/number of units (total)	
6 / 120	
7. Name of the course administrator	
Tamara Alaa Hussein tamara.a.hussein@aliraqia.edu.iq	
8. objectives Course	
Objectives of the study subject	An introduction to biochemistry, clarifying its functions, the variable occurring in it, irregularities in its levels, its biological and . pathological implications, and met hods for measuring its levels
9.Teaching and learning strategies	
The strategy	1 Study of the vital activities that occur within the body - Understanding the variables that occur when concentrations of - · carbohydrates change and their relationship with diabe tes 2 Studying the relationship between proteins and their effects on - organ functions · Knowledge of fats, their composition, and their relationship to - the cell envelope 3 Focus on nucleic acids, vitamins, and hormones and their - relationship to human healt h 6.Knowing the normal values of vital compounds and following up on pathological conditions resulting from their disturbance 7.Concentrations. Causing kidney, liver, diabetes and other hereditary diseases

10.Course structure					
the week	hours	Required learning outcomes	Name of the unit or topic	Learning method	Evaluation method
First	2	Enzymes: Definition, Terminology, and Classification	Enzymes: Definition, Terminology, and Classification	<i>A theoretical lecture using Power Point</i>	<i>Daily and monthly exams the final and exam</i>
second	2	Mechanism of enzyme action	Mechanism of enzyme action	<i>A theoretical lecture using Power Point</i>	<i>Daily and monthly exams and the final exam</i>
third	2	Clinical significance of enzyme assays	Clinical significance of enzyme assays	<i>A theoretical lecture using Power Point</i>	<i>Daily and monthly exams and the final exam</i>
fourth	2	Vitamins, definition, classification	Vitamins, definition, classification	<i>A theoretical lecture using Power Point</i>	<i>Daily and monthly exams and the final exam</i>
Fifth	2	Digestion and absorption of carbohydrates, lipids ,and proteins	Digestion and absorption of carbohydrates, lipids ,and proteins	<i>A theoretical lecture using Power Point</i>	<i>Daily and monthly exams and the final exam</i>
sixth	2	Chemistry of carbohydrates	Chemistry of carbohydrates	<i>A theoretical lecture using Power Point</i>	<i>Daily and monthly exams and the final exam</i>
Seventh	2	Metabolism of Carbohydrates: part. part 1	Metabolism of Carbohydrates: part. part 1	<i>A theoretical lecture using Power Point</i>	<i>Daily and monthly exams and the final exam</i>
Eighth	2	Metabolism of Carbohydrates :part 2	Metabolism of Carbohydrates :part 2	<i>A theoretical lecture using Power Point</i>	<i>Daily and monthly exams and the final exam</i>
Ninth	2	Carbohydrates metabolism regulation	Carbohydrates metabolism regulation	<i>A theoretical lecture using Power Point</i>	<i>Daily and monthly exams and the final exam</i>
Tenth	2	Chemistry of Proteins and amino acids	Chemistry of Proteins and amino acids	<i>A theoretical lecture using Power Point</i>	<i>Daily and monthly exams and the final exam</i>
eleventh	2	Metabolism of Proteins and amino acids	Metabolism of Proteins and amino acids	<i>A theoretical lecture using Power Point</i>	<i>Daily and monthly exams and the final exam</i>
twelveth	2	Metabolism of Protein and amino acid regulation	Metabolism of Protein and amino acid regulation	<i>A theoretical lecture using Power Point</i>	<i>Daily and monthly exams and the final exam</i>

Thirteenth	2	Metabolism of Protein and amino acid inherited disorder	Metabolism of Protein and amino acid inherited disorder	<i>A theoretical lecture using Power Point</i>	<i>Daily and monthly exams and the final exam</i>
<i>fourteenth</i>	2	Exam	Exam	<i>A theoretical lecture using Power Point</i>	<i>Daily and monthly exams and the final exam</i>
<i>Fifteenth</i>	2	Lipid :definition, classification	Lipid :definition, classification	<i>theoretical A lecture using Power Point</i>	<i>Daily and monthly exams and the final exam</i>
<i>sixteen</i>	2	Metabolism of Lipid: oxidation of Fatty Acids	Metabolism of Lipid: oxidation of Fatty Acids	<i>A theoretical lecture using Power Point</i>	<i>Daily and monthly exams and final the exam</i>
<i>seventeenth</i>	2	Biosynthesis of Fatty Acids	Biosynthesis of Fatty Acids	<i>A theoretical lecture using Power Point</i>	<i>Daily and monthly exams and the final exam</i>
<i>eighteen</i>	2	Integration of metabolism of carbohydrates, lipid, and Proteins	Integration of metabolism of carbohydrates, lipid, and Proteins	<i>A theoretical lecture using Power Point</i>	<i>Daily and monthly exams and the final exam</i>
<i>nineteenth</i>	2	Metabolism of Purines and pyrimidines	Metabolism of Purines and pyrimidines	<i>A theoretical lecture using Power Point</i>	<i>Daily and monthly exams and the final exam</i>
<i>twentieth</i>	2	Metabolism of Purines and pyrimidines disorder	Metabolism of Purines and pyrimidines disorder	<i>A theoretical lecture using Power Point</i>	<i>Daily and monthly exams and the final exam</i>
<i>Twenty – first</i>	2	Nucleic Acids Definition and Protein synthesis	Nucleic Acids Definition and Protein synthesis	<i>A theoretical lecture using Power Point</i>	<i>Daily and monthly exams and the final exam</i>
<i>Twenty - second</i>	2	Hormone definition, classification	Hormone definition, classification	<i>A theoretical lecture using Power Point</i>	<i>Daily and monthly exams and the final exam</i>
<i>Twenty - third</i>	2	Hormone disorder	Hormone disorder	<i>A theoretical lecture using Power Point</i>	<i>Daily and monthly exams and</i>

					<i>the final exam</i>
<i>Twenty - fourth</i>	2	Acid-base balance	Acid-base balance	<i>A theoretical lecture using Power Point</i>	<i>Daily and monthly exams and the final exam</i>
<i>Twenty – fifth</i>	2	Trace elements disorder	Trace elements disorder	<i>A theoretical lecture using Point Power</i>	<i>Daily and monthly exams and the final exam</i>
<i>-twenty sixth</i>	2	Salivary secretion(saliva), Pancreatic juice	Salivary secretion(saliva), Pancreatic juice	<i>A theoretical lecture using Power Point</i>	<i>Daily and monthly exams and the final exam</i>
<i>Twenty - seventh</i>	2	Electrolytes	Electrolytes	<i>A theoretical lecture using Power Point</i>	<i>Daily and monthly exams and the final exam</i>
<i>Twenty- eighth</i>	2	Live Function Test	Live Function Test	<i>A theoretical lecture using Power Point</i>	<i>Daily and monthly exams and the final exam</i>
<i>Twenty - ninth</i>	2	Kidney Function Test	Kidney Function Test	<i>A theoretical lecture using Power Point</i>	<i>Daily and monthly exams and the final exam</i>
Thirty	2	Exam	Exam	<i>A theoretical lecture using Power Point</i>	<i>Daily and monthly exams and the final exam</i>

11.Course evaluation

Score distribution out of 100

12.5	First ch apter
15	midyear
12.5	Second semester
60	ultimate

12.Learning and teaching resources

Required textbooks (methodology, if any)	
Main references (sources)	Chemical Bases of life, Textbook of Biochemistry, Gener Chemistry principles and applications of Inorganic, Organ and Biochemistry

Recommended supporting books and references (scientific journals, reports....)	
Electronic references, Internet sites	

Laboratory sessions

Lab number	Study unit title	Hours
1	Lab safety	2
2	Sample collection-1	2
3	Sample collection -2	2
4	Spectrophotometer	2
5	Standard curve	2
6	Blood glucose+ HbA1c	2
7	Total Protein	2
8	Albumin+ Globulin	2
9	Troponin	2
10	Liver function test (Bilirubin)	2
11	Alkaline Phosphatase	2
12	Transaminases (ALT&AST)	2
13	Lipid in blood (cholesterol & lipoprotein)	2
14	Triglyceride	2
15	Kidney function Test (urea)	2
16	Serum creatinine & creatinine clearness	2
17	General Urine Analysis-1	2
18	General Urine Analysis-2	2
19	Uric acid	2
20	Amylase in serum+ saliva	2
21	creatine phosphokinase	2
22	lactate Dehydrogenase	2
23	serum calcium	2
24	serum phosphorus	2
25	serum Na	2
26	serum K	2
27	serum Iron	2
28	Vitamin D	2
29	Vitamin C	2
30	Acid phosphatase.	2
Total		60

Course description form

1. Course Name						
Oral histology						
2. Code Course						
OrHe203						
3. year / Semester						
Annual / second						
4. description was prepared Date this						
2026-2025						
5. Available attendance . A						
presence						
6. Number of study hours (total)/number of units (total)						
120/6						
7. Name of the course administrator						
Ru'aa Salim Atiwi Ibrahim — Assist. Lecturer — (Practical) — roaa.s.otaiwi@aliraqia.edu.iq						
8. objectives Course						
Objectives of the study subject			1. Outline the basic components of the enamel, dentin, and pulp 2. Review the histology of the components of the periodontium. 3. Identify the varying divisions and functions of the oral mucosa.			
9. Teaching and learning strategies						
The strategy			1. To acquire an understanding of how cells, tissues and organs develop and function. 2. Outline the basic components of the enamel, dentin, and pulp. 3. Review the histology of the components of the periodontium. 4. Identify the varying divisions and functions of the oral mucosa. 5. Differentiate between the histology and salivary composition of the major and minor salivary glands.			
10. Course structure						
the week			Required learning outcomes	Name of the unit or topic	Learning method	Evaluation method
First	2		Embryogenesis: first week, ovulation, fertilization and implantation	Embryogenesis: first week, ovulation, fertilization and implantation	<i>Theoretical lecture Using power point</i>	<i>Short semester year -i and final exam</i>

second	2	2nd week,Bilaminar germ layer	2nd week,Bilaminar germ layer	<i>Theoretical lecture Using power point</i>	<i>Short, semester, year -mid and final exams</i>
third	2	3rd week. week trilaminar germ layer: gastrulation and nerveulation	3rd week. week trilaminar germ layer: gastrulation and nerveulation	<i>Theoretical lecture Using power point</i>	<i>Short, semester, year -mid and final exams</i>
fourth	2	(Development of head and neck(pharyngeal arch,pouch & cleft	(Development of head and neck(pharyngeal arch,pouch & cleft	<i>Theoretical lectur Using power point</i>	<i>Short, semester, year -mid and final exams</i>
Fifth	2	Development of face. face and anomalies	Development of face. face and anomalies	<i>Theoretical lecture Using power point</i>	<i>Short, semester, year -mid and final exams</i>
sixth	2	Development of tongue and anomalies	Development of tongue and anomalies	<i>Theoretical lecture Using power point</i>	<i>Short, semester, year -mid and final exams</i>
Seventh	2	Development of palate and anomalies	Development of palate and anomalies	<i>Theoretical lecture Using power point</i>	<i>Short, semester, year -mid and final exams</i>
Eigth	2	Slide preparation	Slide preparation	<i>Theoretical lecture Using power point</i>	<i>Short, semester, year -mid and final exams</i>
Ninth	2	Tooth development and development disturbances of teeth	Tooth development and development disturbances of teeth	<i>Theoretical lecture Using power point</i>	<i>Short, semester, year -mid and final exams</i>
Tenth	2	Dentinogenesis and dentin structure	Dentinogenesis and dentin structure	<i>Theoretical lecture Using power point</i>	<i>Short, semester, ye ar -mid and final exams</i>
eleventh	2	amelogenesis, Enamel structures	amelogenesis, Enamel structures	<i>Theoretical lecture Using power point</i>	<i>Short, semester, year -mid and final exams</i>
twelveth	2	Clinical consideration for dentist and enamel	Clinical consideration for dentist and enamel	<i>Theoretical lecture Using power point</i>	<i>Short, semester, year -mid</i>

					<i>and final exams</i>
Thirteenth	2	Dental Pulp	Dental Pulp	<i>Theoretical lecture Using power point</i>	<i>Short, semester, year -mid and final exams</i>
fourteenth	2	Cementum and clinical consideration	Cementum and clinical consideration	<i>Theoretical lecture Using power point</i>	<i>Short, semester, year -mid and final exams</i>
Fifteenth	2	Root formation& Cementogenesis	Root formation& Cementogenesis	<i>Theoretical lecture Using power point</i>	<i>Short, semester, year -mid and final exams</i>
sixteen	2	Periodontal ligaments	Periodontal ligaments	<i>Theoretical lecture Using power point</i>	<i>Short, semester, year -mid and final exams</i>
seventeenth	2	Principles fiber of pdl and gingival fibres	Principles fiber of pdl and gingival fibres	<i>Theoretical lecture Using power point</i>	<i>Short, semester, year -mid and final exams</i>
eighteen	2	Alveolar bone. bone	Alveolar bone. bone	<i>Theoretical lecture Using power point</i>	<i>Short, semester, year -mid and final exams</i>
nineteenth	2	3. Bone formation and resorption	Bone formation and resorption	<i>Theoretical lecture Using power point</i>	<i>Short, semester, year -mid and final exams</i>
twentieth	2	4. Proteins involve. involve in mineralization of bone. bone and dentin	Proteins involve. involve in mineralization of bone. bone and dentin	<i>Theoretical lecture Using power point</i>	<i>Short, semester, year -mid and final exams</i>
Twenty – first	2	Oral mucosa and their types	Oral mucosa and their types	<i>Theoretical lecture Using power point</i>	<i>Short, semester, year -mid and final exams</i>
Twenty - second	2	Gingiva and dentogingival junction	Gingiva and dentogingival junction	<i>Theoretical lecture Using power point</i>	<i>Short, semester, year -mid and final exams</i>

<i>Twenty - third</i>	2	Eruption of teeth	Eruption of teeth	<i>Theoretical lecture Using power point</i>	<i>Short, semester, year -mid and final exams</i>
<i>Twenty - fourth</i>	2	Shedding of teeth	Shedding of teeth	<i>Theoretical lecture Using power point</i>	<i>Short, semester, year -mid and final exams</i>
<i>Twenty – fifth</i>	2	Salivary gland	Salivary gland	<i>Theoretical lecture Using power point</i>	<i>Short, semester, year -mid and final exams</i>
<i>-twenty sixth</i>	2	Salivary proteins	Salivary proteins	<i>Theoretical lecture Using power point</i>	<i>Short, semester, year -mid and final exams</i>
<i>Twenty - seventh</i>	2	TMJ	TMJ	<i>Theoretical lecture Using power point</i>	<i>Short, semester, year -mid and final exams</i>
<i>Twenty- eighth</i>	2	Maxillary sinus	Maxillary sinus	<i>Theoretical lecture Using power point</i>	<i>Short, semester, year -mid and final exams</i>
<i>Twenty - ninth</i>	2	Histochemistry	Histochemistry	<i>Theoretical lecture Using power point</i>	<i>Short, semester, year -mid and final exams</i>
Thirty	2	Age changes of soft and hard. hard tissues	Age changes of soft and hard. hard tissues	<i>Theoretical lecture Using power point</i>	<i>Short, semester, year -mid and final exams</i>

11.Course evaluation	
Score distribution out of 100	
12.5	First chapter
15	midyear
12.5	Second semester
60	ultimate

12.Learning and teaching resources	
Required textbooks (methodology, if any)	O RAL HISTOLGY TEXT BOOK
Main references (sources)	
Recommended supporting books and).... references (s cientific journals, reports	
Electronic references, Internet sites	

Laboratory sessions			
Lab.No	Study unit title	Presentation	Hours
1	first week of development ovulation and implantation	data show slides	2h
2	Second week of development: bilaminar germ layer	data show	2h
3	3rd week trilaminar germ layer: gastrulation and neurulation	Video presentation	2h
4	Development of head and neck(pharyngeal arch,pouch & cleft)	data show	2h
5	Development of face and anomalies	data show	2h
6	Development of tongue and anomalies	data show	2h
7	Development of palate and anomalies	data show	2h
8	Slide preparation	data show	2h
9	Tooth development	data show& microscopic slides	2h
10	Dentinogenesis and dentin structure	data show& microscopic slides	2h
11	amelogenesis and enamel structure	data show& microscopic slides	2h
12	Clinical consideration for dentin and enamel	data show	2h
13	Dental Pulp	data show& microscopic slides	2h

