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

Academic Program and Course Description Guide

2025

Academic Program Description Form

University Name: : *University of Baghdad*

Faculty/Institute: *College of Dentistry*

Scientific Department: *Eight departments*

Academic or Professional Program Name: Dentistry

Final Certificate Name: Bachelor degree in Dental Surgery

Academic System: Yearly

Description Preparation Date: ٢٠٢٤\٩\٥

File Completion Date:

Signature: raghad

Head of Department Name:

Prof.Dr.Raghad Abdullrazzaq Mohammed

Date:

10/9/2024

Signature:

Scientific Associate Name:

Prof.Dr.Saif Sahaam

Date:

10. 9. 2024

The file is checked by:

Department of Quality Assurance and University Performance

Director of the Quality Assurance and University Performance Department:

Assist.Prof. Dr.Ghasak Husham

Date: 10/9/2024

Signature:

كلية طب الاسنان
جامعة بغداد

University Of Baghdad
College Of Dentistry
Dean Office

raghad

Prof.Dr.Raghad Abdullrazzaq Mohammed

Approval of the Dean

1. Program Vision

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

2. Program Mission

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

3. Program Objectives

The College of Dentistry was established in 1953 and aims at preparing medical cadres specialised in Oral, Maxillofacial and Dental Medicine and Surgery at a distinguished scientific and professional level. The faculty has a special dental teaching hospital, where students are clinically trained in modern clinics and in all academic disciplines of dentistry (Oral, Maxillofa-cial and Dental Medicine and Surgery, prosthodontics, pedodontics and preventive dental medicine, orthodontics, dental plas-tic surgery, periodontics and oral diagnosis) using the latest techniques, in addition to delivering lectures and teaching the students in various scientific and applied laboratories, and the duration of the study in the faculty is five years.

4. Program Accreditation

Yes,

5. Other external influences

Is there a sponsor for the program?

6. Program Structure

Program Structure	Number of Courses	Credit hours	Percentage	Reviews*
Institution Requirements				
College Requirements				
Department Requirements				
Summer Training				
Other				

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

7. Program Description

Year/Level	Course Code	Course Name	Credit Hours	
			theoretical	practical
First	(Human Anatomy)	101AN	60	30
	(Computer Sciences)	103CS	60	0
	(Dental Anatomy)	104DA	60	30
	Human Rights and Democracy	105HRAD		30
	(Medical Chemistry)	106CH	60	60
	(Medical Physics)	107PS	60	60
	(Biology)	108BL	60	60
	(English Language)	110EL	0	30
Second	(Dental Material)	209DM	60	30

	(Prosthodontics)	210PR	120	30
	(Embryology and Oral Histology)	211EL 215OH	60	30
	(Biochemistry)	212BC	60	60
	(General Histology)	213GH	60	60
	(General Physiology)	214PH	60	60
	(Computer Sciences)	203CS	0	30
	(Anatomy)	201AN	60	30
Third	(Microbiology)	316MB	60	60
	(Pharmacology)	317PC	60	60
	(Community Dentistry)	318CM	60	30
	(Conservative dentistry)	319CV	120	60
	(Dental Radiology)	320RL	60	30
	(General Pathology)	321PA	60	60
	(Oral Surgery)	322OS	60	30
	(Prosthodontics)	310PR	60	30
Fourth	(General Medicine)	423GM	75	30
	(General Surgery)	424GS	75	30
	(Oral Surgery)	422OS	150	30
	(Conservative Dentistry)	419CV	150	30
	(Oral Pathology)	425OP	90	60
	(Orthodontic)	426OD	150	30
	(Pedodontics)	427PE	0	30

	(Periodontics)	428PT	75	30
	(Prosthodontics)	410PR	75	30
Fifth	(Conservative Dentistry)	519CV	150	30
	(Oral Medicine)	529OM	75	30
	(Oral Surgery)	522OS	150	30
	(Pedodontics)	530PAPD	37.5	30
	(Prevention)	531PD	37.5	30
	(Prosthodontics)	510PR	150	30
	(Orthodontics)	526OD	75	30
	(Periodontics)	528PT	75	30

8. Expected learning outcomes of the program

Knowledge	
A.1- students gain knowledge of scientific and medical terminology used in dentistry and theoretical subjects. A.2- student familiarises with different types of materials and equipment used in the field of dentistry. A.3- developing students confidence to deal with all types of patients.	A.4- developing students capacity to deal with different treatment situations. A.5- promoting the principles of participation of a group of students to discuss a pathological condition and how to treat it. A.6- providing students with full knowledge for preparing an integrated treatment plan for patients.
Skills	
B.1. Promoting the principle of lifelong learning in order to continue professional development	B.2. Students acquire different therapeutic skills B.3- Promoting the ethics of the profession and dealing of patients by the graduates

Ethics	
C1—Thinking Skill depends on student ability (let think about thinking ability). The goal of this skill is to make students to believe what is concrete (student capacity) to understand when, what and how to think and improve their ability to think reasonably.	C2—Critical thinking skill that aims to pose a problem, analyse it logically and reach the solution required.
C 3—Student awareness of the need to balance freedom and responsibility	C4—Making the right decision for the benefit of the patient and based on logical reasoning.

9. Teaching and Learning Strategies

– Lectures that assess student research and teaching them ways to confront and solve problems.
– Following up the way student thinks, how they make expression and how quickly they respond.
– Laboratory experiments.
– Self-study.

10. Evaluation methods

– Theoretical tests

– Practical tests

– Reports and studies.

11. Faculty

Faculty Members

Academic Rank	Specialization		Special Requirements/Skills (if applicable)	Number of the teaching staff	
	General	Special		Staff	Lecturer

Lecturer Inaam Abass	**Arabic**	**Literature**			staff	
prof. Dr. Suhad Sameer Hussein	**computer**	**computer**			staff	
lecturer. Raghad khalid	**computer**	**network**			staff	
lecturer. wood majed	**computer**	**network**			staff	
Assistant Lecturer iman amer	**computer**	**computer**			staff	
Assist. Prof. Samar Abdul Hamed Yasin					staff	
Hayder Ali lect.	**political science**	**Political systems and public policies**				lecturer
Asst. Prof. Dr. Abeer Khalid Yaseen	**Chemistry**	**Biochemistry**			staff	
Asst. Prof. Dr. Wafaa Mansor	**Chemistry**	**Biochemistry**			staff	
Asst. Prof. Dr. Eman Turky	**Chemistry**	**Inorganic Chemistry**			staff	
Asst. lecturer Najwan Mohammed Saeed	**Chemistry**	**Physical chemistry**			staff	
Asst.prof.Jaafar M.Mousa	**Applied sciences**	**Applied Physics**			staff	
Asst.prof.Salim J.Attia	**Physics**	**Medical physic**			staff	

Asst.prof.Amal Y.Al-Yasiri	**Physics**	**Radioactive Medical physic**			staff	
Prof.Dr Fadia Abdalmuhsin	**Biology**	**Public health**			staff	
Assist.Prof.Dr Sumaiah Ibraheem	**Biology**	**zoology**			staff	
Assist.Prof.Dr Balkes Fadel	**Veterinary**	**Molecular inheritance**			staff	
lecturer Rasha Mohammed Shaker	**agriculture**	**Food industry**				
Lecturer Dr Maha Mohsin Khalaf	**Veterinary doctor**	**PhD Pharmacology**			staff	
Lecturer Dr Saleha Sahib Mosa	**Biology**	**PhD Histology**			staff	
Aseel Mohammed Sadeq	B.D.S.	Ph. D			staff	
Zainab Salih Abdullah	B.D.S.	M.Sc.			staff	
Ali Jameel Abdulsahib	B.D.S.	M.Sc.			staff	
Mustafa Mahdi Jassim	B.D.S.	Ph. D			staff	
DhuhaHussein Mohammed	B.D.S.	Ph. D			staff	
Ali Abdulrazzaq Mohammed	B.D.S.	Ph. D			staff	
Mustafa Shakir Mahmood	B.D.S.	M.Sc.			staff	