14	Cementum	data show& microscopic slides	2h
15	Root formation & cementogenesis	data show& microscopic slides	2h
16	PDL	data show& microscopic slides	2h
17	PDL fiber & gingival fiber	data show& microscopic slides	2h 30
18	Alveolar bone	data show& microscopic slides	2h
19	Bone formation and resorption	data show& microscopic slides	2h
20	mineralization of bone and dentin	data show& microscopic slides	2h
21	Oral mucosa	data show& microscopic slides	2h
22	Gingiva and dentogingival junction	data show& microscopic slides	2h
23	Eruption of teeth	data show& microscopic slides	2h
24	Shedding of teeth	data show& microscopic slides	2h
25	Salivary gland	data show& microscopic slides	2h
26	Salivary proteins	data show	2h
27	TMJ	data show	2h
28	Maxillary sinus	data show	2h
29	Histochemistry	data show	2h
30	Changes in dental hard & soft tissue	data show	2h
Total		60	

Course description form

1.Course Name					
General histology					
2. Code Course					
GeHi204					
3. yea / Semester					
Annual / second					
4. description was prepared Date this					
2026-2025					
5. Available attendance . A					
presence					
6.) Number of study hours tal)/number of units (total					
6 / 120					
7.) if more than one name is mentioned Name of the course administrator					
Ammar Ismail Jabbar ammar.i.jabbar@aliraqia.edu.iq					
8. objectives Course					
Objectives of the study subject			Learn methods of tissue sectioning and diagnosing pathological conditions, and the student becomes familiar with the different tissues of the body		
The student acquires knowledge of the scientific terminology used in the theoretical subject 1. The student learns about the different types of materials and devices used in the field of histology 2.Enhancing student confidence to deal with all types of samples 3. . s knowledge of the importance and functions of tissues' The student Strengthening the principle of participation by a group of students to discuss the types of tissues and their location					
9.Course structure					
the week	hours	Required learning outcomes	Name of the unit or topic	Learning method	Evaluation method
First	2 Theoretical practical 2	Cells, Basic Tissue	Cells, Basic Tissue	lecture	and Weekly monthly exams
second	2 Theoretical practical 2	Epithelial Tissue	Epithelial Tissue	lecture	and Weekly monthly exams

third	2 Theoretical practical 2	Connective Tissue	Connective Tissue	lecture	and Weekly monthly exams
fourth	2 Theoretical practical 2	Respiratory System: conducting portion. portion	Respiratory System: conducting portion. portion	lecture	and Weekly monthly exams
Fifth	2 Theoretical practical 2	Respiratory System: respiratory portion. portion	Respiratory System: respiratory portion. portion	lecture	and Weekly monthly exams
sixth	2 Theoretical practical 2	Urinary System: kidney nephrons, collecting tubes and ducts	Urinary System: kidney nephrons, collecting tubes and ducts	lecture	and Weekly monthly exams
Seventh	2 Theoretical practical 2	Urinary System: ureter, urinary bladder, and male. male and female urethra	Urinary System: ureter, urinary bladder, and male. male and female urethra	lecture	and Weekly monthly exams
Eigth	2 Theoretical practical 2	Integration System: Skin: epidermis, dermis	Integration System: Skin: epidermis, dermis	lecture	and Weekly monthly exams
Ninth	2 Theoretical practical 2	Integration System: skin. skin glands, hair, and nails	Integration System: skin. skin glands, hair, and nails	lecture	and Weekly monthly exams
Tenth	2 Theoretical 1 practical 2	Hemopoiesis: bone. bone marrow	Hemopoiesis: bone. bone marrow	lecture	and Weekly monthly exams
eleventh	2 Theoretical practical 2	Hemopoiesis: blood. blood cells	Hemopoiesis: blood. blood cells	lecture	and Weekly monthly exams
twelveth	2 Theo retical practical 2	Circulatory System	Circulatory System	lecture	and Weekly monthly exams
Thirteenth	2 Theoretical practical 2	Circulatory System	Circulatory System	lecture	and Weekly monthly exams
<i>fourteenth</i>	2 Theoretical practical 2	Lymphoid System	Lymphoid System	lecture	and Weekly monthly exams
<i>Fifteenth</i>	2 Theoretical practical 2	Lymphoid System	Lymphoid System	lecture	and Weekly monthly exams
<i>sixteen</i>	2 Theoretical practical 2	Nervous System	Nervous System	lecture	and Weekly monthly exams
<i>seventeenth</i>	2 Theoretical practical 2	Nervous System	Nervous System	lecture	and Weekly monthly exams
<i>eighteen</i>	2 Theoretical practical 2	Endocrine System	Endocrine System	lecture	and Weekly monthly exams

<i>nineteenth</i>	2 Theoretical practical 2	Endocrine System	Endocrine System	lecture	and Weekly monthly exams
<i>twentieth</i>	2 Theoretical practical 2	Endocrine System	Endocrine System	lecture	and Weekly monthly exams
<i>Twenty – first</i>	2 Theoretical practical 2	Digestive System	Digestive System	lecture	and Weekly monthly exams
<i>Twenty - second</i>	2 Theoretical practical 2	Digestive System	Digestive System	lecture	and Weekly monthly exams
<i>Twenty - third</i>	2 Theoretical practical 2	Digestive System	Digestive System	lecture	and Weekly monthly exams
<i>Twenty - fourth</i>	2 Theoretical practical 2	Digestive System	Digestive System	lecture	and Weekly monthly exams
<i>Twenty – fifth</i>	2 Theoretical practical 2	Male Reproductive System	Male Reproductive System	lecture	and Weekly monthly exams
<i>-twenty sixth</i>	2 Theoretical practical 2	Male Reproductive System	Male Reproductive System	lecture	and Weekly monthly exams
<i>Twenty - seventh</i>	2 Theoretical practical 2	Female Reproductive System	Female Reproductive System	lecture	and Weekly monthly exams
<i>Twenty- eighth</i>	2 Theoretical practical 2	Female Reproductive System	Female Reproductive System	lecture	and Weekly monthly exams
<i>Twenty - ninth</i>	2 Theoretical practical 2	Special Sense Organs: eye	Special Sense Organs: eye	lecture	and Weekly monthly exams
Thirty	2 Theoretical practical 2	Special Sense Organs: ear. ear	Special Sense Organs: ear. ear	lecture	and Weekly monthly exams

10.Course evaluation

Score distribution out of 100

12.5	First chapter
15	midyear
12.5	Second semester
60	ultimate

11.Learning and teaching resources

) Required textbooks (methodology, if any	1.Jonquiere's Basic histology text Atlas
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	2.Difiore's Atlas of Histology 3.Histology A text and Atlas. Michael H. Ross
Main references (sources)	
Recommended supporting books and references (scientific journals, reports....)	
Electronic references, Internet sites	

Laboratory session

Lab number	Study unit title	Hours
1	Slides of basic types of tissue	2
2	Slides of types of epithelial tissue	2
3	Slides of types of blood cells in blood smears	2
4	Slides of larynx, trachea	2
5	Slides of lungs including bronchi and bronchioles	2
6	Slides of kidney	2
7	Slides of ureter, urinary bladder	2
8	Slides of layers of epidermis, dermis	2
9	Slides of skin glands, hair	2
10	Slides of bone marrow types	2
11	Slides of blood cells development	2
12	Slides of large artery (aorta), small artery	2
13	Slides of medium sized vein	2
14	Slides of lymph nodes, palatine tonsils	2
15	Slides of thymus, spleen	2
16	Slides of nerve fibers, spinal cord	2
17	Slides of ganglia, cerebrum, and cerebellum	2
18	Slides of pituitary gland, thyroid gland	2
19	Slides of parathyroid glands, adrenal glands	2
20	Slides of pineal gland, endocrine pancreas	2
21	Slides of lip, tongue, and salivary glands	2
22	Slides of esophagus, stomach	2
23	Slides of duodenum, ileum, and colon	2
24	Slides of appendix, liver, pancreas, and gallbladder	2
25	Slides of testes, duct of the epididymis	2
26	Slides of prostate gland, seminal vesicles, and penis	2
27	Slides of ovaries, corpus luteum, and uterus	2
28	Slides of placenta, vagina, and mammary glands	2
29	Slides of vertical section of cornea, retina	2
30	Slides of vertical section of internal ear	2

Course description form

1. Course Name					
Dental material					
2. Code Course					
DeMa205					
3. year Semester					
Annual/second					
4. description was prepared Date this					
2026-2025					
5. Available attendance . A					
presence					
6. Number of study hours (total)/number of units (total)					
4 / 90					
7. Name of the course administrator					
-: :Name					
8. objectives Course					
Objectives of the study subject			Learn the physical, chemical and mechanical properties of materials used , and learn the skills necessary for the correct handling and adaptation of		
9. Teaching and learning strategies					
The strategy		s identity' The student . 1 Various types of materials used in dentistry 2. Materials This is amazing with To deal necessary the information Giving - 3 And follow up mix from Materials Use practical And follow up Instructions Subject With it Pass that Interactions Interaction end to to reach			
10. Course structure					
the week			Required learning outcomes	Name of the unit or topic	Learning method
First		2	• Introduction to dental materials Physical, chemical and biological properties of dental materials	Introduction and physical properties of dental material	Giving the lecture
second		2	Mechanical properties	Mechanical properties	Giving the lecture

third	2	•Definition, requirements, types, •gypsum bonded investment •phosphate bonded investment - ethyl silicate bonded	Gypsum materials	Giving the lecture	Participation, attendance and examination
fourth	2		Gypsum materials	Giving the lecture	Participation, attendance and examination
Fifth	2	•Definition •Ideal properties of impression materials •Classification of impression materials ✓Non elastic impression materials ➤Impression plaster ➤Impression compound ➤Zinc oxide - eugenol - Elastomeric impression material	Impression materials	Giving the lecture	Participation, attendance and examination
sixth	2	Impression materials	Impression materials	Giving the lecture	Participation, attendance and examination
Seventh	2	Impression materials	Impression materials	Giving the lecture	Participation, attendance and examination
Eighth	2	Impression materials	Impression materials	Giving the lecture	Participation, attendance and examination
Ninth	2	Impression materials	Impression materials	Giving the lecture	Participation, attendance and examination
Tenth	2	•Definition, •Requirements, •classification of wax according to origin & melting point, - classification of wax according to uses, properties of dental waxes.	Waxes	Giving the lecture	, Participation attendance and examination
eleventh	2		Waxes	Giving the lecture	Participation, attendance and examination

twelveth	2	•Polymers and polymerization •Definition of polymer, co-polymer, cross-link polymer and Degree of polymerization •Factors which control structure and properties of polymer •Types of polymerization •Heat activated acrylic ✓Composition ✓Properties •Chemically activated resin ✓Composition ✓Properties •Light activated resin ✓Composition ✓Properties •Chemically activated resin compared to heat activated resins •Polymers used in dentistry Processing errors	Polymers	Giving the lecture	Participation, attendance and examination
Thirteenth	2	Polymers	Polymers	Giving the lecture	Participation, attendance and examination
fourteenth	2	•Factors affecting setting time, setting expansion, strength, storage and manipulation of gypsum products, and hygroscopic expansion	Investment materials	Giving the lecture	Participation, attendance and examination
Fifteenth	2	•Classification of dental cements •Definition Requirements	Cement materials	Giving the lecture	Participation, attendance and examination
sixteen	2	Definition •indication •Types Requirements	Temporary filling	Giving the lecture	Participation, attendance and examination
seventeenth	2	•Metallic denture base materials ✓Types of metal and metal alloys ✓Definition of alloy ✓Requirement of casting alloy ✓Application of dental alloy ✓classification of metal ✓classification of dental alloy	Metal and metal alloy	Giving the lecture	Participation, attendance and examination

		✓gold foil (advantage, disadvantages) ✓gold alloys ➤Composition Properties			
<i>eighteen</i>	2		<i>Metal and metal alloy</i>	<i>Giving the lecture</i>	<i>Participation, attendance and examination</i>
<i>nineteenth</i>	2	•Alternative of gold alloys ✓Metal ceramic alloys ➤Requirement ➤Types ✓Removable denture base alloys ➤Requirements ➤Types ✓Co-Cr alloy ➤Application ➤Composition ➤properties, ➤Advantages - Disadvantages	Metal and metal alloy	<i>Giving the lecture</i>	<i>Participation, attendance and examination</i>
<i>twentieth</i>	2	✓Titanium and Titanium alloys ➤Applications ➤Properties ✓Ni/Cr alloys ➤Composition ➤Indications Wrought stainless steel alloy	Metal and metal alloy	<i>Giving the lecture</i>	<i>Participation, attendance and examination</i>
<i>Twenty – first</i>	2	•Direct filling material ✓Definition - Factors causing loss of tooth substance ✓Requirement of an ideal filling material. ✓Classification of filling material ➤Anterior filling materials ✚ Disadvantages ✚ Composite filling materials composition and structure ✚ Types of composite ➤Posterior filling materials ✚Dental amalgam ▪Classification of amalgam alloys ▪Properties of set amalgam	<i>Filling materials</i>	<i>Giving the lecture</i>	<i>Participation, attendance and examination</i>

		■Shaping and finishing Mercury toxicity			
Twenty - second	2		Filling materials	Giving the lecture	Participation, attendance and examination
Twenty - third	2	Filling materials	Filling materials	Giving the lecture	Participation, attendance and examination
Twenty - fourth	2	Filling materials	Filling materials	Giving the lecture	Participation, attendance and examination
Twenty – fifth	2	Preventive materials	Preventive materials	Giving the lecture	Participation, attendance and examination
-twenty sixth	2	●Root canal filling materials (obturing materials)	Root canal filling materials (obturing materials)	Giving the lecture	Participation, attendance and examination
Twenty - seventh	2	Finishing and polishing material	Finishing and polishing material	Giving the lecture	Participation, attendance and examination
Twenty- eighth	2	●Definition ●Types ●Requirements ●Indication ●Soft liners ✓Types ✓Requirements ✓Indication - Properties	Relining material	Giving the lecture	Participation, attendance and examination
Twenty - ninth	2	Implant materials	Implant materials	Giving the lecture	Participation, attendance and examination
Thirty	2	Maxillofacial materials	Maxillofacial materials	Giving the lecture	Participation, attendance and examination

11.Course evaluation		
Score	Score distribution out of 100	
	12.5	First chapter
	15	midyear
	12.5	Second semester

	60	ultimate
12.Learning and teaching resources		
) methodology, if (Required textbooks		
Main references (sources)	Phillips applied dental material Restorative dental material Dental material their selection and use	
Recommended supporting books and references).... scientific journals, reports (		
sites Electronic references, Internet		

Laboratory sessions

No.	Title of lab.	Hours
1-	Introduction and physical properties of dental material	2
2-	Mechanical properties (stress strain curve)	2
3-	Showing different types of gypsum materials (plaster and stone)	2
4-	Steps of mixing plaster and demonstrate the steps of setting	2
5-	Impression plaster, demonstrate the manipulation of impression compound	2
6-	Zinc oxide impression material and agar impression demonstrate the mixing of zinc oxide impression	2
7-	Alginate impression (elastic impression) showing the trays used and the mixing of alginate and water according to manufacturer instructions	2
8-	Polysulphide, condensation and addition silicon\mixing of heavy body and light body	2
9-	Polyether, hybrid impression, digital impression	2
10-	Showing different types of wax (denture base plate, denture casting wax and others	2
11-	Demonstrate how to use wax material and its manipulation	2
12-	Introduction to polymers	2
13-	Different types of denture base materials(heat, cold and light activated polymers) demonstrate the mixing of polymer and monomer	2
14-	Thermoplastic polymers (flexible denture base material)	2
15-	Investment materials (showing the method of the investment)	2
16-	Introduction to cement materials	2
17-	Showing different types of cement materials and the method of mixing of cement	2
18-	Temporary filling (use and manipulation)	2
19-	Introduction to metal and metal alloy	2
20-	Showing the different types of metal and metal alloy	2
21-	Introduction to crown and bridge material	2
22-	Introduction to filling material	2
23-	Amalgam filling showing the amalgam capsules and mixing of amalgam	2
24-	Composite filing (chemical and light activated)	2
25-	Micro filled, hybrid, and nano-composite	2
26-	Demonstrate the setting of chemical and light activated composite filling material	2

27-	Showing different types of preventive materials (tooth pastes, gargles. Mouth wash fluoride varnishes and resin sealers)	2
28-	Demonstrate the obturating materials (Gutta percha, sealers) and endodontic instruments	2
29-	Finishing and polishing materials	2
30-	Relining materials	2
Total		60

Course description form

1. Course Name					
Prosthodontics					
2. Code Course					
Pros206					
3. yea / Semester					
Annual/second					
4. description was ared Date this					
2026-2025					
5. Available attendance . A					
presence					
6. Number of study hours (total)/number of units (total)					
6 / 150					
7. Name of the course administrator					
Ghassan Abdul-Hameed Naji — Prof. Dr. — (Theory & Practical) — dr_ghassan74@yahoo.com Ahmed Mahdi Hadi Musa — Lecturer Dr. — (Practical) — ahmed.m@aliraqia.edu.iq					
8. objectives Course					
Objectives of the study subject		the definition Teeth In a way general Being With a substance industry from More important Materials Which It will continue requester By studying it For a period four Years coming Teaching steps Laboratory the operation For industry The kit The complete one And training Practical inside Laborat ories Usage And adapt Materials The user in industry The kit			
9. Teaching and learning strategies					
The strategy		Providing the necessary information to deal with the materials involved in the den manufacturing process and the manufacture of complete dent ures . especially			
10. Course structure					
the week	hour s	Required learning outcomes	Name of the unit or topic	Learning method	Evalu ation

					meth od
First	2	• Complete denture ✓objective of complete denture ✓General Consideration in complete denture construction - Complete denture component parts	Introduction	<i>Theoretical lecture using PowerPoint</i>	<i>Short, semester, year -mid and final exams</i>
second	2	• Anatomical landmarks ✓Maxillary arch anatomical landmarks ➤Supporting structures ➤Limiting structures - Relief areas. areas	Anatomical landmarks	<i>Theoretical lecture using PowerPoint</i>	<i>Short, semester, year -mid and final exams</i>
third	2	• Anatomical landmarks ✓Mandibular arch anatomical landmarks ➤Supporting structures ➤Limiting structures - Relief areas. areas	Anatomical landmarks	<i>Theoretical lecture using PowerPoint</i>	<i>Short, semester, year -mid and final exams</i>
fourth	2	• Impression tray - Definition • Parts of the impression tray • Types of tray • Stock tray – Definition • Types of stock. stock trays Factors effect in selection of stock. stock tray	Complete Denture Impression	<i>Theoretical lecture using PowerPoint</i>	<i>Short, semester, year -mid and final exams</i>
Fifth	2	• 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	<i>Theoretical lecture using PowerPoint</i>	<i>Short, semester, year -mid and final exams</i>
sixth	2	• Dental impression. impression - Definition • Complete denture impression - Definition • Objective of impression making • Primary impression. impression - Definition • Materials used for making primary impression • Primary cast - Definition • Production of study cast • Secondary impression.	Complete Denture Impression	<i>Theoretical lecture using PowerPoint</i>	<i>Short, semester, year -mid final and exams</i>

		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			
Seventh	2	• Record base. base - Definition • Requirements of record base Types of materials used in construction of record base	Record Base	<i>Theoretical lecture using PowerPoint</i>	<i>Short, semester, year -mid and final exams</i>
Eighth	2	• Occlusion rims - Definition • Requirements of occlusion rim • Materials used in construction of occlusion rim Measurements of maximum occlusion rim • Measurements of mandibular occlusion rim • Uses of occlusion rim • Occlusal plane. plane Fox – bite. bite	Occlusion Rims	<i>Theoretical lecture using PowerPoint</i>	<i>Short, semester, year -mid and final exams</i>
Ninth	2	• Temporomandibular joint (TMJ) – Definition • Ligaments Muscles	Anatomy And Physiology Of Temporomandibular Joint	<i>Theoretical lecture using PowerPoint</i>	<i>Short, semester, year -mid and final exams</i>
Tenth	2	• Mandibular axes and mandibular movements • Knowledge of mandibular movements Mandibular movements	Anatomy And Physiology Of Temporomandibular Joint	<i>Theoretical lecture using PowerPoint</i>	<i>Short, semester, year -mid and final exams</i>
eleventh	2	• Types of jaw relation ✓ Vertical jaw relation ➤ Rest position. position ➤ Inter – occlusal distance ➤ Importance of vertical dimension ➤ Increased vertical dimension Decreased vertical dimension	Maxillomandibular relation	<i>Theoretical lecture using PowerPoint</i>	<i>Short, semester, year -mid and final exams</i>
twelfth	2	• Method of recording rest vertical dimension • Method of recording occlusal vertical dimension • Pre – extraction records	Methods Of Recording Vertical Relation	<i>Theoretical lecture using PowerPoint</i>	<i>Short, semester, year -mid and final exams</i>

		Methods without pre – extraction record			
Thirteenth	2	- Centric jaw relation ✓Importance of centric jaw relation ✓Methods of recording jaw relation ✓Factors that complicates centric jaw relation Methods of recording	Horizontal Jaw Relation	Theoretical lecture using PowerPoint	Short, semester, year -mid and final exams
fourteenth	2	- Dental articulator ✓Definition ✓Functions of articulator ✓Requirements of articulator Types of articulator	Dental Articulators (Classification & Digital computerized articulator programming)	Theoretical lecture using PowerPoint	Short, semester, year -mid and final exams
Fifteenth	2	- Face- bow ✓Definition ✓Parts of face. face – bow. bow ✓Types of face. face – bow. bow Important of the face – bow	Face – Bow	Theoretical lecture using PowerPoint	Short, semester, year -mid and final exams
sixteen	2	- Mounting ✓Definition ✓Preparation of articulator ✓Preparation of the casts and mounting the upper cast on CL II articulator ✓Mounting the lower cast Errors occurred during mounting	Mounting	Theoretical lecture using PowerPoint	Short, semester, year -mid and final exams
seventeenth	2	- 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 teeth	Selection Of Artificial Teeth	Theoretical lecture using PowerPoint	Short, semester, year -mid and final exams
eighteenth	2	✓Shade ✓Bucco-lingual width ✓Mesio-distal length ✓Occluso-lingival height ✓Occlusal form ✓Advantages of cusp form teeth Advantages of non- cusp form teeth	Selection Of Posterior Teeth	Theoretical lecture using PowerPoint	Short, semester, year -mid and final exams
nineteenth	2	Guideline of artificial teeth arrangement Arrangement of anterior teeth Arrangement of upper anterior teeth	Arrangement Of Artificial Teeth	Theoretical lecture using PowerPoint	Short, semester, year -mid and final exams

twentieth	2	• Curve of Spee • Compensatory curves • Arrangement of lower posterior teeth • Arrangement of upper posterior teeth Common errors in arrangement of teeth	Arrangement Of Posterior Teeth	Theoretical lecture using PowerPoint	Short, semester, year -mid and final exams
Twenty – first	2	• Waxing ✓Definition ✓Requirements of waxing the polish surfaces ✓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	Waxing And Carving	Theoretical lecture using PowerPoint	Short, semester, year -mid and final exams
Twenty - second	2	• Occlusion ✓Occlusion of complete denture ✓Centric occlusion Centric relation	Complete Denture Occlusion	Theoretical lecture using PowerPoint	Short, semester, year -mid and final exams
Twenty - third	2	✓Eccentric occlusion ✓Concepts of complete denture occlusion Try-in appointment	Complete Denture Occlusion	Theoretical lecture using PowerPoint	Short, semester, year -mid and final exams
Twenty - fourth	2	• Flasking of the denture Flasking techniques	Processing Of The Denture (Flasking)	Theoretical lecture using PowerPoint	Short, semester, year -mid and final exams
Twenty – fifth	2	• Causes of errors in occlusion • Selective grinding • Correction of occlusal errors • Disadvantages of intra -oral correction Advantages of extra. extra -oral correction	Occlusal Correction	Theoretical lecture using PowerPoint	Short, semester, year -mid and final exams
-twenty sixth	2	• Procedure of finishing • Grinding and cutting instruments • Polishing of complete denture • Principles of polishing Procedures of polishing	Finishing And Polishing Of Complete Denture	Theoretical lecture using PowerPoint	Short, semester, year -mid and final exams
Twenty - seventh	2	• Types of material used in repair • Causes of denture fracture • Types of repair Laboratory procedure for repairing fractured denture base. base	Repair Of Complete Denture	Theoretical lecture using PowerPoint	Short, semester, year -mid and final exams

<i>Twenty-eighth</i>	2	- Replacement of broken or missing tooth - Replacement of missing or lost part. part Requirement of repair	Repair Of Complete Denture	<i>Theoretical lecture using PowerPoint</i>	<i>Short, semester, year -mid and final exams</i>
<i>Twenty -ninth</i>	2	- Indication for relining or rebasing - Relining - Contraindications of relining and rebasing The impression techniques for relining and rebasing	Relining And Rebasing	<i>Theoretical lecture using PowerPoint</i>	<i>Short, semester, year -mid and final exams</i>
<i>thirty</i>	2	- Laboratory procedures for relining - Rebasing The chair – side line technology	Relining And Rebasing	<i>Theoretical lecture using PowerPoint</i>	<i>Short, semester, year -mid and final exams</i>

11.Course evaluation

Score distribution out of 100

12.5	First chapter
15	midyear
12.5	Secon d semester
60	ultimate

12.Learning and teaching resources

Required textbooks (methodology, if	
Main references (sources)	1-Syllabus of complete denture (text book of complete denture) 2-Dental laboratory technology for removable prosthodontics 3-Iraqi virtual library
Recommended supporting books and references (scientific journals,)... reports	
Electronic references, Internet sites	

Laboratory sessions

Lab no.	Study unit title	Hours
1	Clinical and laboratory steps of complete denture construction	4
2	Taking primary impression on metal mold by impression compound and beading and boxing and pouring by dental plaster	4
3	Pouring on rubber mold (upper and lower primary cast)	4
4	Description of anatomical landmarks (maxillary and mandibular arch)	4

5	Demonstration of making upper and lower special tray by cold cure Acrylic	4
6	Finishing and polishing of special tray and evaluation	4
7	Demonstration of taking final impression and construction of master cast	4
8	Evaluation of record base construction, finishing and polishing	4
9	Bite rims construction (upper and lower arch)	4
10	Demonstration of face bow and fox bite and description of types of jaw Relation	4
11	Description about the methods of recording vertical jaw relation	4
12	Description about the methods of recording horizontal jaw relation	4
13	Demonstration about the types of articulators, parts, its uses and action	4
14	Mounting of upper and lower casts on articulators	4
15	Mounting of upper and lower casts on articulators (continue) and evaluation of the student work	4
16	Description the methods of selection of anterior and posterior teeth for complete denture	4
17	Demonstration about arrangement of upper and lower anterior teeth	4
18	Arrangement of upper and lower anterior teeth (continue) and evaluation of the student work	4
19	Demonstration about arrangement of upper and lower posterior teeth	4
20	Arrangement of upper and lower posterior teeth(continue).	4
21	Arrangement of posterior teeth and carving of posterior palatal seal and evaluation of the student work	4
22	Demonstration about carving and waxing of upper complete denture.	4
23	Carving and waxing of lower complete denture (continue) and evaluation of the student work	4
24	Flasking and investment of the denture	4
25	Wax elimination, packing and curing of heat cure acrylic	4
26	Deflasking ,finishing and polishing of upper complete denture	4
27	Deflasking ,finishing and polishing of lower complete denture (continue)	4
28	Demonstration of selective grinding	4
29	Repair of fracture denture	4
30	Repair of missing tooth	4
Total		120

Course description form

1.Course Name					
General physiology					
2. Code Course					
Geph207					
3. yea / Semester					
Annual/second					
4. description was prepared Date this					
2026-2025					
5. Available attendance . A					
presence					
6.Number of study hours (total)/number of units (total)					
6 / 120					
7. Name of the course administrator					
Intisar Mansour Abdul-Rasoul Hassoun Al-Hakeem — Prof. Dr. — (Theory & Practical) — entissar.m.abdulrasool@aliraqia.edu.iq					
Marwa Ismail Abbas — Lecturer — (Theory & Practical) — marwa.i.abbas@aliraqia.edu.iq					
Hind Mohammed Hadi Muhsin — Assist. Lecturer — (Practical) — hind.m.hady@aliraqia.edu.iq					
8. objectives Course					
Objectives of the study subject		s knowledge of the most important physiological processes and organ functions 'The student			
9.Teaching and learning strategies					
The strategy	1- Study of cell science and methods of transport across the cell membrane 2- Study of body fluids 3-Study of blood physiology in terms of function, components and blood clotting mechanism 4- of blood types Study 5-Study the function of the circulatory system 6- Study of the function of the urinary system 7- base balance-Study of the physiology of the digestive system and acid 8-Study of nerve and muscle physiology 9- Study of the central and peripheral nervous system 10- Study of oral physiology 11- Study of endocrine glands and hormones 12- Study of the male and female reproductive systems 13-Regulating body temperature				
10.Course structure					
the week	hours	Required learning outcomes	Name of the unit or topic	Learning metho	Evaluation method

First	2	(Function organization of the human body, Cell physiology, Cell membrane, Cell components, Cell Junction)	Introduction	lecture	Test weekly or monthly
second	2	Body fluid (Type of body fluids, Intracellular and extracellular, Daily intake of water, Daily loss of body water, Constituents of extracellular and intracellular fluids, Major factors contribute to the movement of fluid, Specialized Fluids of the Body) Edema (Types of Edema, Causes of edema, Measurement of body fluid volume, Dehydration, Types of dehydration, Classification, Causes, Signs and Symptoms of Dehydrations)	Body fluid	lecture	Weekly or monthly exam
third	2	Homeostasis and Transport across cell membrane (Diffusion (passive), Carrier-mediated transport (passive or active), Vesicular transport).	Homeostasis and Transport across cell membrane	lecture	Weekly or monthly exam
fourth	2	ORAL CAVITY and Salivary Glands (Functions of Mouth, Salivary Glands (Structure, Development, Major glands, Minor glands, Clinical correlations, Regulation of Salivary Secretion, Factors Influencing Salivary Flow and Composition) (Mastication, Deglutition, Bolus Formation for Swallowing, Digestion) , (speech: Definition, Mechanism, Nervous Control, Applied Physiology)	ORAL CAVITY AND SALIVARY GLANDS	lecture	Weekly or monthly exam
Fifth	2	Salivary functions and Regulation of Salivary Secretion (Composition of Saliva, Saliva Components, Properties of Saliva, Functions of Saliva, Effect of Drugs and Chemicals on Salivary Secretion, Maintenance of Tooth integrity, The Diagnostic	Salivary functions and Regulation of Salivary Secretion	lecture	Weekly or monthly exam

		Applications of Saliva and forensic uses of saliva, Disadvantages/Limitations of Saliva)			
sixth	2	BLOOD (Composition of blood, Hematocrit, Plasma, Functions of blood), Red blood cells (Genesis of RBC, polycythemia, Anemia, Destruction of RBCs)	BLOOD	lecture	Weekly or monthly exam
Seventh	2	White Blood Cells (Types of WBC , Genesis of the leukocytes, Life span of the WBC, phagocytosis, Inflammation, Leukemia's, Leukopenia)	White Blood Cells	lecture	Weekly or monthly exam
Eighth	2	Hemoglobin (Formation of Hemoglobin , Iron Metabolism , Hb Compounds Destruction of Hb, The common. common causes of jaundice)	Hemoglobin	lecture	Weekly or monthly exam
Ninth	2	Blood groups (Agglutination, Agglutinins, The Rh Group, Formation of Anti-Rh, agglutinins, Erythroblastosis Fetalis , Effect of the Mother's Antibodies on the Fetus, Transfusion Reactions resulting from mismatched Blood Types , Nature of Antibodies)	Blood groups	lecture	Weekly or monthly exam
Tenth	2	Hemostasis and blood. blood coagulation (Vascular Spasm, Formation of a Platelet Plug, Mechanism of the Platelet Plug, Mechanism of Blood Coagulation, Prevention of Clotting in the Normal Vascular System, Prevention of Blood Coagulation outside the Body, Blood Disease)	Hemostasis and blood. blood coagulation	lecture	Weekly or monthly exam
eleventh	2	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)	Cardiovascular system: Blood vessels	lecture	Weekly or monthly exam

twelveth	2	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)	Cardiovascular system: Blood pressure	<i>lectur</i>	<i>Weekly or monthly exam</i>
Thirteenth	2	Cardiovascular system (Electrocardiogram, Hemorrhage, Circulatory Shock and Heart Failure, Cardiovascular Adjustments during Exercise)	Cardiovascular system	<i>a lecture</i>	<i>Weekly or monthly exam</i>
<i>fourteenth</i>	2	Respiratory system (Types of Respiration, Stages of Respiration, Respiratory tract, Non respiratory functions of respiratory tract, Mechanics of Pulmonary Ventilation, Types of Respiratory pressures, Factors causing and prevent collapsing tendency of lungs)	Respiratory system	<i>a lecture</i>	<i>Weekly or monthly exam</i>
<i>Fifteenth</i>	2	Respiratory system: Lung volumes and capacities (Compliance, Variation in Compliance, The resistance and the work of breathing, dead space, lung volume and lung capacity, ventilation, Respiratory Protective Reflexes Pulmonary function tests, Regulation of Respiration, The relationship between oral health and respiratory disease)	Respiratory system: Lung volumes and capacities	<i>a lecture</i>	<i>Weekly or monthly exam</i>
<i>sixteen</i>	2	Half-year Break	Half-year Break	<i>a lecture</i>	<i>Weekly or monthly exam</i>
<i>seventeenth</i> 2	2	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)	SPECIAL SENSATION: vision, Hearing, taste & smell	<i>a lecture</i>	<i>Weekly or monthly exam</i>