Prof. Dr. Abdalbasit Ahmad Fatihallah	B.D.S.	Ph.D. in Prosthodontics			staff	
Assistant Prof. Dr. Firas Abdulameer Farhan	B.D.S.	Ph.D. in Prosthodontics			staff	
Assistant Prof. Wasmaa Sadik Mahmood	B.D.S.	Ph.D. in Prosthodontics			staff	
Noor Falah Abdul-Hadi					staff	
Ban Saad Jasim					staff	
Zinah Salah Mawlood					staff	
Prof. Dr. eaman Ali Salman	chemistry	biochemistry			staff	
Assistant Professor Dr. shaimaa sabte mutlak	chemistry	Clinical biochemistry			staff	
Lecturer. Dr. zainab ali salman	chemistry	biochemistry			staff	
Asst Lecturer Israa Mohmmod	chemistry	Physics			staff	
Prof. Ahmed Anwar Albir	Biology	Zoology			staff	
Assistant Professor Dr. Rasha Abbas Azeez	Biology	Zoology			staff	
Asst. Lec. Zainab Rasheed hameed	Biology	Zoology			staff	
Prof. Dr. Khalid Hamdan Gathwan	Biology	Biotechnology			staff	

Prof. Dr. Shatha Qassim Jawad	Veterinary Medicine and Surgery	Genetic Engineering and Biotechnology			staff	
Asst Prof Dr. Sahar Hashim Abdul-Kareem	Biology	Zoology			staff	
Asst Prof Dr. Suha Talal Abd	Dentistry	Physiology			staff	
					staff	
Prof Dr Saif sehaam saliem	Dental and Oral Surgery	periodontics			staff	
Assisst prof Alaa omran ali	Dental and Oral Surgery	periodontics			staff	
Assisst prof Hadeel Mazin Akram	Dental and Oral Surgery	periodontics			staff	
Assisst prof Ayser N Mohammed	Dental and Oral Surgery	periodontics			staff	
Assisst prof Dr Raghad Fadhil Abbas	Dental and Oral Surgery	periodontics			staff	
Assisst prof Suzan Ali Salman	Dental and Oral Surgery	periodontics			staff	
Assisst prof Omar husham	Dental and Oral Surgery	periodontics			staff	
Assisst prof Nada Kadhim Imran	Dental and Oral Surgery	periodontics			staff	

Assisst prof Dr Ali Abbas Abdulkareem	Dental and Oral Surgery	periodontics			staff	
Assisst prof Dr Hayder Raad Abdulbaqi	Dental and Oral Surgery	periodontics			staff	
Assisst prof Dr FIRAS BASHIR HASHIM	Dental and Oral Surgery	periodontics			staff	
Lecturer Lubaba A. Abdulameer	Dental and Oral Surgery	periodontics			staff	
Lecturer Rasha Salah Abbood	Dental and Oral Surgery	periodontics			staff	
Assisst lecturer Mohamed saeed mohamed ali	Dental and Oral Surgery	periodontics			staff	
Assisst lecturer Abbas Suhail Abbas	Dental and Oral Surgery	periodontics			staff	
					staff	
Professor Al-Huwaizi, Akram Faisal	Dental and Oral Surgery	orthodontics			staff	
Professor Saloom, Hayder F.	Dental and Oral Surgery	orthodontics			staff	
Professor Ibrahim, A. I.	Dental and Oral Surgery	orthodontics			staff	
Professor Al Groosh, D. H.	Dental and Oral Surgery	orthodontics			staff	

Professor Nahidh, Mohammed	Dental and Oral Surgery	orthodontics			staff	
Professor Abid, Mushriq F.	Dental and Oral Surgery	orthodontics			staff	
Professor al−Attar, Ali M.	Dental and Oral Surgery	orthodontics			staff	
Professor Yassir, Yassir A.	Dental and Oral Surgery	orthodontics			staff	
Professor Aldabagh, Dhiaa J.	Dental and Oral Surgery	orthodontics			staff	
Professor Basim, Abeer	Dental and Oral Surgery	orthodontics			staff	
Professor Al-Ani, Reem Atta Rafeeq	Dental and Oral Surgery	orthodontics			staff	
Professor Mohammed, Shahbaa A.	Dental and Oral Surgery	orthodontics			staff	
Professor Al-Joubori, Sami Kadhum	Dental and Oral Surgery	orthodontics			staff	
Assistant professor Abdul-Hadi, Mehdi	Dental and Oral Surgery	orthodontics			staff	
Assistant professor Garma, Noor M.H.	Dental and Oral Surgery	orthodontics			staff	
Assistant professor Mohammed-Salih, Harraa S.	Dental and Oral Surgery	orthodontics			staff	
Assistant professor Kadhum, Ammar S.	Dental and Oral Surgery	orthodontics			staff	
Assistant professor Al-Khatieeb, Mustafa M.	Dental and Oral Surgery	orthodontics			staff	

Assistant professor Jasim, Esraa Salman	Dental and Oral Surgery	orthodontics			staff	
Assistant professor Al-Labban, Yasir R.	Dental and Oral Surgery	orthodontics			staff	
Assistant professor Shyamaa Shaker	Dental and Oral Surgery	orthodontics			staff	
Assistant professor Saleem, Alan E.	Dental and Oral Surgery	orthodontics			staff	
Assistant professor Nissan, Layth	Dental and Oral Surgery	orthodontics			staff	
Assistant professor Ahmed, Haider M.A.	Dental and Oral Surgery	orthodontics			staff	
Assistant professor Hussien, Hiba M.	Dental and Oral Surgery	orthodontics			staff	
Assistant professor Al-Mashhdany, Sara M.	Dental and Oral Surgery	orthodontics			staff	
Assistant professor Saloom, Jinan E.	Dental and Oral Surgery	orthodontics			staff	
Assistant professor Al-Khawaja, Noor F.K.	Dental and Oral Surgery	orthodontics			staff	
Lecturer Al-Rudainy, D.	Dental and Oral Surgery	orthodontics			staff	
Lecturer Adel Al-Lami, Hadeel Adel	Dental and Oral Surgery	orthodontics			staff	
Lecturer Al-Shaham, Samher A.	Dental and Oral Surgery	orthodontics			staff	
Lecturer Ihsan Sadiq	Dental and Oral Surgery	orthodontics			staff	

Lecturer Kadhom, Zainab M.	Dental and Oral Surgery	orthodontics			staff	
Lecturer Hassan, Alaa Faleh Albo	Dental and Oral Surgery	orthodontics			staff	
Assistant Lecturer Jasim, Hala Mohammed	Dental and Oral Surgery	orthodontics			staff	
Assistant Lecturer Hamid, Dina	Dental and Oral Surgery	orthodontics			staff	
Assistant Lecturer Noori, Reyam M.	Dental and Oral Surgery	orthodontics			staff	

Professional Development

Mentoring new faculty members

Briefly describes the process used to mentor new, visiting, full-time, and part-time faculty at the institution and department level.

Professional development of faculty members

Negotiation and persuasion: The student can influence, persuade, discuss and reach agreements.

Leadership: The student must lead, motivate and guide others.

Independence at work: The student can take responsibility and work independently under different circumstances

12. Acceptance Criterion

Admission criteria include students with a certain cumulative rate according to the central admission system, as well as stu-dents with physical, mental and social capacity to manage any medical condition or practice required by the study. Most dental schools require personal interviews with candidates to assess qualities such as the desire to help people, self-confidence, and the ability to meet challenges, the ability to work with people and the ability to work independently.