<i>eighteen</i>	2	Temperature of the Body (Normal body Temperatures, Physiological Variations of body temperature, Heat Balance, Heat gain or heat production in the body, Heat loss from the body, Insulator System of the Body, Blood flow to the skin from the body core provides heat transfer, Regulation of body temperature, Mechanisms to decrease or increase body temperature, Sympathetic "Chemical" Excitation of heat production)	Temperature of the Body	<i>a lecture</i>	<i>Weekly or monthly exam</i>
<i>nineteenth</i>	2	Urinary system (Parts of Renal system, The Kidney, Functions of kidneys, Components of kidney, Parenchyma of kidney, Nephron and Juxtaglomerular Apparatus, Renal corpuscle, Structure of renal corpuscle, Tubular portion of nephron, Collecting duct)	Urinary system	<i>a lecture</i>	<i>Weekly or monthly exam</i>
<i>twentieth</i>	2	Urinary system : Urine formation (Mechanism of urine formation, Glomerular Filtration, Pressure determining filtration, Tubular Reabsorption, Tubular secretion)	Urinary system: Urine formation	<i>a lecture</i>	<i>Weekly or monthly exam</i>
<i>Twenty – first</i>	2	Endocrine System (Introduction, Endocrine glands, Hormones, Nature of Hormones, Classification of hormones, Hormone Secretors, Hormonal action Hormone receptors, Synthesis and storage of hormones, Mechanism of hormonal function, Measurement of Hormone Concentrations in the Blood)	Endocrine System	<i>a lecture</i>	<i>Weekly or monthly exam</i>
<i>Twenty - second</i>	2	Major Endocrine Glands (Oral manifestations of endocrine dysfunction, Control Systems Involving Hypothalamus and Pituitary glands, The pituitary gland, Thyroid gland, Pancreas gland, Adrenal glands)	Major Endocrine Glands	<i>a lecture</i>	<i>Weekly or monthly exam</i>
<i>Twenty - third</i>	2	Digestive system (The Functions of the digestive, Structural layers of digestive,	Digestive system	<i>a lecture</i>	<i>Weekly or monthly exam</i>

		Stomach, Secretions of the Stomach, Regulation of Stomach Secretion , Mixing of Stomach Contents, Stomach Emptying			
<i>Twenty - fourth</i>	2	Digestive system (small intestine , Secretions of the Small Intestine, Movement in the Small Intestine, Liver, Functions of the Liver, Pancreatic Secretions, Regulation of Pancreatic Secretion, Large Intestine, Movement in the Large Intestine Digestion, Absorption, and Transport)	Digestive system	<i>a lecture</i>	<i>Weekly or monthly exam</i>
<i>Twenty – fifth</i>	2	Muscular system : Muscle structure (Types, Structure, Microscopic Structure, Muscle Physiology, Properties, Contraction and contractile elements, Tone, Electrical and Molecular Changes during Muscular Contraction)	Muscular system: Muscle structure	<i>a lecture</i>	<i>Weekly or monthly exam</i>
<i>-twenty sixth</i>	2	Muscular system : Tone , contraction (Molecular Changes During Muscular Contraction, Neuromuscular Junction- Neuromuscular Transmission and Blockers, Nutrition and Metabolism (Energy Requirements))	Muscular system: Tone , contraction	<i>a lecture</i>	<i>Weekly or monthly exam</i>
<i>Twenty - seventh</i>	2	Nervous System : Nerve impulse, synapses (Nervous System Division, Cranial nerves, Neuron and Neuroglia, Receptors, Nerve impulse, Synapse and Neurotransmitters)	Nervous System: Nerve impulse, synapses	<i>a lecture</i>	<i>Weekly or monthly exam</i>
<i>Twenty- eighth</i>	2	Nervous System (Reflex Activity, Somatosensory System and Somatomotor System, Physiology of Pain)	Nervous System	<i>a lecture</i>	<i>Weekly or monthly exam</i>
<i>Twenty - ninth</i>	2	Reproductive system : Aging & reproductive system (Male Reproductive System Female Reproductive System,	Reproductive system: Aging & reproductive system	<i>a lecture</i>	<i>Weekly or monthly exam</i>

		Meiosis, Aging and Reproductive system.			
Thirty	2	Aviation and Deep physiology (Body Response in high altitudes, physiological changes in the deep sea). Nutrition and metabolism (daily energy requirement, obesity and fitness)	Aviation and Deep physiology Nutrition and metabolism	a lecture	Weekly or monthly exam

11.Course evaluation		
Score distribution out of 100		
12.5	F	First chapter
15	m	midyear
12.5	S	Second semester
60	u	ultimate
12. teaching resources Learning and		
Required textbooks (methodology, if any)		
Main references (sources)	Human physiology	
Recommended supporting books and references).... scientific journals, reports (		
Electronic references, Internet sites		

Laboratory sessions

Lab number	Study unit title	Hours
1	Microscope	2
2	Collection of Blood Samples	2
3	Blood Smears	2
4	Functions of Saliva & Taste Sensation	2
5	Stimulation and collection of salivary secretion	2
6	Separation of blood samples	2
7	Differential WBCs	2
8	Total Count of WBCs	2
9	Total Count of RBCs	2
10	Blood groups	2
11	Estimation of Hemoglobin	2
12	Bleeding and clotting time	2
13	Self-Monitoring of blood glucose test	2
14	Measurement of blood pressure & pulse rate	2
15	Effect of exercise on blood pressure and respiratory rate	2
16	Mid Exam	2
17	Physiology of vision test	2
18	Physiology of hearing test	2

19	Physiology of Smell sensation	2
20	Measurement of body temperature	2
21	Thyroid function (Body mass index)	2
22	Thyroid function (Body mass index)	2
23	Resuscitation &Artificial respiration	2
24	Resuscitation &Artificial respiration	2
25	Physiology of Skeletal muscles	2
26	Physiology of Skeletal muscles	2
27	Physiology of Skeletal muscles	2
28	Examination of reflexes (Motor Function)	2
29	Seminars and examinations	2
30	Seminars and examinations	2
Total		60

Course description form

1.Course Name	
Baath crimes	
2. Code Course	
Baath208	
3. yea / Semester	
Annual/second	
4.Date this description was prepared	
2026-2025	
5. Availa ble attendance . A	
presence	
6.Number of study hours (total)/number of units (total)	
2 / 60	
7. Name of the course administrator	
Hassan Hadi Abd Al-Hamza — Lecturer — (Theory) — N/A	
8. objectives Course	
Objectives of the study subject	The Baath Crimes subject represents an introduction to the various crimes committed by the Baath regime in Iraq during its rule, which requires explaining concepts and definitions for the student to be knowledgeable and aware of what he is going through that is related to the curriculum subject, such as the concept of crime, its sections, and the international crimes that were sentenced by the leaders of the Baath regime in accordance with the court law. The Iraqi Supreme Criminal Court
9.Teaching and learning strategies	
The strategy	- 3 Study the categories of crimes- 2 - Study the concept of crimes . 1 Study the crimes of the - - 4 Study the types of international crimes- Baath regime according to the documentation of the law of the Study the decisions - 5 - Supreme Iraqi Criminal Court in 2005 Study the most prominent 6 - issued by the Supreme Criminal Court Study of 7 - cases and crimes heard by the Criminal Court psychological and social crimes, their effects and the most prominent Study of human rights 8 - violations of the Baathist regime in Iraq Study of political and military 9 - violations and crimes of authority Study of environmental crimes of the 10 - decisions and violations Baath regime in Iraq Study of crimes of mass graves 11 -
10.Course structure	

the week	hours	Required learning outcomes	Name of the unit topic or	Learning method	Evaluation method
First	2	<i>Definition of the concept the crime</i>	<i>Definition of the concept the crime</i>	<i>lecture</i>	<i>the exams</i>
second	2	<i>Crime departments</i>	<i>Crime departments</i>	<i>lecture</i>	<i>the exams</i>
third	2	<i>Types of international crimes</i>	<i>of Types international crimes</i>	<i>lecture</i>	<i>the exams</i>
fourth	2	<i>Crimes against humanity</i>	<i>Crimes against humanity</i>	<i>lecture</i>	<i>the exams</i>
Fifth	2	<i>Aggression crimes</i>	<i>Aggression crimes</i>	<i>lecture</i>	<i>the exams</i>
sixth	2			<i>lecture</i>	<i>the exams</i>
Seventh	2	<i>Genocide crimes</i>	<i>Genocide crimes</i>	<i>lecture</i>	<i>the exams</i>
Eighth	2	<i>Genocide crimes</i>	<i>Genocide crimes</i>	<i>lecture</i>	<i>the exams</i>
Ninth	2	<i>Genocide crimes</i>	<i>Genocide crimes</i>	<i>lecture</i>	<i>the exams</i>
Tenth	2	<i>Dujail massacre crime</i>	<i>Dujail massacre crime</i>	<i>lecture</i>	<i>the exams</i>
eleventh	2	<i>The crime of Anfal operations</i>	<i>The crime of Anfal operations</i>	<i>lecture</i>	<i>the exams</i>
twelveth	2	<i>The crime of executing merchants Iraqis</i>	<i>The crime of executing merchants Iraqis</i>	<i>lecture</i>	<i>the exams</i>
Thirteenth	2	<i>The crime of executing merchants Iraqis</i>	<i>The crime of executing merchants Iraqis</i>	<i>lectu re</i>	<i>the exams</i>
fourteenth	2	<i>Crimes Psychological and social</i>	<i>Crimes Psychological and social</i>	<i>lecture</i>	<i>the exams</i>
Fifteenth	2	<i>Mechanisms of psychological crimes</i>	<i>Mechanisms of psychological crimes</i>	<i>lecture</i>	<i>the exams</i>
sixteen	2	<i>Psychological effects of crimes</i>	<i>Psychological effects of crimes</i>	<i>lecture</i>	<i>the exams</i>
seventeenth	2	<i>The position of the Baathist regime Debt</i>	<i>The position of the Baathist regime Debt</i>	<i>lecture</i>	<i>the exams</i>
eighteen	2	<i>Violations of laws Iraqi</i>	<i>Violations of laws Iraqi</i>	<i>lecture</i>	<i>the exams</i>

nineteenth	2	Militarization of society	Militarization of society	lecture	the exams
twentieth	2	Violations of decisions Political and military	Violations of decisions Political and military	lecture	the exams
Twenty – first	2	Pictures of human rights violations	Pictures of human rights violations	lecture	the exams
Twenty - second	2	Violations of decisions Political and military	Violations of decisions Political and military	lecture	the exams
Twenty - third	2	-	-	lecture	the exams
Twenty - fourth	2	Military pollution And radiological	Military pollution And radiological	lecture	the exams
Twenty – fifth	2	Use of internationally prohibited weapons	Use of internationally prohibited weapons	lecture	the exams
-twenty sixth	2	Destroy cities and century Drying the marshes	Destroy cities and century Drying the marshes	lecture	the exams
Twenty - seventh	2	Mass grave crimes	Mass grave crimes	lecture	the exams
Twenty- eighth	2	Mass grave crimes	Mass grave crimes	lecture	the exams
Twenty - ninth	2	Mass grave sites	Mass grave sites	lecture	the exams
Thirty	2	the exam	the exam	lecture	the exams

11.Course evaluation

Score distribution out of 100						
12.5				First chapter		
15				midyear		
12.5				Second		
60				ultimate		

12.Learning and teaching resources

Required textbooks (methodology, if any)	
Main references (sources)	Books on internal and international crimes
Recommended supporting books and references).... scientific journals, reports (	

Electronic references, Internet sites	
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Course description form

1. Course Name	
Community dentistry	
2. Code Course	
CoDe301	
3. yea / Semester	
annual	
4. description was prepared Date this	
2026 / 2025	
5. Available attendance . A	
presence	
6. Number of study hours (total)/number of units (total)	
4/90	
7. Name of the course administ rator	
Bassam Abdul-Razzaq Abdul-Wahhab alsheakhlybassam@gmail.com	
8. objectives Course	
Objectives of the study subject	Introducing dental students to community dentistry and epidemiology. Community dentists work collaboratively with other health care providers, policy makers, and the community to improve oral health outcomes. On the other hand, oral epidemiology is the study of the distribution and determinants of diseases and conditions that affect the oral cavity and surrounding tissues. It involves the use of scientific research methods to investigate the incidence and prevalence of oral diseases, patterns of risk factors, and the effectiveness of treatment and preventive measures. Oral epidemiology plays a vital role in public health by guiding policy makers and health care providers in developing and implementing effective oral health programmes. Community dentistry and oral epidemiology together form the backbone of public health initiatives aimed at promoting oral health and preventing oral diseases. They are crucial in reducing the burden - oral diseases globally and improving the overall health and well of being of populations. Therefore, it is essential that policy makers and health care providers invest in these two areas of public health

			health to achieve universal oral health coverage and reduce . disparities			
9.Teaching and learning strategies						
The strategy		and understanding Knowledge-A s knowledge of methods for studying and 'The student classifying epidemics s knowledge of ways to provide therapeutic 'The student dental services to the commun ity s knowledge of methods for implementing 'The student statistics and statistics related to dentistry Ways to protect against infection Dental protection programs for schools Dental ethics				
10.Course structure						
the week			Required learning outcomes	of the Name unit or topic	Learning method	Evalua methoo
First	1		-Public health definition. -Dental public health definition. - Community Dentistry. - Dental public health practitioners. - Public health impact of dental disease. - Tools of dental public health. 1- Epidemiology. 2- Biostatistics. 3-Social sciences. 4-Principles of administration. 5- Preventive dentistry.	- Dental public health	lecture	Week and mont exar
second	1		- Steps in planning dental care for the patient - Steps in planning dental care for the community - Similarities between personal and community health care: - Differences between private dental practice and public health dentistry	-Dental public care	lecture	Week and mont exar
third	1		- Objectives of epidemiology. - Components of epidemiological study. - Essential steps in an epidemiological study. - Hypothesis. - Population at risk. -Morbidity. -	Epidemiology	lecture	Weekly mont exar

		Measurements of disease frequency. Epidemiological approach. - Measurement tools in epidemiology.			
fourth	1	Types of epidemiological studies: 1- Observational studies Types of observational studies - Descriptive studies. -Analytical studies. Case control studies Cohort studies Ecological studies.	Epidemiological studies	lecture	Weekly and monthly exams
Fifth	1	-Intervention Types of experimental studies	Experimental studies	lecture	Weekly exams
sixth	1	- Definition of dental caries - Epidemiology - Etiological factors of dental caries -Types of dental caries according to their anatomical (location) site. - Factors affecting epidemiology of dental caries	Epidemiology of dental caries	lecture	Weekly and monthly exams
Seventh	1	-Periodontal Diseases definition -Structure of the periodontal tissues - Epidemiology -Etiology of periodontal disease	Epidemiology of Periodontal Disease	lecture	Weekly and monthly exams
Eigth	1	- Types of cancers - Etiology of oral cancer - Constituents of tobacco smoke - Potentially malignant lesions - Levels of prevention for oral cancer - Rehabilitation after Oral Cancer	Epidemiology of Oral Cancer	lecture	Weekly and monthly exams
Ninth	1	- Index - Uses of dental index - Classification of indices	Dental indices	lecture	Weekly exams
Tenth	1	-DMF index -Principles in recording DMF index - Calculation of DMFT/DMFS - Dental care severity index - dmft index	Indices used for assessment of dental caries	lecture	Weekly and monthly exams
eleventh	1	Indices used for assessment of periodontal disease - Oral Hygiene Indices: - Gingival inflammation		lecture	Weekly and monthly exams

		indices - Periodontal indices			
twelveth	1	Indices for assessment of dental fluorosis	Dental fluorosis	lecture	Weekly and monthly exams
Thirteenth	1	- Data - Types of data - Methods of Data Collection -Sampling Technique -Types of sample design	Biostatistics	lecture	Weekly and monthly exams
fourteenth	1	-Methods of data presentation -The tabulation of data. 1 56 - The graphical representation of data	Data presentation	lecture	Weekly and monthly exams
Fifteenth	1	-Measures of central tendency -Measures of dispersion.	Measures of central tendency & dispersion	lecture	Weekly and monthly exams
sixteen	1	- History: - Sources of Fluoride - Water fluoridation - Types of fluoride	Fluoridation as a public health measure	lecture	Weekly and monthly exams
sev enteenth	1	Mechanism of action - Anti-caries effects of fluoride. Metabolism of fluoride.- -Dental Fluorosis -Side effects of fluoride	Fluoridation Mechanism and Effects	lecture	Weekly and monthly exams
eighteen	1	- 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	Occupational hazards in dentistry	lecture	Weekly and monthly exams
nineteenth	1	- Environment -Physical environment: - Biological environment: - Psychological environment - Environmental indicators	Environment and health	lecture	Weekly and monthly exams
twentieth	1	-Prevention and control of air pollution - Effects of radiation -Noise pollution	Effects of air pollution on health	lecture	Weekly and monthly exams