13. The most important sources of information about the program

1. Faculty and University website.

2. University Guide.
3. Books and scientific resources of the faculty.

14. Program Development Plan

Program Skills Outline: Required program Learning outcomes

Year \Level	Academic Course Code	Academic Course Name	Basic or Optional	Knowledge				Skills						Ethics			
				A1	**A2**	**A3**	**A4**	**B1**	**B2**	**B3**	**B4**	**C1**	**C2**	**C3**	**C4**
	101AN	Human Anatomy	**Basic**	√	√			√	√	√	√	√	√	√	√
	103CS	Computer Sciences	**Basic**	√	√			√	√	√	√	√	√	√	√
First Year	104DA	Dental Anatomy	**Basic**	√	√			√				√	√		
	105HRAD	Human Rights and Democracy	**Basic**	√	√			√	√			√	√		
	106CH	Medical Chemistry	**Basic**	√	√	√	√	√	√	√		√	√	√	√
	107PS	Medical Physics	**Basic**	√	√	√	√	√	√			√	√	√	√

		108BL	Biology	**Basic**	√	√	√	√	√		√	√			√	√	√	√
		110EL	English Language	**Basic**	√	√			√		√	√			√	√		

Program Skills Outline: Required program Learning outcomes

Year \Level	Academic Course Code	Academic Course Name	Basic or Optional	Knowledge				Skills				ethics			
				A1	**A2**	**A3**	**A4**	**B1**	**B2**	**B3**	**B4**	**C1**	**C2**	**C3**	**C4**
	209DM	Dental Material	**Basic**	√	√	√		√	√			√	√		
	210PR	Prosthodontics	**Basic**	√	√			√	√			√	√	√	√
	211EL	Embryology	**Basic**	√	√	√		√	√			√	√	√	
Second Year	212BC	Biochemistry	**Basic**	√	√	√	√	√	√	√		√	√	√	√

213GH	General Histology	**Basic**	√	√	√		√	√			√			
214PH	General Physiology	**Basic**	√	√			√				√	√		
203CS	Computer Sciences	**Basic**	√	√			√	√	√	√	√	√	√	√
215OH	Oral Histology	**Basic**	√	√			√	√	√		√	√		
201AN	Anatomy	**Basic**	√	√			√	√	√	√	√	√	√	√

Program Skills Outline: Required program Learning outcomes

Year \Level	Academic Course Code	Academic Course Name	Basic or Optional	Knowledge				Skills				ethics			
				A1	**A2**	**A3**	**A4**	**B1**	**B2**	**B3**	**B4**	**C1**	**C2**	**C3**	**C4**
Third Year	316MB	Microbiology	**Basic**	√	√	√	√	√	√	√		√	√		
	317PC	Pharmacology	**Basic**	√	√	√	√	√	√			√	√		
	318CM	Community Dentistry	**Basic**	√	√	√		√	√	√		√	√	√	
	319CV	Conservative dentistry	**Basic**	√	√			√	√			√	√		
	320RL	Dental Radiology	**Basic**	√	√	√	√	√	√	√		√			
	321PA	General Pathology	**Basic**	√	√	√		√	√	√		√			

	322OS	Oral Surgery	**Basic**	√	√	√		√	√	√		√				
	310PR	Prosthodontics	**Basic**	√				√	√			√	√	√	√	

Program Skills Outline: Required program Learning outcomes

Year \Level	Academic Course Code	Academic Course Name	Basic or Optional	Knowledge and understanding				Programme Skill Objectives				Thinking Skills			
				A1	**A2**	**A3**	**A4**	**B1**	**B2**	**B3**	**B4**	**C1**	**C2**	**C3**	**C4**
	423GM	General Medicine	**Basic**	√	√	√		√	√			√			
	424GS	General Surgery	**Basic**	√	√	√		√	√			√			
	422OS	Oral Surgery	**Basic**	√	√	√	√	√	√	√		√			

Fourth Year	419CV	Conservative Dentistry	**Basic**	√	√	√		√	√			√	√		
	425OP	Oral Pathology	**Basic**	√	√	√		√	√	√		√			
	426OD	Orthodontic	**Basic**	√	√	√		√				√			
	427PE	Pedodontics	**Basic**	√	√	√		√	√	√		√	√	√	
	428PT	Periodontics	**Basic**	√	√	√		√	√	√		√	√	√	
	410PR	(Prosthodontics)	Basic	√	√	√		√	√	√		√	√	√	

Program Skills Outline: Required program Learning outcomes

Year \Level	Academic Course Code	Academic Course Name	Basic or Optional	Knowledge				Skills				ethics			
				A1	**A2**	**A3**	**A4**	**B1**	**B2**	**B3**	**B4**	**C1**	**C2**	**C3**	**C4**
Fifth Year	519CV	Conservative Dentistry	**Basic**	√	√	√	√	√	√	√		√	√		
	529OM	Oral Medicine	**Basic**	√	√	√		√	√	√		√			
	522OS	Oral Surgery	**Basic**	√	√			√	√	√	√	√	√		
	530PAPD	Pedodontics	**Basic**	√	√	√		√	√	√		√	√	√	√
	531PD	Prevention	**Basic**	√	√	√		√	√	√		√	√		
	510PR	Prosthodontics	**Basic**	√	√	√	√	√	√	√	√	√	√	√	√

	526OD	Orthodontics	**Basic**	√				√	√			√				
	528PT	Periodontics	**Basic**	√	√	√		√	√	√		√	√	√		

Course Description Form

1. Course Name:	
Human Anatomy	
2. Course Code:	
101AT	
3. Semester / Year:	
2025-2025	
4. Description Preparation Date:	
2025	
5. Available Attendance Forms:	
Attendance in the classroom for the theoretical part	
6. Number of Credit Hours (Total) / Number of Units (Total)	
30 hours/60 credits	
7. Course administrator's name (mention all, if more than one name)	
Dr. Yasser Riyad Abdel Karim Dr. Nibras Hamdan Jasib Dr. Muhammad and Wasnan Abdel Wahab	
8. Course Objectives	
Course Objectives	• **The course objectives for anatomy in a dentistry school typically aim to provide students with a thorough understanding of the human body's structure, particularly focusing on areas relevant to dental practice. Here are some common objectives:** • **Fundamental Knowledge: Understand the basic concepts of human anatomy, including terminology, the organization of the human body, and the relationship between structure and function.** • **Head and Neck Anatomy: Gain detailed knowledge of the anatomy of the head, neck, and oral cavity, including bones, muscles, nerves, blood vessels, and lymphatic structures.**
9. Teaching and Learning Strategies	
Strategy	designed to provide comprehensive knowledge and practical skills through various educational methods. Here are some common strategies: 1. Lectures Purpose: To provide foundational knowledge and an overview of anatomical concepts. Approach: Use of multimedia presentations, detailed diagrams, and clinical correlations to enhance understanding.

	. 2- 3D Models and Simulations Purpose: To provide visual and tactile learning experiences. Approach: Use of physical models and digital simulations to study compl anatomical structures and their relationships.

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	1		▪ Introduction to Human Anatomy Descriptive Anatomic Terms	Theoretical lecture using PowerPoint presentation	Daily, monthly, semi-annu and final exams
2	1		Basic Structures: Skin, Fasciae, Muscle, Joints, Ligament, Bursa	Theoretical lecture using PowerPoint presentation	Daily, monthly, semi-annu and final exams
3&4	2		Basic Structures: Bone, Cartilage, Blood Vessels, Lymphatic Syste	Theoretical lecture using PowerPoint presentation	Daily, monthly, semi-annu and final exams
5	1		Basic Structures: Nervous System, Mucous Membranes, Serc Membranes	Theoretical lecture using PowerPoint presentation	Daily, monthly, semi-annu and final exams
6&7	2		Skeletal system c the body: Skull :Cranial Bones	Theoretical lecture using PowerPoint presentation	Daily, monthly, semi-annu and final exams
8&9	2		Skeletal system c the body: Skull : Facial Bones	Theoretical lecture using PowerPoint presentation	Daily, monthly, semi-annu and final exams
10&11	2		External Views c the Skull	Theoretical lecture using PowerPoint presentation	Daily, monthly, semi-annu and final exams

12&13	2		▪ The Cranial Cavity ▪ Major Foramina and Fissures locations and structures pass through Neonatal Skull	Theoretical lecture using PowerPoint presentation	Daily, monthly, semi-annu and final exams
14&15	2		▪ Skeleton of the Orbital Region, Openings into the Orbital Cavity ▪ Skeleton of the External Nose, nasal cavity, Paranasal Sinuses ▪ Auditory ossicles Hyoid bone	Theoretical lecture using PowerPoint presentation	Daily, monthly, semi-annu and final exams
16&17	2		The Vertebral Column	Theoretical lecture using PowerPoint presentation	Daily, monthly, semi-annu and final exams
18&19	2		▪ Structure of the Thoracic Wall ▪ Joints of the Chest Wall ▪ Suprapleural Membrane ▪ Diaphragm Surface Anatomy	Theoretical lecture using PowerPoint presentation	Daily, monthly, semi-annu and final exams
20&21	2		Thoracic cavity: Mediastinum, Pleurae, Trachea, Bronchi, Lungs	Theoretical lecture using PowerPoint presentation	Daily, monthly, semi-annu and final exams
٢٢و ٢٤	3		Pericardium, Hea Large arteries, ve and nerves of thorax	Theoretical lecture using PowerPoint presentation	Daily, monthly, semi-annu and final exams
25&26	2		▪ Bones of the Shoulder (Pectoral girdle) girdles Bones of the Upp extremities	Theoretical lecture using PowerPoint presentation	Daily, monthly, semi-annu and final exams
27&28	2		▪ Bones of the Pelvic girdle	Theoretical lecture using PowerPoint presentation	Daily, monthly, semi-annu

			Bones of the Lov extremities		and final exams
29&30	2		Abdominal cavity and organs	Theoretical lecture using PowerPoint presentation	Daily, monthly, semi-annu and final exams

11. Course Evaluation

Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc
15% half the year exam.
25% annual pursuit (weekly lab exam, monthly exams)
25% final practical exam
35% final theoretical exam

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	1.Snell Clinical anatomy 7th edition. 2. Netter's head and neck anatomy for dentistry 2nd edition 2012.
Main references (sources)	
Recommended books and references (scientific journals, reports…)	1.Snell Clinical anatomy 7th edition. 2. Netter's head and neck anatomy for dentistry 2nd edition 2012.
Electronic References, Websites	

13. Course Name: Arabic Language

14. Course Code: Arabic Language / 109 AL

15. Semester / Year:2025-2025

16. Description Preparation Date: 2/5/2025

17. Available Attendance Forms: Attendance in the classroom of the theoretical subject

18. Number of Credit Hours (Total) / Number of Units (Total): 30 hours/ 2 units of study

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

Name: Lecturer. Dr. Inaam Abass Email: inaam.a@codental.uobaghdad.edu.iq

20. Course Objectives

Course Objectiv	• Enabling students to master the Arabic language and try to keep them in touch with it as it is close to the rules of languages such as English in most cases, which requires referring to the original language for needs. • Develop the university's mind by identifying the correct scientific Arabic.

21. Teaching and Learning Strategies

Strategy	• Lectures using the [Power Point] program • Scientific discussions • Guiding students to some specialized websites • Providing students with lectures from Arabic books in grammar, literature, and spelling

22. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
١	٢	**الموضوعات الادبية** المتنبي (حياة الشاعرمع قصيدة بالاضافة الى التعليق النقدي)	Arabic Language	Theoretical lecture using Power Point	Daily, monthly, semi-annual and final exams
٢	٢	بدر شاكر السياب (حياة الشاعرمع قصيدة بالاضافة الى التعليق النقدي)	Arabic Language	Theoretical lecture using Power Point	Daily, monthly, semi-annual and final exams
٣	٢	نازك الملائكة (حياة الشاعرمع قصيدة بالاضافة الى التعليق النقدي)	Arabic Language	Theoretical lecture using Power Point	Daily, monthly, semi-annual and final exams
٤	٢	الجواهري (حياة الشاعرمع قصيدة بالاضافة الى التعليق النقدي)	Arabic Language	Theoretical lecture using Power Point	Daily, monthly, semi-annual and final exams
٥	٢	**الموضوعات النحوية** الجملة الاسمية	Arabic Language	Theoretical lecture using Power Point	Daily, monthly, semi-annual and final exams
٦	٢	الجملة الفعلية	Arabic Language	Theoretical lecture using Power Point	Daily, monthly, semi-annual and final exams
٧	٢	المبتدأ	Arabic Language	Theoretical lecture using Power Point	Daily, monthly, semi-annual and final exams
٨	٢	الخبر	Arabic Language	Theoretical lecture using Power Point	Daily, monthly, semi-annual and final exams

٩	٢	النواسخ	Arabic Language	Theoretical lecture using Power Point	Daily, monthly, semi-annual and final exams
١٠	٢	العلامات الاصلية والفرعية في الاسم والفعل المضارع	Arabic Language	Theoretical lecture using Power Point	Daily, monthly, semi-annual and final exams
١١	٢	العلامات الفرعية في الاسم والفعل المضارع	Arabic Language	Theoretical lecture using Power Point	Daily, monthly, semi-annual and final exams
١٢	٢	علامات النصب الفرعية	Arabic Language	Theoretical lecture using Power Point	Daily, monthly, semi-annual and final exams
١٣	٢	علامات الجر الفرعية	Arabic Language	Theoretical lecture using Power Point	Daily, monthly, semi-annual and final exams
١٤	٢	علامات الجزم الفرعية	Arabic Language	Theoretical lecture using Power Point	Daily, monthly, semi-annual and final exams
١٥	٢	**الموضوعات الصرفية** المشتقات	Arabic Language	Theoretical lecture using Power Point	Daily, monthly, semi-annual and final exams
١٦		اسم الفاعل	Arabic Language	Theoretical lecture using Power Point	Daily, monthly, semi-annual and final exams
١٧	٢	صيغ المبالغة	Arabic Language	Theoretical lecture using Power Point	Daily, monthly, semi-annual and final exams
١٨	٢	اسم المفعول	Arabic Language	Theoretical lecture using Power Point	Daily, monthly, semi-annual and final exams
١٩	٢	الفعل المجرد والمزيد	Arabic Language	Theoretical lecture using Power Point	Daily, monthly, semi-annual and final exams
٢٠	٢	المذكر والمؤنث وعلامات التأنيث	Arabic Language	Theoretical lecture using Power Point	Daily, monthly, semi-annual and final exams
٢١	٢	الاسم الناقص	Arabic Language	Theoretical lecture using Power Point	Daily, monthly, semi-annual and final exams
٢٢	٢	جمع الاسم المنقوص	Arabic Language	Theoretical lecture using Power Point	Daily, monthly, semi-annual and final exams
٢٣	٢	الاسم المقصور	Arabic Language	Theoretical lecture using Power Point	Daily, monthly, semi-annual and final exams
٢٤	٢	جمع الاسم المقصور	Arabic Language	Theoretical lecture using Power Point	Daily, monthly, semi-annual and final exams
٢٥	٢	الاسم الممدود	Arabic Language	Theoretical lecture using Power Point	Daily, monthly, semi-annual and final exams
٢٦	٢	جمع الاسم الممدود	Arabic Language	Theoretical lecture using Power Point	Daily, monthly, semi-annual and final exams
٢٧	٢	جموع التكسير	Arabic Language	Theoretical lecture using Power Point	Daily, monthly, semi-annual and final exams