<i>Twenty – first</i>	1	- Purpose of School Health Program - Guidelines for an ideal school dental program - School dental survey - phases in school oral health program	School Dental Health Program	lecture	Weekly and monthly exams
<i>Twenty - second</i>	1	- Need - categories of need - Demand - Factors affecting dental demands	Treatment need and demand	lecture	Weekly and monthly exams
<i>Twenty - third</i>	1	- Manpower definition Dental health manpower planning -Steps in dental health manpower planning	- Dental manpower	lecture	Weekly and monthly exams
<i>Twenty - fourth</i>	1	Definition of ethics - Dentistry as a profession - Ethical principles	Ethics in dentistry	lecture	Weekly and monthly exams
<i>Twenty – fifth</i>	1	- Elderly people: - The main oral effects of aging - Pregnant women - Special Care Dentistry - Patients with special health care needs	Oral health care for special populations	lecture	Weekly and monthly exams
<i>-twenty sixth</i>	1	-Introduction - Application of forensic dentistry. -Bit marks - Person identification. - Dental identification	Forensic dentistry	lecture	Weekly and monthly exams
<i>Twenty - seventh</i>	1	-Introduction. - Dental auxiliary classification. *Non operator auxiliary. * Operating auxiliary. -Four handed relationship.	Dental auxiliary personal	lecture	Weekly and monthly exams
<i>Twenty- eighth</i>	1	-Introduction. -Elements (components) of primary health care. -Principles of primary health care. - Primary dental health care. -Community dental health services	Primary health care	lecture	Weekly and monthly exams
<i>Twenty - ninth</i>	1	-Introduction. -Concept of disease transmission. -The acquisition means of pathogens. -Transmission of infectious diseases.	Infection control	lecture	Weekly and monthly exams

		-Control of infectious diseases. -Personal barrier techniques. -Instrument processing(sterilization)			
Thirty	1	-Introduction. -Aims of health education. -Objective of health education. - Objective of dental health education. -Principle of health education. -Planning health education programmes.	Dental health education	lecture	Weekly and monthly exams

11.Course evaluation

Score distribution	of 100				
	12.5	First chapter			
	15	midyear			
	12.5	Second semester			
	60	ultimate			

12. Learning and teaching resources

Required textbooks (methodology, if any)	- Preventive and Community Dentistry Public Health Dentistry Third Edition. - A Textbook of Public Health Dentistry, CM Marya, JAYPEE BROTHERS MEDICAL PUBLISHERS (P) LTD,2011
) Main references (sources	BURT, Brian A.; EKLUND, Steven A. <i>Dentistry, dental practice, and the community-E-book</i> . Elsevier Health Sciences, 2005
Recommended supporting books and references (scientific journals, reports....)	HIREMATH, SS <i>Textbook of preventive and community dentistry</i> . Elsevier India, 2011
Electronic references, Internet sites	BURT, Brian A.; EKLUND, Steven A. <i>Dentistry, dental practice, and the community-E-book</i> . Elsevier Health Sciences, 2005

Clinical requirements

Lab number	Study unit title	Hours
1	Community dentistry	2
2	Patient's setting & examination	2
3	Clinical examination	2
4	Basic tooth numbering	2
5	Clinical examination	2
6	Indices	2

7	Dental caries	2
8	Theories of caries formation	2
9	Dental caries indices	2
10	Clinical examination	2
11	Clinical examination	2
12	Deciduous teeth	2
13	Clinical examination	2
14	Clinical examination	2
15	Prevention of dental caries / part 1	2
16	Prevention of dental caries / part 2	2
17	Fluoride	2
18	Periodontal diseases	2
19	Indices for plaque assessment	2
20	Clinical examination	2
21	Clinical examination	2
22	Indices for calculus assessment	2
23	Clinical examination	2
24	Clinical examination	2
25	Gingival disease indices	2
26	Clinical examination	2
27	Clinical examination	2
28	Periodontal diseases prevention	2
29	Tooth brushing	2
30	Clinic.....assistant	2
Total		60

Course description form

1.Course Name					
Dental Radiology					
2. Code Course					
DeRa302					
3. yea / Semester					
annual					
4. description was prepared Date this					
2026 / 2025					
5. Available attendance . A					
presence					
6.Number of study hours (total)/number of units (total)					
4/90					
7. Name of the course administrator					
Amal Ibrahim Mohammed Mustafa — Lecturer — (Theory) — dr.amaalibraheem@gmail.com					
8. objectives Course					
Objectives of the study subject		The goal of the program is to qualify dentists who are able ray -ray images, how to work on x-to read and diagnose x . machines correctly, and how to deal with radiation risks			
9.Teaching and learning strategies					
The strategy		Knowledge and understanding-A ray machines correctly-Enabling the student to use x- A1 Explain the importance of radiation protection and - A2 its risks Enabling the student to read and diagnose - A3 radiographs of various types oviding sufficient information about the latest types - A4 devices and diagnostic methods in the field of oral and axillofacial radiology			
10.Course structure					
the week	hours	learning Required outcomes	Name of the unit or topic	Learning method	Evaluation method

First	2	Fundamentals of radiology	Oral, maxillofacial, rays-x	Lectures using POWER POINT	-Short, mid year, semester and final exams. And seminars
second	2	Production & interaction of X-ray	Oral, maxillofacial, rays-x	Lectures using POWER POINT	-Short, mid year, semester and final exams. And seminars
third	2	X-ray film & processing cycle	Oral, maxillofacial, rays-x	Lectures using POWER POINT	-Short, mid year, semester and final exams. And seminars
fourth	2	Factors relating to the production of radiograph	Oral, maxillofacial, rays-x	Lectures using POWER POINT	-Short, mid year, semester and final exams. And seminars
Fifth	2	Ideal radiographic projections & artifacts	Oral, maxillofacial, rays-x	Lectures using POWER POINT	-Short, mid year, semester and final exams. And seminars
sixth	2	Hazards of X-radiation & its biological effects	Oral, maxillofacial, rays-x	Lectures using POWER POINT	-Short, mid year, semester and final exams. And seminars
Seventh	2	Protection from X-radiation in the clinic of radiography	Oral, maxillofacial, rays-x	Lectures using POWER POINT	-Short, mid year, semester and final exams. And seminars
Eighth	2	Intraoral techniques 1	Oral, maxillofacial, rays-x	Lectures using POWER POINT	-Short, mid year, semester and final exams. And seminars
Ninth	2	Intraoral techniques 2	Oral, maxillofacial, rays-x	Lectures using POWER POINT	-Short, mid year, semester and final exams. And seminars
Tenth	2	Darkroom	Oral, maxillofacial, rays-x	Lectures using POWER POINT	-Short, mid year, semester and final exams. And seminars
eleventh	2	Patient's management	Oral, maxillofacial, rays-x	Lectures using POWER POINT	-Short, mid year, semester and final

					exams. And seminars
twelveth	2	Localization techniques	Oral, maxillofacial, rays-x	Lectures using POWER POINT	-Short, mid year, semester and final exams. And seminars
Thirteenth	2	Radiographic survey	Oral, maxillofacial, rays-x	Lectures using POWER POINT	-Short, mid year, semester and final And . exams seminars
<i>fourteenth</i>	2	Viewing techniques (conventional & digital)	Oral, maxillofacial, rays-x	Lectures using POWER POINT	-Short, mid year, semester and final exams. And seminars
<i>Fifteenth</i>	2	Dental panoramic radiography (principals)	Oral, , maxillofacial rays-x	Lectures using POWER POINT	-Short, mid year, semester and final exams. And seminars
<i>sixteen</i>	2	Dental panoramic radiography (anatomy)	Oral, maxillofacial, rays-x	Lectures using POWER POINT	-Short, mid year, semester and final exams. And seminars
<i>se venteenth</i>	2	Introduction to normal radiographic anatomy	Oral, maxillofacial, rays-x	Lectures using POWER POINT	-Short, mid year, semester and final exams. And seminars
<i>eighteen</i>	2	Radiographic appearance of normal intraoral landmarks	Oral, maxillofacial, rays-x	Lectures using POWER POINT	-Short, mid year, semester and final exams. And seminars
<i>nineteenth</i>	2	Radiographic appearance of common diseases of teeth & supporting structure	Oral, maxillofacial, rays-x	Lectures using POWER POINT	-Short, mid year, semeste r and final exams. And seminars
<i>twentieth</i>	2	Extra oral radiography	Oral, maxillofacial, rays-x	Lectures using POWER POINT	-Short, mid year, semester and final exams. And seminars
<i>Twenty – first</i>	2	Digital imaging system	Oral, maxillofacial, rays-x	Lectures using POWER POINT	-Short, mid year, semester and final exams. And seminars

<i>Twenty - second</i>	2	Computed Tomography (theory & physics)	Oral, maxillofacial, rays-x	Lectures using POWER POINT	-Short, mid year, semester and final exams. And seminars
<i>Twenty - third</i>	2	Computed Tomography (clinical application in maxillofacial region).	Oral, maxillofacial, rays-x	Lectures using POWER POINT	-Short, mid year, semester and final exams. And seminars
<i>Twenty - fourth</i>	2	CBCT (theory & advantages over conventional CT).	Or al, maxillofacial, rays-x	Lectures using POWER POINT	-Short, mid year, semester and final exams. And seminars
<i>Twenty – fifth</i>	2	CBCT (clinical applications in maxillofacial region).	Oral, maxillofacial, rays-x	Lectures using POWER POINT	-Short, mid year, semester and final exams. And seminars
<i>-twenty sixth</i>	2	TMJ Radiography (normal & pathological)	Oral, maxillofacial, rays-x	Lectures using POWER POINT	-Short, mid year, semester and final exams. And seminars
<i>Twenty - seventh</i>	2	TMJ Imaging	Oral, , maxillofacial rays-x	Lectures using POWER POINT	-Short, mid year, semester and final exams. And seminars
<i>Twenty- eighth</i>	2	MRI (theory & physics)	Oral, maxillofacial, rays-x	Lectures using POWER POINT	-Short, mid year, semester and final exams. And seminars
<i>Twenty - ninth</i>	2	MRI (clinical applications)	Oral, maxillofacial, rays-x	Lectures using POWER POINT	-Short, mid year, semester and final exams. And seminars
Thirty	2	Radiography & Implantology	Oral, maxillofacial, rays-x	Lectures using POWER POINT	-Short, mid year, semester and final exams. And seminars

11.Course evaluation

Score distrib	ution	of 100			
	1	2.5	First chapter		
	1	5	midyear		
	1	2.5	Second		
	6	0	ultimate		

12.Learning and teaching resources

Required textbooks (methodology, if any)	WHITE, Stuart C.; PHAROAH, Michael J. <i>Oral radiology-E-Book: Principles and interpretation</i> . Elsevier Health Sciences, 2014
Main references (sources)	DENDY, Philip Palin; HEATON, Brian. <i>Physics for diagnostic radiology</i> . CRC press, 2011 .
Recommended supporting books and reference s (scientific journals, reports....)	THRALL, Donald E. <i>Textbook of Veterinary Diagnostic Radiology-E-Book</i> . Elsevier Health Sciences, 2017
Electronic references, Internet sites	THRALL, Donald E. <i>Textbook of Veterinary Diagnostic Radiology-E-Book</i> . Elsevier Health Sciences, 2017

Clinical requirements

Number	Title of clinical requirements	Hours
1	Fundamentals of radiology:component of x- ray machine and production of X-ray	2
2	X-ray film (types and indication)	2
3	Intraoral techniques(periapical, bite-wing and occlusal films)	2
4	Ideal radiograph	2
5	Land marks(maxilla, mandible)	2
6	Dental panoramic radiography(indication and anatomy)	2
7	CBCT (indication and anatomy)	2
8	Cephalometric (indication and anatomy)	2
9	Common disease (caries , PDL)	2
10	Cyst(odontogenic and nonodontogenic)	2
11	Clinical work	2
12	Clinical work	2
13	Clinical work	2
14	Clinical work	2
15	Clinical work	2
16	Clinical work	2
17	Clinical work	2
18	Clinical work	2
19	Clinical work	2
20	Clinical work	2
21	Clinical work	2
22	Clinical work	2
23	Clinical work	2
24	Clinical work	2
25	Clinical work	2
26	Clinical work	2
27	Clinical work	2
28	Clinical work	2
29	Clinical work	2
30	Clinical work	2
Total		60

Course description form

1.Course Name					
General pathology					
2. Code Course					
GePa303					
3. yea / Semester					
annual					
4. description was prepared Date this					
2026 / 2025					
5. Available attendance . A					
presence					
6.Number of study hours (total)/number of units (total)					
120 /6					
7. Name of the course administrator					
Karima Aakoul Munkhi Nafil — Prof. Dr. — (Theory & Practical) — kama18_akool@aliraqia.edu.iq					
8. objectiv es Course					
Objectives of the study subject		Preparing dentists who are able to know the important causes of various general diseases and study the diagnosis of various diseases and methods of using . different dyes to know these diseases and their causes			
9. and learning strategies Teaching					
The strategy		1)The ability to distinguish between different diseases 2)How to use dyes 3)Knowledge of textile cutting methods			
10.Course structure					
the week	hours	Required learning outcomes	Name of the unit or topic	Learning method	Evaluati on method
First	2	Introduction to pathology Clinical pathology Molecular pathology Cell damage reversible cell injury	General diseases General Pathology	Theoretical lectures PowerPoint	-Short, mid year, semester, final and seminar exams
second	2	Irreversible cell injury Deposits and pigmentation External and	General diseases General Pathology	Theoretical lectures PowerPoint	-Short, mid year, semester, final and seminar exams

		internal pigmentation			
third	2	Inflammation Acute inflammation Chronic pathology Chemical mediators	General diseases General Pathology	Theoretical lectures PowerPoint	-Short, mid year, semester, final and seminar exams
fourth	2	Healing and repair Healing of skin wound Healing of bone	General diseases General Pathology	Theoretical lectur es PowerPoint	-Short, mid year, semester, final and seminar exams
Fifth	2	Hemodynamic Disorders, Thromboembolic Disease, and Shock	General diseases General Pathology	Theoretical lectures PowerPoint	-Short, mid year, semester, final and seminar exams
sixth	2	Genetic	General diseases General Pathology	Theoretical lectures PowerPoint	-Short, mid year, semester, final and seminar exams
Seventh	2	Diseases of the Immune System Hypersensitivity Autoimmune diseases Transplantation	General diseases General Pathology	Theoretical lectures PowerPoint	-Short, mid year, semester, final and seminar exams
Eigth	2	Neoplasia benign and malignant tumors molecular basis of tumors	General diseases General Pathology	Theoretical lectures PowerPoint	-Short, mid year, semester, and final seminar exams
Ninth	2	Bacterial and viral infections	General diseases General Pathology	Theoretical lectures PowerPoint	-Short, mid year, semester, final and seminar exams
Tenth	2	Environmental and Nutritional Diseases	General diseases General Pathology	Theoretical lectures PowerPoint	-Short, mid year, semester, final and seminar exams
eleventh	2	Blood Vessels	General diseases General Pathology	Theoretical lectures PowerPoint	-Short, mid year, semester, final and seminar exams
twelveth	2	The Heart	Ge neral diseases General Pathology	Theoretical lectures PowerPoint	-Short, mid year, semester, final and seminar exams
Thirteenth	2	Red Blood Cell and Bleeding Disorders	General diseases General Pathology	Theoretical lectures PowerPoint	-Short, mid year, seme ster, final and seminar exams
<i>fourteenth</i>	2	Diseases of white blood cells	General diseases General Pathology	Theoretical lectures PowerPoint	-Short, mid year, semester, final and seminar exams
<i>Fifteenth</i>	2	Diseases of GIT	General diseases	Theoretical lectures	-Short, mid year, semester,

			General Pathology	PowerPoint	final and seminar exams
sixteen	2	diseases of liver,	General diseases General Pathology	Theoretical lectures PowerPoint	-Short, mid year, semester, final and seminar exams
seventeenth	2	pancreas and gallbladder	General diseases General Pathology	Theoretical lectures PowerPoint	-Short, mid year, semester, final and seminar exams
eighteen	2	Diseases of respiratory system	General diseases General Pathology	Theoretical lectures PowerPoint	-Short, mid year, semester, final and seminar exams
nineteenth	2	Bone diseases	General diseases General Pathology	Theoretical lectures PowerPoint	-Short, mid year, semester, final and seminar exams
twentieth	2	Kidney	General diseases General Pathology	Theoretical lectures PowerPoint	-Short, mid year, semester, final and seminar exams
Twenty – first	2	Urinary system	General diseases General Pathology	Theoretical lectures PowerPoint	-Short, mid year, semester, final and seminar exams

11.Course evaluation

out of 100	ore distribution				
	12.5		First chapter		
	15		midyear		
	12.5		Second	er	
	60		ultimate		

12.Learning and teaching resources

Required textbooks (methodology, if any)	Robin,s Basic Pathology
Main references (sources)	KUMAR, VINAY; ABBAS, Abul; ASTER, Jon C. (ed.). <i>Robbins basic pathology e-book</i> . Elsevier Health Sciences, 2017
Recommended supporting books and references (scientific journals, reports....)	KUMAR, VINAY; ABBAS, Abul; ASTER, Jon C. (ed.). <i>Robbins basic pathology e-book</i> . Elsevier Health Sciences, 2017
El ectronic references, Internet sites	KUMAR, VINAY; ABBAS, Abul; ASTER, Jon C. (ed.). <i>Robbins basic pathology e-book</i> . Elsevier Health Sciences, 2017

Laboratory Sessions

No	Laboratory sessions	Hours
1	Introduction to general pathology and biopsy	2
2	Power points slides	2

3	Power points and histopathological slides demonstrating fatty changes in liver and cloudy swelling in kidney The gross appearance of reversible cell injury	2
4	Power points and histopathological slides of coagulative necrosis in heart muscles and caseous necrosis in lung With explanation of gross appearance	2
5	Power points and histopathological slides of anthracosis of lung and hemosiderosis in liver With explanation of gross appearance	2
6	Power points and histopathological slides of amyloidosis in kidney, H With explanation of gross appearance & E. and congo-red stain	2
7	Power points and histopathological slides of acute appendicitis (appendix), acute osteomyelitis and lobar pneumonia (lung ,)	2
8	Power points and histopathological slides of chronic cholecystitis in gall bladder and With explanation of gross appearance osteomyelitis in bone	2
9	Power points and histopathological slides of keloid in skin and granulation tissue	2
10	Power points and histopathological slides of TB in lung and actinomycosis With explanation of gross appearance	2
11	Power points and histopathological slides of Sarcoidosis With explanation of gross appearance	2
12	Power points slides of CVC in lung and liver With explanation of gross appearance	2
13	Power points slides of blood vessels thrombosis	2
14	Power points and histopathological slides of lipoma, S.C papilloma of skin With explanation of gross appearance	2
15	Power points and histopathological slides of osteoma of the bone	2
16	Power points and histopathological slides of S.C. carcinoma and adeno carcinoma of the colon With explanation of gross appearance	2
17	Power points and histopathological slides of thyrotoxicosis of thyroid and hashimoto's thyroiditis in thyroid With explanation of gross appearance	2
18	Data show slides	2
19	Data show slides	2
20	Power points and histopathological slides of myocardial infarction of heart and atherosclerosis in blood vessels With explanation of gross appearance	2
21	Power points and histopathological slides of chronic gastritis in stomach and peptic ulcer With explanation of gross appearance	2
22	Power points and histopathological slides of liver cirrhosis and hepatocellular carcinoma With explanation of gross appearance	2
23	Power points and histopathological slides of emphysema in lung and chronic bronchitis in bronchus With explanation of gross appearance	2
24	Data show	2
25	Data show	2
26	Data show	2
27	Data show	2
28	Data show	2
29	Power points slides	2
30	Power points slides	2
Total		60

Course description form

1. Course Name						
Prosthodontics						
2. Code Course						
Pros304						
3. yea / Semester						
annual						
4. description was prepared Date this						
2026 / 2025						
5. Available attendance . A						
presence						
6.) Number of study hours (total)/number of units otal						
120 /5						
7. Name of the course administrator						
Ahmed Mahdi Hadi Musa — Lecturer Dr. — (Practical) — ahmed.m@aliraqia.edu.iq						
8. objectives Course						
Objectives of the study subject				This course aims for the student to gain prac experience in the field of manufacturing partial total dent ures, as well as dental implants, accor to the latest technologies in this field in order to . i the requirements of the labor market		
9. Teaching and learning strategies						
The strategy		- Training the student on how to examine and diagnose . medical condi tions - . Giving important information and treatment steps - Giving instructions and following up on the process of . making parts				
10. Course structure						
the week			Required learning outcomes	Name of the unit or topic	Learning method	Evaluati method
First	1		Introduction And Component Parts Of RPD	Dental industry	Theoretical lecture using the program Power point	Short semester
second	1		Terminology And Definitions	Dental industry	Theoretical lecture	Short sem ester

				using the program Power point	
third	1	Clinical And Laboratory Steps In RPD	Dental industry	Theoretical lecture using the program Power point	Short and semester exams
fourth	1	Classification Of Partially Edentulous Arches	Dental industry	Theoretical lecture using the program Power point	Short and semester exams
Fifth	1	Surveying	Dental industry	Theoretical lecture using the program Power point	Short and semester exams
sixth	1	Surveying (Continue)	Dental industry	Theoretical lecture using the program Power point	Short and semester exams
Seventh	1	Component Parts Of RPD -Major Connector	Dental industry	Theoretical lecture using the program Power point	Short and semester exams
Eighth	1	Maxillary Major Connector	Dental industry	Theoretical lecture using the program Power point	Short and semester exams
Ninth	1	Mandibular Major Connector	Dental industry	Theoretical lecture using the program Power point	Short and semester exams
Tenth	1	Minor Connector	Dental industry	Theoretical lecture using the program Power point	Short and semester exams
eleventh	1	Minor Connector(Continue)	Dental industry	Theoretical lecture using the program Power point	Short and semester exams
twelveth	1	Rest And Rest Seat	Dental industry	Theoretical lecture using the program Power point	Short and semester exams

Thirteenth	1	Retention And RPD Retainer	Dental industry	Theoretical lecture using the program Power point	Short and semester exams
<i>fourteenth</i>	1	Extra Coronal Direct Retainer In RPD	Dental industry	Theoretical lecture using the program Power point	Short and semester exams
<i>Fifteenth</i>	1	Intra Coronal Direct Retainer In RPD	Dental industry	Theoretical lecture using the program Power point	Short and semester exams
<i>sixteen</i>	1	Indirect Retainer	Dental industry	Theoretical lecture using the program Power point	Short and semester exams
<i>seventeenth</i>	1	Indirect Retainer (Continue)	Dental industry	Theoretical lecture using the program Power point	Short and semester exams
<i>eighteen</i>	1	Denture Base In RPD	Dental industry	Theoretical lecture using the program Power point	Short and semester exams
<i>nineteenth</i>	1	Stress Breaker In RPD	Dental industry	Theoretical lecture using the program Power point	Short and semester exams
<i>twentieth</i>	1	Principles Of RPD Designing	Dental industry	Theoretical lecture using the program Power point	Short and semester exams
<i>Twenty – first</i>	1	Block Out And Relief	Dental industry	Theoretical lecture using the program Power point	Short and semester exams
<i>Twenty - second</i>	1	Phases Of RPD Treatment	Dental industry	Theoretical lecture using the program Power point	Short and semester exams
<i>Twenty - third</i>	1	Duplication, Refractory Cast, Wax Pattern, Casting and Finishing	Dental industry	Theoretical lecture using the program	Short and semester exams

				Power point	
<i>Twenty - fourth</i>	1	Jaw Relation In RPD	Dental industry	Theoretical lecture using the program Power point	Short and semester exams
<i>Twenty – fifth</i>	1	Jaw Relation In RPD (Continue)	Dental industry	Theoretical lecture using the program Power point	Short and semester exams
<i>-twenty sixth</i>	1	Teeth Arrangement In RPD	Dental industry	Theoretical lecture using the program Power point	Short and semester exams
<i>Twenty - seventh</i>	1	TrialRPD	Dental industry	Theoretical lecture using the program Power point	Short and semester exams
<i>Twenty- eighth</i>	1	Types Of Metals Used For RPD	Dental industry	Theoretical lecture using the program Power point	Short and semester exams
<i>Twenty - ninth</i>	1	Acrylic RPD	Dental industry	Theoretical lecture using the program Power point	Short and semester exams
Thirty	1	Relining And Rebasing Of RPD	Dental industry	Theoretical lecture using the program Power point	Short and semester exams

11.Course evaluation

Score distrib	ution	of 100				
	1	2.5		First chapter		
	1	5		midyear		
	1	2.5		Second semester		
	6	0		ultimate		

12. Learning and teaching resources

Required textbooks (methodology, if any)	1-Text book of Removable Partial Prosthodontics (Sharad Gupta).
Main references (sources)	2-Dental: Laboratory Technology sponsored by WKKellogy Foundation
Recommended supporting books and).... references (scientific journals, reports	.3- McCracken's Removable Partial Denture
Electronic references, Internet sites	

Laboratory sessions

Lab number	Study unit title	Hours
1	Introduction to Removable Partial Dentures	3
2	Kennedy Classification	3
3	Cast Trimming	3
4	Surveying	3
5	Surveying	3
6	Wire Bending	3
7	Wire Bending	3
8	Acrylic Removable Partial Denture Design	3
9	Acrylic Removable Partial Denture Laboratory Procedures	3
10	Acrylic Removable Partial Denture Laboratory Procedures	3
11	Flexible Partial Denture Design	3
12	Flexible Partial Denture Laboratory Procedures	3
13	Flexible Partial Denture Laboratory Procedures	3
14	Flexible Partial Denture Laboratory Procedures	3
15	Principles of 2D Design for the Removable Partial Denture s	3
16	Principles of 2D Design for the Removable Partial Denture s	3
17	Principles of Drawing 2D Design for the Removable Partial Dentures	3
18	2D Design for Mandibular & Maxillary Arches	3
19	2D Design for Mandibular & Maxillary Arches	3
20	2D Design for Mandibular & Maxillary Arches	3
21	Drawing Removable Partial Denture 3D Design & CAD/CAM	3
22	Drawing Removable Partial Denture 3D Design & CAD/CAM	3
23	Types of Rests	3
24	Rest Seat Preparation	3
25	Block Out and Relief	3
26	Block Out and Relief	3
27	Duplication Of the Master Cast	3
28	Wax Pattern for the Removable Partial Denture Framework	3
29	Wax Pattern for the Removable Partial Denture Framework	3
30	Framework Fabrication	3
Total		90

Course description form

1.Course Name						
Oral Surgery						
2. Code Course						
OrSur305						
3. yea / Semester						
annual						
4. description was prepared Date this						
2026 / 2025						
5. Available attendance . A						
presence						
6.Number of study hours (total)/number of units (total)						
90 / 4						
7. Name of the course administrator						
Riam Abbas Ashour — Assist. Lecturer — (Theory) — riyam.a.ashour@aliraqia.edu.iq						
8. objectives Course						
Objectives of the study subject				1. Provide a comprehensive description of basic or surgery procedures 2 To provide information on advanced and . complex of the patient surgical management 3. Students learn how to deal with and manage complications		
9.Teaching and learning strategies						
The strategy		s knowledge of the mechanism of surgical and 'The student surgical extractions and methods of performing them-non Introducing the stu dent to the tools used for tooth extraction Introducing the student to the problems expected to occur during and after tooth extraction				
10.Course structure						
the week			Required learning outcomes	Name of the unit or topic	Learning method	Evaluati method
First	1		Diagnosis	Diagnosis in oral surgery	lecture	Weekl monthly
second	1		Diagnosis	Diagnosis in oral surgery	lecture	Weekl monthly
third	1		Infection control	Infection control in surgical practice	lecture	Weekl monthly

fourth	1	Infection control	Infection control in surgical practice	lecture	Weekly and monthly exams
Fifth	1	Reasons and prohibitions for extraction	Extraction of teeth and contra indication of extraction	lecture	Weekly and monthly exams
sixth	1	and Reasons prohibitions for extraction	Extraction of teeth and contra indication of extraction	lecture	Weekly and monthly exams
Seventh	1	Arrangement of tools	General arrangement for extraction and dental forceps	lecture	Weekly and monthly exams
Eigth	1	Arrang ement of tools	General arrangement for extraction and dental forceps	lecture	Weekly and monthly exams
Ninth	1	Extraction methods	Technique for forceps extraction	lecture	Weekly and monthly exams
Tenth	1	Levigator extraction tool	elevators	lecture	and Weekly monthly exams
eleventh	1	Levigator extraction tool	Elevator	lecture	Weekly and monthly exams
twelveth	1	Complications of extraction	Complication of dental extraction	lecture	Weekly and monthly exams
Thirteenth	1	Complications of extraction	Complication of dental extraction	lecture	Weekly and monthly exams
<i>fourteenth</i>	1	Basic tools for dental surgery	Basic surgical instrument	lecture	Weekly and monthly exams
<i>Fifteenth</i>	1	Introduction to localization	Introduction to local anesthesia	lecture	Weekly and monthly exams
<i>sixteen</i>	1	Anesthesia pharmacokinetics	Pharmacology of local anesthesia	lecture	Weekly and monthly exams
<i>seventeenth</i>	1	Anesthesia pharmacokinetics	Pharmacology of local anesthesia	lecture	Weekly and monthly exams
<i>eighteen</i>	1	Surgical anatom y for reduction	Surgical anatomy in local anesthesia	lecture	Weekly and monthly exams
<i>nineteenth</i>	1	Surgical anatomy for reduction	Surgical anatomy in	lecture	Weekly and monthly exams

			local anesthesia		
<i>twentieth</i>	1	Anesthesia tools	Instrument of local anesthesia	lecture	Weekly and monthly exams
<i>Twenty – first</i>	1	Local anesthesia methods	Technique of local anesthesia	lecture	Weekly and monthly exams
<i>Twenty - second</i>	1	Local anesthesia methods	Technique of local anesthesia	lecture	Weekly and monthly exams
<i>Twenty - third</i>	1	Local anesthesia methods	Technique of local anesthesia	lecture	Weekly and monthly exams
<i>Twenty - fourth</i>	1	Complications of local anesthesia	Complication of local anesthesia	lecture	Weekly and monthly exams
<i>Twenty – fifth</i>	1	Complications of local anesthesia	Complication of local anesthesia	lecture	Weekly and monthly exams
<i>-twenty sixth</i>	1	Complications of local anesthesia	Complication of local anesthesia	lecture	Weekly and monthly exams
<i>Twenty - seventh</i>	1	Advanced methods of local anesthesia	Advances in local anesthesia	lecture	Weekly and monthly exams
<i>Twenty- eighth</i>	1	Conscious anesthesia	Conscious session	lecture	Weekly and monthly exams
<i>Twenty - ninth</i>	1	General anesthesia	Fundamental in general anesthesia	lecture	Weekly and monthly exams
Thirty	1	Treating emergency and critical cases	Medical emergency in dental treatment	lecture	Weekly and monthly exams

11.Course evaluation

Score distribution	of 100				
1	2.5		First chapter		
1	5		midyear		
1	2.5		Second	r	
6	0		ultimate		

12. Learning and teaching resources

Required textbooks (methodology, if any)	Hand book of local anesthesia
Main references (sources)	Contemporary oral and maxillofacial surgery
Recommended supporting books and references (scientific journals,).... reports	Google scholar articles
Electronic references, Internet sites	Google scholar articles

Laboratory sessions & Clinical requirement

- History taking: Includes patient communication skills, chief complaint, past dental history, medical history and family history, risk assessment associated with common medical conditions with regards to dental extraction.
- Clinical examination and diagnosis: Components of clinical examination with demonstration of extra oral and intra oral examination (lymph node palpation, TMJ palpation with the focus on the accused tooth/teeth), diagnosis of cases in patients case sheet with regards to dental extraction
- Basic surgical instruments I: Instrument to incise tissue, instrument for control of hemorrhage, instrument for grasping tissues, instruments for reflection of mucoperiosteal flap, instrument for cutting the bone
- Basic surgical instruments II: Instruments of retracting the cheek and mucosa, instruments of suturing, types of suture materials, types of suturing needles, instrument for suction, instruments of irrigation, instruments of patient draping and cable management.
- Dental forceps I: Indication of using dental forceps, part of a dental forceps, forceps of maxillary teeth.
- Dental forceps II: Forceps of mandibular teeth, physics forceps.
- Dental elevators I: Indications, mechanical principles of using elevators, straight elevators, Coupland chisel, Winters elevator
- Dental elevators II: Cryers elevator, apixo elevator, Warwick-James elevator, periotomes, guiding principles of using dental elevators.