٢٨	٢	**الموضوعات الاملائية** الحذف والزيادة الحروف التي تحذف الحروف التي تزاد	Arabic Language	Theoretical lecture using Power Point	Daily, monthly, semi-annual and final exams
٢٩	٢	الالف المقصورة والالف الممدودة التاء المربوطة والتاء المفتوحة الضاد والظاد	Arabic Language	Theoretical lecture using Power Point	Daily, monthly, semi-annual and final exams
٣٠	٢	الهمزة واحكامها علامات الترقيم	Arabic Language	Theoretical lecture using Power Point	Daily, monthly, semi-annual and final exams

23. Course Evaluation

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

15% mid exam

15% Annual pursuit (includes daily and monthly exams)

70% Final Theoretical Exam

24. Learning and Teaching Resources

Required textbooks (curricular books, if any)	اللغة العربية للاقسام غير الاختصاص
Main references (sources)	شرح ابن عقيل جامع الدروس العربية النحو الوافي قواعد دراسة اللغة العربية
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	

1. Course Name: Computer Sciences

2. Course Code: 103CS

3. Semester / Year: The first and second semesters of the first stage

4. Description Preparation Date:2025-2025

5. Available Attendance Forms: attendance in classroom for theoretical subject (weekly)

6. Number of Credit Hours (Total) / Number of Units (Total) 30 hours theoretical/٢ academic units

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

Name: Assist. prof. Dr. Suhad Sameer Hussein
Email: suhadsameer@codental.uobadghdad.edu.iq

8. Course Objectives

Course Objectives	Introduction to computer science and teaches the student the performance of computers, approved methods, programs and the use of computers in the medical field…..

9. Teaching and Learning Strategies

Strategy	1-Collaborative learning: encourages collaboration and interaction between learners, to solve problems and discuss concepts. 2-Active learning: focuses on actively engaging learners in the learning process, through the use of interactive activities such as roles, simulations, and hands-on experiences. 3-Technology-based learning: uses technology in the learning and teaching process, such as the use of multimedia and online learning.

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1+2	1	Introduction about computer /Hardware and Software/computer structure/`Floppy magnetic disks+ E-learning	Computer	Using a computer with a smart board	Daily, monthly, semi-annual and final exams
3+4	1	Introduction to E-learning Go Classroom Platform Google dri Google forms	Computer	Using a compu with	Daily, monthly, semi-annual and final exams
5+6	1	Online conferencing+ Introduc about Windows /A look at Wind 10/Stating Windows 10/Worl with a windows Program+Worl	Computer	a smart board	Daily, monthly, semi-annual and final exams

		with files and folders/ Using computer			
7+8	1	Working with Taskbar Desktop+ Using Wind Accessories	Computer	Using a compu with	Daily, monthly, semi-annual and final exams
9+10	1	A look at Control Panel+ Wid Explorer	Computer	a smart board	Daily, monthly, semi-annual and final exams
11+12	1	Libraries+ Introduction about Microsoft Word2016 A look at Microsoft Wo /Editing Document	Computer	Using a compu with	Daily, monthly, semi-annual and final exams
13	1	Formatting Text/ Formatting paragraphs/ Proofing documents	Computer	a smart board	Daily, monthly, semi-annual and final exams
14	1	Adding Tables	Computer	Using a compu with	Daily, monthly, semi-annual and final exams
15+16	1	Inserting Graphic Eleme Controlling page Appearance	Computer	a smart board	Daily, monthly, semi-annual and final exams
17+18	1	Introduction about Excels /A L at Microsoft Excel+ Modifyin Worksheet /performing Calculat	Computer	Using a compu with	Daily, monthly, semi-annual and final exams
19	1	Formatting a worksheet/ Develo a work book/ Printing Workb Contents/Customizing Layout	Computer	a smart board	Daily, monthly, semi-annual and final exams
20+21	1	Introduction about Micro Access/ A look at Micro Access+ Creating Data ta /properties of the fields	Compu	Using a compu with	Daily, monthly, semi-annual and final exams
23	1	Querying the database/Desig Forms/Producing reports	Computer	a smart board	Daily, monthly, semi-annual and final exams
24+25	1	Introduction about Microsoft Po point/starting power point2016	Computer	Using a compu with	Daily, monthly, semi-annual and final exams
26	1	Formatting text/Using graphics Text	Computer	a smart board	Daily, monthly, semi-annual

					and final exams
27+28	1	Manipulating the slides/U Multimedia Elements	Computer	Using a compu with	Daily, monthly, semi-annual and final exams
29	1	Power point Management	Computer	a smart board	Daily, monthly, semi-annual and final exams
30	1	Power point Management	Computer	Using a compu with	Daily, monthly, semi-annual and final exams

11. Course Evaluation

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

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Windows 10 Office 2016 Computer basics and office applications - parts one and two
Main references (sources)	1- Computer application management 2-E-learning concepts and technique
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	

13. Course Name: Computer Sciences

14. Course Code: 103CS

15. Semester / Year: The first and second semesters of the first stage

16. Description Preparation Date:2025-2025

17. Available Attendance Forms: attendance in classroom for theoretical subject (weekly)

18.Number of Credit Hours (Total) / Number of Units (Total) ٦٠ hours theoretical/٢academic units

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

- lecturer. Raghad khalid Raghad_meme@codental.uobaghdad.edu.iq
- Lecturer. Wood majeed Wood.majid@codentl.uobaghdad.edu.iq
- Assistant Lecturer iman amer eman.a@codental.uobaghdad.edu.iq

20. Course Objectives

Course Objectives	Introduction to computer science and teaches the student the performance of computers, approved metho programs and the use of computers in the medical field.

21. Teaching and Learning Strategies

Strategy	1-Collaborative learning: encourages collaboration and interaction between learners, to solve problems and discuss concepts. 2-Active learning: focuses on actively engaging learners in the learning process, through the use of interactive activities such as roles, simulations, and hands-on experiences. 3-Technology-based learning: uses technology in the learning and teaching process, such as the use of multimedia and online learning.

22. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1+2	1	Introduction about computer /Hardware and Software/computer structure/`Floppy magnetic disks+ E-learning	Computer	Using a computer with a smart board	Daily,monthly,semi-annual and final exams
3+4	1	Introduction to E-learni Google Classroom	Computer	Using a computer with a	Daily, monthly, semi-annual and final exams