Course description form

1. Course Name	
Pharmacology	
2. Code Course	
Phar306	
3. year / Semester	
annual	
4. description was prepared Date this	
2026 / 2025	
5. Available attendance	
. A presence	
6. Number of study hours (total)/number of units (total)	
120 / 6	
7. Name of the course administrator	
Sumaya Abd Ahmed Salman Al-Mahmoud — Lecturer — (Theory) — sumayah_almahmood@aliraqia.edu.iq	
8. objectives Course	
Objectives of the article Scholarship	The aim of studying pharmacology for dental students is multifaceted, but can be summarized as providing them with the following: : knowledge and skills necessary to - Understanding medications and using them safely in dental-1 : practice: This includes learning about - Mechanisms of drug action: How drugs interact with the body to produce the desired effects - Pharmacokinetics: How drugs are absorbed, distributed, metabolized, and excreted from the body - Pharmacodynamics: How drugs produce their therapeutic and adverse effects - Classes of drugs and their uses: The different types of drugs used in dentistry and their specific applications - Principles of prescription writing: How to prescribe medications to patients safely and effectively - 2 Managing patients with medical conditions: Dental students learn about common medical conditions and how they can affect dental treatment. This includes understanding how medications

	used to manage these conditions interact with dental medications, and how to modify treatment plans accordingly - 3 Identify and manage emergencies: Dental students learn to related emergen cies, -identify and manage potential medication . such as allergic reactions or overdoses 4- Communicate effectively with patients about medications: This includes discussing potential side effects, interactions, . and proper use of prescribed medications				
9.Teaching and learning strategies					
The strateg y		) 1 the types of s knowledge of The student medicines) 2 to the uses of medicines Introducing the student			
10.Course structure					
the week	hours	Required learning outcomes	Name of the unit or topic	Learning method	Evaluation method
First	2 Theoretical	Int rodution to medicines	Pharmacology: General concepts	lecture	Weekly and monthly exams
second	2 Theoretical		Pharmacokinetics and pharmacodynamics	lecture	Weekly and monthly exams
third	2 Theoretical	Nervous system medications	Autonomic nervous system from a pharmacological perspective (including cholinergic agonist and antagonist)	lecture	Weekly and monthly exams
fourth	2 Theoretical		Adrenergic agonists	lecture	Weekly and monthly exams
Fifth	1 theoretical		Adrenergic antagonists	lecture	Weekly and mo nthly exams

sixth	2 Theoretical	Blood pressure medications	Antihypertensive drugs	lecture	Weekly and monthly exams
Seventh	2 Theoretical	Angina medications	Management of angina and heart failure	lecture	Weekly and monthly exams
Eighth	2 Theoretical	Cardiac arrhythmia medications	Management of arrhythmia	lecture	Weekly and monthly exams
Ninth	2 Theoretical	Clotting medications	Anticoagulants, antiplatelet and anti-hyperlipidemic drugs	lecture	Weekly and monthly exams
Tenth	2 Theoretical	Painkillers	Introduction to the pharmacology of CNS drugs, sedative, hypnotics and antiseizures drugs	lecture	Weekly and monthly exams
eleventh	2 Theoretical	Psychiatric medications	Antipsychotic and antidepressant drugs	lecture	Weekly and monthly exams
twelveth	2 Theoretical	Anesthesia drugs	Local and general anaesthetics	lecture	Weekly and monthly exams
Thirteenth	3 Theoretical	Strong painkillers	Drug of abuse and opioid analgesics	lecture	Weekly and monthly exams
<i>fourteenth</i>	2 Theoretical	Diabetes medications	Management of diabetes mellitus	lecture	Weekly and monthly exams
<i>Fifteenth</i>	2 Theoretical	Digestive system medications	Drugs affecting GIT	lecture	Weekly and monthly exams
<i>sixteen</i>	2 Theoretical	Respiratory medications	Drugs acting on respiratory system (antihistamines and corticosteroids)	lecture	Weekly and monthly exams

<i>seventeenth</i>	2 Theoretical	Inflammatory medications 1	Non-steroidal anti-inflammatory drugs (NSAIDs) part 1	lecture	Weekly and monthly exams
<i>eighteen</i>	2 Theoretical	Inflammatory medications 2	Non-steroidal anti-inflammatory drugs (NSAIDs) part2 and Steroids in Dentistry	lecture	Weekly and monthly exams
<i>nineteenth</i>	2 Theoretical	Antibiotics	Chemotherapeutic drugs (Principles of antimicrobial therapy)	lecture	Weekly and monthly exams
<i>twentieth</i>	2 Theoretical	Antibiotics 1	Cell wall inhibitors (part1)	lecture	Weekly and monthly exams
<i>Twenty – first</i>	2 Theoretical	Antibiotics 2	Cell wall inhibitors (part 2)	lecture	Weekly and monthly exams
<i>Twenty - second</i>	2 Theoretical	Antibiotics 3	Protein synthesis inhibitors	lecture	Weekly and monthly exams
<i>Twenty - third</i>	3 Theoretical	Antibiotics 4	Quinolones, Folic acid antagonists and antimycobacterial	lecture	Weekly and monthly exams
<i>Twenty - fourth</i>	2 Theoretical	Antibiotics 5	Antifungal, antiviral and antiprotozoal drugs	lecture	Weekly and monthly exams
<i>Twenty – fifth</i>	2 Theoretical	Hormones	Sex hormone and contraceptive	lecture	Weekly and monthly exams
<i>-twenty sixth</i>	2 Theoretical	Thyroid medications	Thyroid hormones and anti-thyroid drugs	lecture	Weekly and monthly exams
<i>Twenty - seventh</i>	1 theoretical	Cancer medications	Anticancer drugs	lecture	Weekly and monthly exams
<i>Twenty-eigh</i>	1 theoretical	Medicines in dentistry	Dental Pharmacology:	lecture	Weekly and

			drugs and chemicals used in dental clinic		monthly exams
<i>Twenty - ninth</i>	2 Theoretical	Medications for tooth decay	Anticaries and drugs used in prevention of dental plaque	lecture	Weekly and monthly exams
Thirty	2 Theoretical	Emergency medicines	Essential emergency drugs in dental clinic	lecture	Weekly and monthly exams
11.Course evaluation					
Score distrib	ution out of	0			
	12.5		First chapter		
	15		midyear		
	12.5		Second semester		
	60		ultimate		
12.Learning and teaching resources					
) methodology, if any (Required textbooks			Karen Whalen - Lippincott Illustrated Reviews Pharmacology-LWW. 2018		
Main references (sources)			Stanley Zaslau - Lippincott's Illustrated Q&A Review of Pharmacology- Lippincott Williams & Wilkins. 2013		
Recommended supporting books and references (scientific journals, reports....)			Karen Whalen - Lippincott Illustrated Reviews_Pharmacology-LWW. 2018		
Electronic references, Internet sites			Stanley Zaslau - Lippincott's Illustrated Q&A Review of Pharmacology- Lippincott Williams & Wilkins. 2013		

Laboratory sessions

Lab number	Study unit title	Hours
1	Introduction and animal (e.g rabbits) handling	2
2	Routes of drug administration (Part 1)	2
3	Routes of drug administration (Part 2)	2
4	Clinical parameters in drug pharmacokinetics (Part 1)	2
5	Clinical parameters in drug pharmacokinetics (Part 2)	2
6	Demonstration of common dosage forms used in clinical practice (Part 1)	2
7	Demonstration of common dosage forms used in dentistry (Part 2)	2

8	Cholinergic agonists and antagonists (Physostigmine Vs Curare)	2
9	Effects of Drugs on Human Blood Pressure (Part 1-B-Blockers)	2
10	Effects of Drugs on Human Blood Pressure (Part 2) (Nitrates Effect on Human Volunteers)	2
11	Effects of Drugs on The Arterial Blood Pressure Of Human (Part-3)	2
12	The effects of drugs and light on human eyes	2
13	The effects of drugs and light on human eyes	2
14	Effects of parasympathomimetic drugs on glandular secretions	2
15	The response of human skin to histamine and adrenaline	2
16	The response of human skin to histamine and adrenaline	2
17	Evaluation of Analgesics	2
18	Evaluation of analgesics (Opioids)	2
19	Evaluation of Anti-inflammatory Drugs	2
20	Evaluation of Anti-inflammatory Drugs	2
21	Local Anaesthesia	2
22	General Anaesthesia	2
23	General Anaesthesia	2
24	Prescription writing	2
25	Prescription writing	2
26	Prescription writing	2
27	Oral conditions and their treatment	2
28	Orodonal preparation (part 1)	2
29	Orodonal preparation (Part 2)	2
30	Dental health and endocarditis prevention	2
Total		60

Course description form

1.Course Name	
Microbiology	
2. Code Course	
Micro307	
3. yea /Semester	
annual	
4. description was prepared Date this	
2026 / 2025	
5. Available attendance . A	
presence	
6.Number of study hours (total)/number of units (total)	
120 / 6	
7. Name of the course administrator	
Thuraya Karim Fadhil Khorshid Al-Wandawi — Assist. Prof. Dr. — (Theory & Practical) — thraya_fadhil@aliraqia.edu.iq	
8. objectives Course	
Objectives of the article Scholarship	The microbiology course aims to identify the principles of microorganisms, their life cycle, behavior and characteristics, and also aims to identify epidemic diseases, their methods of spread, methods of treating them and preventing them, as it is necessary to know the characteristics of microorganisms in general and the specific bacteria, fungi, characteristics of pathogenic microorganisms such as viruses and the mechanism of their occurrence diseases before These organisms, their diagnosis, how to differentiate between each one of - these pathogens, the tests that reveal them, and the identification of non pathogenic (beneficial) bacteria that are naturally present in the body and their effects on pathogenic organisms on the one hand. This also aims to 'The course covers the study of immunity, the mechanics of the body . defenses, and the immune response to diseases the sterilization methods used to get rid of It also discusses
9.Teaching and learning strategies	
The strategy	1- humans to beneficial are that microorganisms the Identifying 2- Pathogenesis organisms Identifying microscopic Methods of) laboratory (automatically diagnosed , transmission

	3- and natural (and its types s immunity'Identifying the body 4) acquired 4-The relationship between microscopic and human body the general in organisms 5-- sterilizatio n methods Identify
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10.Course structure

the week	hours	Required learning outcomes	Name of the unit or topic	Learning method	Evaluation method
First	2 Theoretical	Morphology, Ultra structures, physiology and metabolism of microorganisms:- - Eukaryotic & Prokaryotic cells -Cell structure of prokaryotes - Comparison between G+ve & G-ve cell wal	bacteriology	lecture	Weekly and monthly exams
second	2 Theoretical	-Microbial growth, growth curve - Metabolism of microorganisms Molecular biology & bacterial genetics	bacteriology	lecture	Weekly and monthly exams
third	2 Theoretical	-Sterilization and Disinfection	bacteriology	lecture	Weekly and monthly exams
fourth	2 Theoretical	Antibiotic and chemotherapy:- - Antibiotic, sources - Mode of action of antibiotic -Anti-microbial sensitivity tests - Bacterial resistance - Prophylactic use	bacteriology	lecture	Weekly and monthly exams
Fifth	1 theoretical	Introduction to general immunology and oral immunology - Non-specific and specific immunity -	bacteriology	lecture	Weekly and monthly exams

		Antigen - Immunoglobulin - Humeral and Cellular Immunity			
sixth	2 Theoretical	- Cells and organs of the immune system - Complement system - Human leukocyte antigen - Role of complement and HLA in oral disease	bacteriology	lecture	Weekly and monthl y exams
Seventh	2 Theoretical	Oral and mucosal immunity - Autoimmunity and immune tolerance	bacteriology	lecture	Weekly and monthly exams
Eigth	2 Theoretical	Hypersensitivity reactions - Antimicrobial and immunological defenses of saliva and gingival crevicular fluid components	bacteriology	lecture	Weekly and monthly exams
Ninth	2 Theoretical	Host-parasite relationship & Nosocomial infection - Symbiosis, Commensalism, Amphibiosis, Antagonistic -Sources of infection in hospital and -nosocomial infections -Post- operative wound infection, burn infections	bacteriology	lecture	Weekly and monthly exams
Tenth	2 Theoretical	Streptococci -Pyogenic Streptococci -Lancefield group -Pathogenesis of streptococci Epidemiology, treatment and prevention - Viridans streptococci - Pneumococci	bacteriology	lecture	Weekly and monthly exams
eleventh	2 Theoretical	Staphylococci - Virulence factors - and pathogenesis -	bacteriology	lecture	Weekly and

		Epidemiology, treatment and prevention			monthly exams
twelveth	2 Theoretical	G-negative diplococcic, Vellionella and Moraxella Neisseria gonorrhea, N. meningitidis	bacteriology	lecture	Weekly and monthly exams
Thirteenth	3 Theoretical	Lactobacilli, Actinomyces and Corynebacterium diphtheriae & Diphtheroids	bacteriology	lecture	Weekl y and monthly exams
<i>fourteenth</i>	2 Theoretical	Bacillus: B. subtilis, B. anthracis and B.ceres	bacteriology	lecture	Weekly and monthly exams
<i>Fifteenth</i>	2 Theoretical	Clostridium: C. perfringenis, C. tetani, C. botulinum, and difficile	bacteriology	lecture	W eekly and monthly exams
<i>sixteen</i>	2 Theoretical	Enterobacteriaceae - E.coli, Salmonella, Shigella,	bacteriology	lecture	Weekly and monthly exams
<i>seventeenth</i>	2 Theoretical	Enterobacter, Klebsiella, proteus, Yersinia	bacteriology	lecture	Weekly and monthly ex ams
<i>eighteen</i>	2 Theoretical	Mycobacterium - Tuberculosis & Leprae	Mycobacterium - Tuberculosis & Leprae	lecture	Weekly and monthly exams
<i>nineteenth</i>	2 Theoretical	Brucella, Haemophilus, Vibrio	bacteriology	lecture	Weekly exams
<i>twentieth</i>	2 Theoretical	Aggregatibacter, porphyromonas, prevotella, Bacteroids	bacteriology	lecture	Weekly and monthly exams
<i>Twenty –first</i>	2 Theoretical	Fusiforms and Spirochaetes - Fusobacterium, leptotichia	bacteriology	lecture	Weekly and monthly exams
<i>Twenty - second</i>	2 Theoretic al	Treponema and oral Treponema	bacteriology	lecture	Weekly exams

<i>Twenty - third</i>	3 Theoretical	Mycoplasma, Chlamydia and Rickittsia	bacteriology	lecture	Weekly and monthly exams
<i>Twenty - fourth</i>	2 Theoretical	Ecology of oral flora -Indigenous flora -Supplemental flora -Transient flora -Sources of oral bacteria - Factors modulating growth of bacteria in the oral cavity	bacteriology	lecture	Weekly and monthly exams
<i>Twenty -fifth</i>	2 Theoretical	Microbiology of dental caries -Dental plaque & plaque metabolism - plaque homeostasis - cariogenic microorganisms - Mutans Streptococci - Lactobacilli and Actinomyces	bacteriology	lecture	Weekly and monthly exams
<i>sixth-twenty</i>	2 Theoretical	icrobial colonizationCaries preventionAntibacterial factors in saliva- - Vaccination against dental caries	bacteriology	lecture	Weekly and monthly exams
<i>Twenty - seventh</i>	1 theoretica l	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	bacteriology	lecture	Weekly and monthly exams
<i>Twenty- eighth</i>	1 theoretica	Virology general structure of	Virology	lecture	Weekly and

		viruses -classification			monthly exams
<i>Twenty - ninth</i>	2 Theoretical	Viral replication - Isolation & diagnosis - Oral virology	bacteriology	lecture	Weekly and monthly exams
Thirty	2 Theoretical	Oral mycology and Oral parasitology - Introduction, epidemiology, transmission - E.histolotica, E.gingivalis, T.tenax - Fungal cells - classification -Candida	bacteriology	lecture	Weekly and monthly exams
11.Course evaluation					
Score distribution out of 100					
		12.5	First chapter		
		15	mid year		
		12.5	Second semester		
		60	ultimate		
12.Learning and teaching resources					
Required textbooks (methodology, if any)			Kuby Immunology Eighth edition 2019		
Main references (sources)			Essential microbiology for dentistry 5th edition		
books and references Recommended supporting) scientific journals, reports (			- Review of medical microbiology		
Electronic references, Internet sites			and immunology		

Clinical requirements

Lab number	Study unit title	Hours
1	Orientation to the Microbiology laboratory	2
2	The microscope	2

3	Sterilisation and disinfection:	2
4	Bacterial growth	2
5	Types of culture media	2
6	Sampling and transport of test material	2
7	Laboratory cultivation of microorganisms	2
8	Bacterial identification: 1-Macroscopical characteristics (colon morphology and cultural characteristics).	2
9	2. Microscopical examination (morphology of bacterial cells).	2
10	Staining	2
11	Biochemical tests (part 1).	2
12	Biochemical tests(part2).	2
13	Biochemical tests(part3).	2
14	Antibiotic sensitivity test(part 1).	2
15	Antibiotic sensitivity test(part 2).	2
16	Serological tests (antigen and antibody detection tests) (part 1).	2
17	Serological tests (antigen and antibody detection tests) (part 2).	2
18	Nucleic acid assays, Animal pathogenicity test	2
19	Staphylococci	2

20	Streptococci	2
21	<u>Corynebacterium</u>	2
22	Spore-forming Gram-positive bacilli: <u>Bacillus</u> spp.	2
23	<u>Clostridium</u> spp.	2
24	<u>Mycobacterium</u> spp.	2
25	Enterobacteriaceae (part1)	2
26	Enterobacteriaceae (part2)	2
27	Enterobacteriaceae(part3)	2
28	<u>Neisseriae</u> spp.	2
29	rr Virology	2
30	Mycology	2
Total		60

Course description form

1.Course Name	
Conservative dentistry	
2. Code Course	
Cons308	
3. year / Semester	
Annual / third	
4. description was prepared Date this	
2026-2025	
5. Available attendance . A	
presence	
6.Number of study hours (total)/number of units (total)	
6 /120	
7. Name of the course administrator	
Mohammed Hammoudi Alaywi — Lecturer — (Theory & Practical) — m.hamoudi@aliraqia.edu.iq	
8. objectives Course	
Objectives of the study subject	diagnose the Training the student on how to examine patients and s condition using diagnostic methods'patient , Modern and currently approved, then prepare a treatment plan a correct scientific manner and use in then start treatment Modern materials and methods in the manufacture of partial dentures, by giv ing theoretical lectures with of the Corona crisis Practicing in clinics and in light of the current epidemic obliges the student to exercise prevention, caution and commitment With all means of protection for both the student and the patient
9. learning strategies Teaching and	
The strategy	1-Training the student on how to examine and diagnose medical . conditions 2- . Giving important information and treatment steps
10.Course structure	

the week	hours	Required learning outcomes	Name of the unit or topic	Learning method	Evaluation method
First	2	Definition of operative dentistry	Definition of operative dentistry	<i>Weekly lecture using the smart and regular board And a smart projector</i>	<i>Homework and daily and semester exams</i>
second	2	Definition of operative dentistry	Definition of operative dentistry	<i>The weekly lecture using the smart and regular board and a smart projector</i>	<i>Homework and daily and semester exams</i>
third	2	Instruments and general instrumentation of cavity preparation	Instruments and general instrumentation of cavity preparation	<i>The weekly lecture using the smart and regular board and a smart projector</i>	<i>Homework and daily and semester exams</i>
fourth	2	Instruments and general instrumentation of cavity preparation	Instruments and general instrumentation of cavity preparation	<i>The weekly lecture using the smart and regular board and a smart projector</i>	<i>Homework and daily and semester exams</i>
Fifth	2	Sterilization of operative instruments	Sterilization of operative instruments	<i>The weekly lecture using the smart and</i>	<i>Homework and daily and semester exams</i>

				<i>regu lar board and a smart projector</i>	
sixth	2	Sterilization of operative instruments	Sterilization of operative instruments	<i>The weekly lecture using the smart and regular board and a smart projector</i>	<i>Homework and daily and s emester exams</i>
Seventh	2	Amalgam cavity preparations for class I	Amalgam cavity preparations for class I	<i>The weekly lecture using the smart and regular board and a smart projector</i>	<i>Homework and daily and semester exams</i>
Eigth	2	Amalgam cavity preparations for class I	Amalgam cavity preparations for class I	<i>The weekly lecture using the smart and regular board and a smart projector</i>	<i>Homework and daily and semester exams</i>
Ninth	2	Amalgam cavity preparations for class II	Amalgam cavity preparations for class II	<i>T he weekly lecture using the smart and regular board and a smart projector</i>	<i>Homework and daily and semester exams</i>

Tenth	2	Amalgam cavity preparations for class II	Amalgam cavity preparations for class II	<i>The weekly lecture using the smart and regular board and a smart projector</i>	<i>Homework and daily and semester exams</i>
eleventh	2	Amalgam cavity preparations for class II (MOD)	Amalgam cavity preparations for class II (MOD)	<i>The weekly lecture using the smart and regular board and a smart projector</i>	<i>Homework and d aily and semester exams</i>
twelveth	2	Amalgam cavity preparations for class II (MOD)	Amalgam cavity preparations for class II (MOD)	<i>The weekly lecture using the smart and regular board and a smart projector</i>	<i>Homework and daily and semester exams</i>
Thirteenth	2	Amalgam cavity preparations for class III and class V	Amalgam cavity preparations for class III and class V	<i>The weekly lecture using the smart and regular board and a smart projector</i>	<i>Homework and daily and semester exams</i>
<i>fourteenth</i>	2	Amalgam cavity preparations for class III and class V	Amalgam cavity preparations for class III and class V	<i>The weekly lecture using the smart and regular board</i>	<i>Homework and daily and semester exams</i>

				<i>and a smart projector</i>	
<i>Fifteenth</i>	2	Cavity liners and cement bases (part 1)	Cavity liners and cement bases (part 1)	<i>The weekly lecture using the smart and regular board and a smart projector</i>	<i>Homework and daily and semester exams</i>
<i>sixteen</i>	2	Cavity liners and cement bases (part 1)	Cavity liners and cement bases (part 1)	<i>The weekly lecture using the smart and regular board and a smart projector</i>	<i>Homework and daily and semester exams</i>
<i>seventeenth</i>	2	Cavity liners and cement bases (part 2)	Cavity liners and cement bases (part 2)	<i>The weekly lecture using the smart and regular board and a smart projector</i>	<i>Homework and daily and semester exams</i>
<i>eighteen</i>	2	Cavity liners and cement bases (part 2)	Cavity liners and cement bases (part 2)	<i>The weekly lecture using the smart and regular board and a smart projector</i>	<i>Homework and daily and semester exams</i>
<i>nineteenth</i>	2	Dental amalgam alloys (material)	Dental amalgam alloys (material)	<i>The weekly lecture</i>	<i>Homework and daily and</i>

				<i>using the smart and regular board and a smart projector</i>	<i>semester exams</i>
<i>twentieth</i>	2	Dental amalgam alloys (material)	Dental amalgam alloys (material)	<i>The weekly lecture using the smart and regular board and a smart projector</i>	<i>Homework and daily and semester exams</i>
<i>Twenty – first</i>	2	Complex amalgam restoration	Complex amalgam restoration	<i>The weekly lecture using the smart and regular board and a smart projector</i>	<i>Homework and daily and semester exams</i>
<i>Twenty - second</i>	2	Complex amalgam restoration	Complex amalgam restoration	<i>The weekly lecture using the smart and regular board and a smart projector</i>	<i>Homework and daily and semester exams</i>
<i>Twenty - third</i>	2	Failures in amalgam restorations	Failures in amalgam restorations	<i>The weekly lecture using the smart and regular board and a smart projector</i>	<i>Homework and daily and semester exams</i>

<i>Twenty - fourth</i>	2	Failures in amalgam restorations	Failures in amalgam restorations	<i>The weekly lecture using the smart and regular board and a smart projector</i>	<i>Homework and daily and semester exams</i>
<i>Twenty – fifth</i>	2	Tooth colored restorations (composite)	Tooth colored restorations (composite)	<i>The weekly lecture using the smart and regular board and a smart projector</i>	<i>Homework and daily and semester exams</i>
<i>-twenty sixth</i>	2	Tooth colored restorations (composite)	Tooth colored restorations (composite)	<i>The weekly lecture using the smart and regular board and a smart projector</i>	<i>Homework and daily and semester exams</i>
<i>Twenty - seventh</i>	2	Cavity preparation for anterior restorations	Cavity preparation for anterior restorations	<i>The weekly lecture using the smart and regular board and a smart projector</i>	<i>Homework and daily and semester exam</i>
<i>Twenty- eighth</i>	2	Cavity preparation for anterior restorations	Cavity preparation for anterior restorations	<i>The weekly lecture using the smart and regular board</i>	<i>Homework and daily and semester exams</i>

				<i>and a smart projector</i>	
<i>Twenty - ninth</i>	2	Resin material	Resin material	<i>The weekly lecture using the smart and regular board and a smart projector</i>	<i>Homework and daily and semester exams</i>
Thirty	2	Resin material	Resin material	<i>The weekly lecture using the smart and regular board and a smart projector</i>	<i>Homework daily and and semester exams</i>

11.Course evaluation

Score distrib	ution out of	100			
12.5			First chapter		
15			midyear		
12.5			Second semester		
60			ultimate		

12.Learning and teaching resources

Required textbooks (methodology, if any)	
Main references (sources)	
Recom mended supporting books and references (scientific journals, reports....)	
Electronic references, Internet sites	

Laboratory sessions

Lab number	Study unit title Preclinical Operative Dentistry	Hours
1 D	Introduction to operative dentistry, and to work in phantom lab. Demonstration about the rotary instrument, and how to cut geometrical cavities (circle, triangle, square, rectangle, and dove-tail), and leave students to work under supervision	2
2	emonstration 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
3	D Demonstration of principles of amalgam cavity preparation for CL I on the occlusal surface of lower 2 nd premolar on the board then do eemonstration of cutting on the phantom head. Quiz about the principles of CL I amalgam cavity preparation.	2
4	D Demonstration amalgam CL I cavity for lower st premolar and Leave students to work under supervision.	2
5	D Demonstration amalgam CL I cavity for upper 1 st molar (two separated cavities) on the phantom head and teaching the students how to work ndirectly by using mirror. Leave students to work under supervision.	2
6	monstration amalgam cavity for the palatal extension in upper 1 molar (continue with last lab in distal occlusal cavity), and Demonstration on the hand instrument groups, and teach students to differentiate between them.	2
7	actical assessment for the students in amalgam CL I cavity on lower st molar. Oral quiz on the hand instrument and their groups.	2

8	Demonstration amalgam CL II MO cavity for lower 1st premolar	2
9	Demonstration amalgam CL II MO cavity for upper 1 st molar	2
10	Practical assessment for the students in amalgam CL II MO cavity on lower 1 st molar. Quiz in amalgam CL II cavity lectures.	2
11	Demonstration amalgam CL II MOD cavity for lower 1 st molar	2
12	Demonstration amalgam CL II MOD cavity for upper 2 nd molar	2
13	Practical assessment for the students in cavity preparation of amalgam CL II MOD cavity on lower 2 nd molar.	2
14	Demonstration amalgam CL V cavity for lower 2 nd premolar, upper 1 st molar and upper 2 nd premolar.	2
15	Demonstration amalgam CL III cavity in distal side of upper canine.	2
16	Demonstration of the liner and base placement, their indication, advantage, and uses.	2
17	Supervised students in mixing and placing zinc phosphate cement in CL	2
18	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 2 nd molar..	2
19	Practical assessment for the students in zinc phosphate mixing and placement in CL II MOD cavity on lower 1 st molar.	2
20	Amalgam filling of CL I cavity of lower 1st premolar	2
21	Amalgam filling of CL II cavity of lower 2nd premolar.	2
22	Amalgam filling of CL II cavity of upper 1st molar.	2
23	Amalgam filling of CL II MOD cavity of upper 2nd molar.	2
24	Practical assessment on Amalgam filling of CL II MOD cavity of lower 1st molar.	2
25	Amalgam filling of CL V cavities of upper 1st molar and lower 2nd premolar.	2
26	Preparation of CL III composite cavity on upper central incisor	2

Course Teaching Staff

Academic Yearr 2025-2026

GeAn101 — General anatomy (Yearr: First)

#	Instructor name	Scientific rank	Theory/Practical	Email
1	Ammar Ismail Jabbar	Prof. Dr.	Theory & Practical	ammam.i.jabbar@aliraqia.edu.iq
2	Hanin Ibrahim Ali Mohammed	Assist. Lecturer	Theory	haneen.i.ali@aliraqia.edu.iq
3	Thariyat Abdul-Rahman Mutlak Wadi	Assist. Lecturer	Theory	thariat.a.rahman@aliraqia.edu.iq

MeBi102 — Medical biology (Yearr: First)

#	Instructor name	Scientific rank	Theory/Practical	Email
1	Noor Abdul-Zahra Ali Ibrahim	Lecturer Dr.	Theory & Practical	noor.abd.ali@aliraqia.edu.iq
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3	Ihab Qasim Talib	Assist. Lecturer	Theory	ehab.q.t@aliraqia.edu.iq

Comp103 — Computer (Yearr: First)

#	Instructor name	Scientific rank	Theory/Practical	Email
1	Muammar Shakir Mahmoud Abdul-Munim Al-Muadhin	Lecturer	Practical	muammar.shakir@aliraqia.edu.iq
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4	Ali Saadoun Mujhid	Assist. Lecturer	Practical	ali.s.mujhid@aliraqia.edu.iq
5	Abdul-Karim Riyadh Youssef	Assist. Lecturer	Practical	kareemriadh1995@gmail.com
6	Sura Abdul-Munim Mohammed	Assist. Lecturer	Practical	sura.mm@aliraqia.edu.iq

MePh104 — Medical physics (Yearr: First)

#	Instructor name	Scientific rank	Theory/Practical	Email
1	Sara Khudair Taha Ahmed	Lecturer Dr.	Theory & Practical	Sarah.Kh.taha@aliraqia.edu.iq
2	Rand Ali Haidar	Lecturer Dr.	Theory & Practical	rand.a.hayder@aliraqia.edu.iq
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HuRi105 — Human rights (Yearr: First)

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DcAn106 — Dental anatomy (Yearr: First)

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ArLa108 — Arabic language (Yearr: First)

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MeCh109 — Medical chemistry (Yearr: First)

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GeAn201 — General anatomy (Yearr: Second)

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BiCh202 — Biochemistry (Yearr: Second)

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OrHi203 — Oral histology (Yearr: Second)

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GeHi204 — General histology (Yearr: Second)

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Pros206 — Prosthodontics (Yearr: Second)

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Geph207 — General physiology (Yearr: Second)

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Baath208 — Baath crimes (Yearr: Second)

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CoDe301 — Community dentistry (Yearr: Third)

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DeRa302 — Dental Radiology (Yearr: Third)

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GePa303 — General pathology (Year: Third)

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Pros304 — Prosthodontics (Year: Third)

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OrSur305 — Oral surgery (Year: Third)

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Phar306 — Pharmacology (Year: Third)

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Micr307 — Microbiology (Year: Third)

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Cons308 — Conservative dentistry (Year: Third)

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GeMe401 — General Medicine (Year: Fourth)

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GeSu402 — General Surgery (Year: Fourth)

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OrPa403 — Oral pathology (Year: Fourth)

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OrSu404 — Oral surgery (Year: Fourth)

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Orth405 — Orthodontics (Year: Fourth)

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PeDe406 — Pediatric dentistry (Year: Fourth)

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Peri407 — Periodontics (Year: Fourth)

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Pros408 — Prosthodontics (Year: Fourth)

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CoDe409 — Conservative (Year: Fourth)

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PROS501 — Prosthodontics (Year: Fifth)

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OrMe502 — Oral medicine (Year: Fifth)

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OrSu503 — Oral surgery (Year: Fifth)

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Orth504 — Orthodontics (Year: Fifth)

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PeDe505 — Pediatric dentistry (Year: Fifth)

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PrDe506 — Preventive dentistry (Year: Fifth)

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Peri507 — Periodontics (Year: Fifth)

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CoDe508 — Conservative (Year: Fifth)

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RePr509 — Research project (Year: Fifth)

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