		Platform Google drive+ Google forms		smart board	
5+6	1	Online conferencing+ Introduction about Windows /A look at Windows 10/Stating Windows 10/Working v a windows Program+Working with files and folders/ Using computer	Computer	Using a computer with a smart board	Daily, monthly, semi-annual and final exams
7+8	1	Working with Taskbar a Desktop+ Using Windo Accessories	Computer	Using a computer with a smart board	Daily, monthly, semi-annual and final exams
9+10	1	A look at Control Panel Widows Explorer	Computer	Using a computer with a smart board	Daily, monthly, semi-annual and final exams
11+12	1	Libraries+ Introduction about Microsoft Word2016 A look at Microsoft Wor /Editing Document	Computer	Using a computer with a smart board	Daily, monthly, semi-annual and final exams
13	1	Formatting Text/ Formatting paragraphs/ Proofing documents	Computer	Using a computer with a smart board	Daily, monthly, semi-annual and final exams
14	1	Adding Tables	Computer	Using a computer with a smart board	Daily, monthly, semi-annual and final exams
15+16	1	Inserting Graphic Elements+ Controlling page Appearance	Computer	Using a computer with a smart board	Daily, monthly, semi-annual and final exams
17+18	1	Introduction about Exce /A Look at Microsoft Excel+ Modifying A Worksheet /performing Calculations	Computer	Using a computer with a smart board	Daily, monthly, semi-annual and final exams
19	1	Formatting a worksheet Developing a work boo Printing Workbook Contents/Customizing Layout	Computer	Using a computer with a smart board	Daily, monthly, semi-annual and final exams
20+21+22	1	Introduction about Microsoft Access/ A loo at Microsoft Access+ Creating Data tables /properties of the fields	Computer	Using a computer with a smart board	Daily, monthly, semi-annual and final exams
23	1	Querying the database/Designing Forms/Producing report	Computer	Using a computer with a	Daily, monthly, semi-annual and final exams

				smart board	
24+25	1	Introduction about Microsoft Power point/starting power point2016	Computer	Using a computer with a smart board	Daily, monthly, semi-annual and final exams
26	1	Formatting text/Using graphics and Text	Computer	Using a computer with a smart board	Daily, monthly, semi-annual and final exams
27+28	1	Manipulating the slides/Using Multimedi Elements	Computer	Using a computer with a smart board	Daily, monthly, semi-annual and final exams
29	1	Power point Manageme	Computer	Using a computer with a smart board	Daily, monthly, semi-annual and final exams
30	1	Microsoft Acc	Computer	Using a computer with a smart board	Daily, monthly, semi-annual and final exams

23. Course Evaluation

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

24. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Windows 10 Office 2016 Computer basics and office applications - parts one and two
Main references (sources)	1-Computer application in manageme 2-E-learning concepts and techniques
Recommended books and references (scientific journals, reports…) Electronic References, Websites	

1. Course Name: Dental Anatomy

2. Course Code: 104DA

3. Semester / Year: 2025-2025

4. Description Preparation Date: 2/5/2025

5. Available Attendance Forms: Attendance in classrooms for theoretical subjects & Lab.

6. Number of Credit Hours (Total) / Number of Units (Total): 16 hrs. theoretical & 40 hrs. practical

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

Name: Samar Abdul Hamed Yasin
Email: samar.yaseen@codental.uobaghdad.edu.iq

8. Course Objectives

Course Objectives	To provide a thorough Knowledge of tooth morphology and function which is fundamental to all aspects of dental practice. As a foundational course in the pre-clinical dental curriculum, dental anatomy introduces students to the anatomical and morphological characteristics of human permanent and primary dentition. In addition, the course begins to develop students' psychomoto skills for restoring teeth to proper form and function. Students acquire knowledge to identify teeth recognize and diagnose tooth anomalies and treat or manage dental pathology. The objectives of t dental anatomy course are to provide students with essential cognitive skills related to tooth morphology and thus prepare them for skills to recreate proper tooth form in restorative clinical procedures. Dental Anatomy course provide foundational knowledge in lectures and develop students' psychomotor skills through a combination of two-dimensional drawing projects and exercises to carve teeth from wax blocks.

9. Teaching and Learning Strategies

Strategy	1. Provide the students with skills of differentiate between different teeth according to their principles identifying features. 2. Provide the students with skills of carving tooth anatomy on wax block. 3. Prepare the students for skills to recreate proper tooth form in restorative clinical procedures .

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	1	1. Athorough knowledge of dental anatomy, morphology and function of each tooth. 2. special emphasis of tooth morphology and and its clinical implication in the dental practice. 3. Students acquire knowledge to identify	**Introduction** Nomenclature Heterodent Diphyodont The Deciduous Teeth The Permanent Teeth Anterior and Posterior Teeth The Jaw Numbering Systems	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams

		teeth, recognize and diagnose tooth anomalies and treat or manage dental pathology. 4. A thorough knowledge of sequential Order of teeth according to their eruption times. 5. presenting the teaching topics in a way to be understandable to the students.	1. Universal notation system. 2. Palmer notation system. 3. FDI notation system		
2	1		**Tooth parts** Enamel Cementum Dentin Dental pulp. Anatomical crown. Clinical crown Number of roots Teeth surfaces Crown and Root Division Contact areas Embrasure spaces Line angle Point angle	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
3	1		**Anatomical Landmarks** Cusp, Tubercle, Cingulum, Ridge, Fossa, Developmental groove, Pit, mamelons, sulcus, perikymata, fissure, root trunk, furcation, periodontium: A. Alveolar Bone B. Tooth Root Surface C. Periodontal ligament D. Gingiva E. Alveolar mucosa	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
4	1		**Permanent Maxillary Central Incisor** Characteristic features of incisor's crown Permanent Maxillary Central Incisor Principal identifying features (Labial Aspect, Mesial Aspect, Distal Aspect, Lingual Aspect, Incisal Aspect).	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
5	1		**Permanent Maxillary Lateral Incisor** Principal identifying features (Labial Aspect, Mesial Aspect, Distal Aspect, Lingual Aspect, Incisal Aspect).	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams

			Variations from the typical form (Anomalies) Main Differences between Maxillary Central and Lateral Incisors		
6	1		**Permanent Mandibular Incisors** Characteristic features of Permanent mandibular Incisors Permanent Mandibular Central Incisor Principal identifying features Permanent Mandibular Lateral Incisor Principal identifying features Some differences between maxillary and mandibular central incisors Main differences between mandibular central and lateral incisors	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
7	1		**Permanent Canines** General Characteristic Features of the Canines The Permanent Maxillary Canine Principal Identifying Features The Permanent Mandibular Canine Principal Identifying Features Some differences between maxillary and mandibular canines.	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
8	1		**Permanent Maxillary Premolars** Some characteristic features to all posterior teeth Maxillary First Premolar Principal identifying features: Maxillary Second Premolar Principal identifying features Some differences between Maxillary First Premolar and Maxillary Second Premolar	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams

9	1		**Permanent Mandibular Premolars** Mandibular First Premolar Characteristics that resemble those of the mandibular canine. Characteristics that resemble those of the mandibular second premolar. Principal Identifying Features	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
10	1		**Permanent Mandibular Second Premolar** Principal Identifying Features Some differences between Mandibular First Premolar and Mandibular Second Premolar	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
11	1		**Permanent Maxillary Molars** Maxillary First Molar Principal Identifying Features	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
12	1		**Maxillary second Molar** Principal Identifying Features Maxillary third Molar Principal Identifying Features	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
13	1		**Permanent Mandibular Molars** Mandibular First Molar Principal Identifying Features Permanent Mandibular Second Molar Principal Identifying Features Mandibular Third Molar Principal Identifying Features	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
14	1		**Tooth Development** Eruption of Teeth Crown and Root Development Steps Sequential Order of Deciduous Teeth and permanent teeth According to their Eruption Times The Importance of Deciduous Teeth Principal Differences	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams

			between Deciduous and Permanent Teeth Maxillary Deciduous Teeth Mandibular Deciduous Teeth		
15	1		**Pulp Cavities** Root canal types Pulp Shape in Anterior Teeth Pulp Shape in Premolars Pulp Shape in Molars Pulp Cavities Shapes in Cross-Section of Teeth	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
16	1		***Occlusion*** Angle's classes of jaw relationships: A. Ideal Class I Occlusion B. Class II Malocclusion C. Class III Malocclusion Types of anterior teeth relationship: Types of Molars relationships in cross section:	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams

Laboratory Sessions of Dental Anatomy

No.	Titles of Sessions	hours
1	Introduction to dental anatomy , Carving Instruments , Numbering systems, Practical demonstration of Carving a Cube (1 cm*1cm*1cm)& Introduction to Anatomical landmarks on Teeth models	2
2	Description & Carving of the Labial & Incisal Aspects & Finishing of P. Max. Right central incisor	2
3	Practical Training of Carving of P. Max. Right central incisor.	2
4	Practical Exam. Of Carving of P. Max. Right central incisor	2
5	Description & Carving of the labial & Mesial & Incisal Aspects & Finishing of P. Max. Right Canine.	2
6	Practical Training. Of Carving of P. Max. Right Canine.	2
7	Practical Exam. Of Carving of P. Max. Right Canine.	2
8	Description & Carving of the Buccal & Mesial & Occlusal Aspects & Finishing of P. Max. Right 1St Premolar.	2

9	Practical Training of Carving of P. Max. Right 1St Premolar.	2
10	Practical Exam. of Carving of P. Max. Right 1St Premolar.	2
11	Description & Carving of the Buccal & Mesial & Occlusal Aspects & Finishing of P. Mand. Right 1St Premolar.	2
12	Practical Training. Of Carving of P. Mand. Right 1St Premolar.	2
13	Practical Exam. Of Carving of P. Mand. Right 1St Premolar.	2
14	Description & Carving of the Buccal & Mesial & Occlusal Aspects & Finishing of P. Max. Right 1St molar.	2
15	Practical Training of Carving of P. Max. Right 1St molar.	2
16	Practical Exam. of Carving of P. Max. Right 1St molar.	2
17	Description & Carving of the Buccal & Mesial & Occlusal Aspects & Finishing of P. Mand. Right 1St molar.	2
18	Practical Training of Carving of P. Mand. Right 1St molar.	2
19	Practical Exam. of Carving of P. Mand. Right 1St molar.	2
20	Final Practical Exam. Of tooth Carving.	2

11. Course Evaluation

Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc
15% Mid-Year Written Exam.
25% Practical Requirements
20% Final Practical Exam.
40% Final Written Exam.

12. Learning and Teaching Resources

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

25. Course Name: Human Rights and Democracy

26. Course Code:١٠٥HR

27. Semester / Year:2025-2025

28. Description Preparation Date: 6/5/2025

29. Available Attendance Forms: Attendance in the classroom of the theoretical subject

30. Number of Credit Hours (Total) / Number of Units (Total): 30 hours/ 2 units of study

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

Name: Lecturer. Hayder Ali Abdallah Email: Haider.Ali@copolicy.uobaghdad.edu.iq

32. Course Objectives

Course Objectiv	• Enable students to know civil and political rights and freedoms and try to keep them in touch with them because understanding them makes the student aware of his rights and the ceiling of his freedoms, as well as his knowledge of the history of these rights. The student's knowledge of the concept of democracy, the foundations of building a democratic state, and the types of democratic systems**..**

33. Teaching and Learning Strategies

Strategy	• Lectures using the [Power Point] program • Scientific discussions • Guiding students to some specialized websites • Providing students with lectures from Arabic books in grammar, literature, and spelling

34. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
١	٢	**Definition of human rights**	Human Rights	Theoretical lecture using Power Point	Daily, monthly, semi-annual and final exams
٢	٢	**The historical development of the idea of human rights**	Human Rights	Theoretical lecture using Power Point	Daily, monthly, semi-annual and final exams
٣	٢	The idea of human rights in heavenly laws	Human Rights	Theoretical lecture using Power Point	Daily, monthly, semi-annual and final exams
٤	٢	The development of human rights in the Middle Ages and modern	Human Rights	Theoretical lecture using Power Point	Daily, monthly, semi-annual and final exams

٥	٢	**Public freedoms / definition of public freedoms**	Human Rights	Theoretical lecture using Power Point	Daily, monthly, semi-annual and final exams
٦	٢	Types of public rights and freedoms	Human Rights	Theoretical lecture using Power Point	Daily, monthly, semi-annual and final exams
٧	٢	Human rights in national, globa and regional declarations of rights	Human Rights	Theoretical lecture using Power Point	Daily, monthly, semi-annual and final exams
٨	٢	Human Rights Declarations in Britain	Human Rights	Theoretical lecture using Power Point	Daily, monthly, semi-annual and final exams
٩	٢	Declaration of Human Rights in the United States of America	Human Rights	Theoretical lecture using Power Point	Daily, monthly, semi-annual and final exams
١٠	٢	Declaration of Human Rights in France	Human Rights	Theoretical lecture using Power Point	Daily, monthly, semi-annual and final exams
١١	٢	Universal Declaration of Huma Rights	Human Rights	Theoretical lecture using Power Point	Daily, monthly, semi-annual and final exams
١٢	٢	Human rights in regional conventions	Human Rights	Theoretical lecture using Power Point	Daily, monthly, semi-annual and final exams
١٣	٢	Arab Charter on Human Rights	Human Rights	Theoretical lecture using Power Point	Daily, monthly, semi-annual and final exams
١٤	٢	NGOs and Human Rights	Human Rights	Theoretical lecture using Power Point	Daily, monthly, semi-annual and final exams
١٥	٢	**Human rights guarantees**	Human Rights	Theoretical lecture using Power Point	Daily, monthly, semi-annual and final exams
١٦	٢	Democratic system	Democracy	Theoretical lecture using Power Point	Daily, monthly, semi-annual and final exams
١٧	٢	Definition of democracy	Democracy	Theoretical lecture using Power Point	Daily, monthly, semi-annual and final exams
١٨	٢	Direct Democracy	Democracy	Theoretical lecture using Power Point	Daily, monthly, semi-annual and final exams
١٩	٢	Institutions of direct democrac	Democracy	Theoretical lecture using Power Point	Daily, monthly, semi-annual and final exams
٢٠	٢	Representative Democracy	Democracy	Theoretical lecture using Power Point	Daily, monthly, semi-annual and final exams
٢١	٢	Characteristics of representative democracy	Democracy	Theoretical lecture using Power Point	Daily, monthly, semi-annual and final exams
٢٢	٢	Representative Democracy in Iraq	Democracy	Theoretical lecture using Power Point	Daily, monthly, semi-annual and final exams

٢٣	٢	Semi-direct democracy	Democracy	Theoretical lecture using Power Point	Daily, monthly, semi-annual and final exams
٢٤	٢	Images of semi-direct democracy	Democracy	Theoretical lecture using Power Point	Daily, monthly, semi-annual and final exams
٢٥	٢	Popular Proposal	Democracy	Theoretical lecture using Power Point	Daily, monthly, semi-annual and final exams
٢٦	٢	Removal of the deputy	Democracy	Theoretical lecture using Power Point	Daily, monthly, semi-annual and final exams
٢٧	٢	Popular solution	Democracy	Theoretical lecture using Power Point	Daily, monthly, semi-annual and final exams
٢٨	٢	Removal of the President of the Republic	Democracy	Theoretical lecture using Power Point	Daily, monthly, semi-annual and final exams
٢٩	٢	Popular referendum	Democracy	Theoretical lecture using Power Point	Daily, monthly, semi-annual and final exams
٣٠	٢	Popular objection	Democracy	Theoretical lecture using Power Point	Daily, monthly, semi-annual and final exams

35. Course Evaluation

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

15% mid exam

15% Annual pursuit (includes daily and monthly exams)

70% Final Theoretical Exam

36. Learning and Teaching Resources

Required textbooks (curricular books, if any)	حافظ علوان حمادي، حقوق الانسان
Main references (sources)	حميد حنوان خالد ، حقوق الانسان مجموعة مؤلفين، فهم حقوق الانسان دليل تعلم حقوق الانسان
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	

37. Course Name: Medical Chemistry

38. Course Code: 106CH

39. Semester / Year:2025-2025

40. Description Preparation Date: 2/5/2025

41. Available Attendance Forms: Attendance in the classroom of the theoretical subject

42. Number of Credit Hours (Total) / Number of Units (Total): 60 hours/ ٤ units of study

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

Name:Asst.Prof. Dr. Abeer Khalid Yaseen
Email: abeer.khalid@codental.uobaghdad.edu.iq
Name: Asst.Prf.Dr. Wafaa Mansour
wafaa.mansoor@codental.uobaghdad.edu.iq
Name: Asst.Prf.Dr. Eman Turky Shamkhy
eman_turkey@codental.uobaghdad.edu.iq

44. Course Objectives

Course Objecti	• The medical Chemistry lesson aims to identify the basics of chemistry in all its inorganic , organic and biological fields and its connection to dentistry

45. Teaching and Learning Strategies

Strategy	• Lectures using the [Power Point] program • Presentation of educational videos. • Guiding students to some websites to benefit from them • Follow up on students' way of thinking, expression, and speed of response throu discussions.

46. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
١	٢	Acid, Base and Salt	Medical Chemistry	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
٢	٢	salts, preparation of salts	Medical Chemistry	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams

٣	٢	Fluid and electrolyte	Medical Chemistry	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
٤	٢	Buffer-pH and Acid-Base Balance	Medical Chemistry	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
٥	٢	acid-base balance and blood pH	Medical Chemistry	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
٦	٢	Colloids and colloidal dispersions	Medical Chemistry	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
٧	٢	Chirality in Biological System (Molarity)	Medical Chemistry	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
٨	٢	Molar concentration	Medical Chemistry	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
٩	٢	Pollution	Medical Chemistry	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
١٠	٢	Radiochemistry	Medical Chemistry	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
١١	٢	Alkanes and Cycloalkanes	Medical Chemistry	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
١٢	٢	Alkenes and Alkynes	Medical Chemistry	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
١٣	٢	Aromatic compounds	Medical Chemistry	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
١٤	٢	Aromatic compounds in Nature	Medical Chemistry	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
١٥	٢	Stereoisomers of Carbon	Medical Chemistry	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
		Half-year Break			
١6	٢	Diastereomers	Medical Chemistry	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
١7	٢	Phenols (preparation, reactions)	Medical Chemistry	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
١8	٢	Carboxylic Acids And Thei Derivatives	Medical Chemistry	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
19	٢	Amides	Medical Chemistry	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
٢0	٢	Aldehydes and ketones	Medical Chemistry	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams

٢1	٢	Carbohydrates	Medical Chemistry	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
٢2	٢	Monosaccharide's	Medical Chemistry	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
٢3	٢	Disaccharides	Medical Chemistry	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
٢4	٢	Lipids	Medical Chemistry	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
٢5	٢	Derived lipids	Medical Chemistry	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
٢6	٢	Proteins and Amino Acids	Medical Chemistry	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
٢7	٢	Amino acids	Medical Chemistry	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
٢8	٢	Nucleic Acids	Medical Chemistry	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
29	٢	Nucleosides, Nucleotides	Medical Chemistry	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
30	2	Dioxy and ribo Nucliec acids	Medical Chemistry	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams

47. Course Evaluation

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

15% mid exam

25% Annual pursuit (includes daily and monthly exams and practical requirements)

20% Final practical exam

40% Final Theoretical Exam

48. Learning and Teaching Resources

Required textbooks (curricular books, if any)	The Chemical Basis Of Life :General ,Organic, and Biological Chemistry for the Health Sciences By George H. Schmid
Main references (sources)	A text-book of macro a semimicro qualitative inorga analysis.

	Fifth Edition Revised by G. Svehla, Ph. D., D. Sc., F. R. I Reader in Analytical Chemist Queen's University, Belfast
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	

49.	Course Name: Medical Chemistry
50.	Course Code: 106CH
51.	Semester / Year: : 2025/2025
52.	Description Preparation Date: 2/5/2025
53.	Available Attendance Forms: Attendance in the laboratories for practical subjects
54.	Number of Credit Hours (Total) / Number of Units (Total): 60 hours/ ٢ units of study
55.	Course administrator's name (mention all, if more than one name)

Name: Asst.Prof. Dr. Abeer Khalid Yaseen

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Asst.Prof. Dr. wafa mansor

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56.	Course Objectives
	• **Prepare the student practically in terms of applying the acquired knowledge**

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

57. Teaching and Learning Strategies

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

58. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation metho
١	2	Safety of chemicals part 1	Medical Chemistry	Explaining the theoretical part using power point and then applying the practical part	Short exams, evaluation of the practical part, and th exam
2	2	Safety of chemicals part2	Medical Chemistry	Explaining the theoretical using power point and applying the practical part	Short exams, evaluation of the practical part, and th exam
3	2	Action of Strong Base and Acids	Medical Chemistry	Explaining the theoretical using power point and applying the practical part	Short exams, evaluation of the practical part, and th exam
4	2	Solubility rules and Applications (Solubility rules of salts).	Medical Chemistry	Explaining the theoretical using power point and applying the practical part	Short exams, evaluation of the practical part, and th exam
5	2	Test for negative ions (Anions).pa 1	Medical Chemistry	Explaining the theoretical using power point and applying the practical part	Short exams, evaluation of the practical part, and th exam
6	2	Test for negative ions (Anions). p 2	Medical Chemistry	Explaining the theoretical using power point and applying the practical part	Short exams, evaluation of the practical part, and th exam
7	2	PH meter	Medical Chemistry	Explaining the theoretical using power point and applying the practical part	Short exams, evaluation of the practical part, and th exam
8	2	Test for positive ions (Cations). p 1	Medical Chemistry	Explaining the theoretical using power point and applying the practical part	Short exams, evaluation of the practical part, and th exam
9	2	Test for positive ions (Cations). p 2	Medical Chemistry	Explaining the theoretical using power point and applying the practical part	Short exams, evaluation of the practical part, and th exam
10	2	Titration	Medical Chemistry	Explaining the theoretical using power point and applying the practical part	Short exams, evaluation of the

					practical part, and the exam
11	2	hydrocarbons	Medical Chemistry	Explaining the theoretical using power point and applying the practical part	Short exams, evaluation of the practical part, and the exam
12	2	Aliphatic Hydrocarbons	Medical Chemistry	Explaining the theoretical using power point and applying the practical part	Short exams, evaluation of the practical part, and the exam
١٣	2	Aromatic hydrocarbons Part.1	Medical Chemistry	Explaining the theoretical using power point and applying the practical part	Short exams, evaluation of the practical part, and the exam
١٤	2	Aromatic hydrocarbons Part.2	Medical Chemistry	Explaining the theoretical using power point and applying the practical part	Short exams, evaluation of the practical part, and the exam
١٥	2	Preparation of aspirin	Medical Chemistry	Explaining the theoretical using power point and applying the practical part	Short exams, evaluation of the practical part, and the exam
16	2	alcohol	Medical Chemistry	Explaining the theoretical using power point and applying the practical part	Short exams, evaluation of the practical part, and the exam
17	2	Phenols reactions	Medical Chemistry	Explaining the theoretical using power point and applying the practical part	Short exams, evaluation of the practical part, and the exam
18	2	Aldehydes and ketones	Medical Chemistry	Explaining the theoretical using power point and applying the practical part	Short exams, evaluation of the practical part, and the exam
19	2	Carboxylic Acids reactions part 1	Medical Chemistry	Explaining the theoretical using power point and applying the practical part	Short exams, evaluation of the practical part, and the exam
20	2	Carboxylic Acids reactions part 2	Medical Chemistry	Explaining the theoretical using power point and applying the practical part	Short exams, evaluation of the practical part, and the exam
21	2	Carbohydrates reactions	Medical Chemistry	Explaining the theoretical using power point and applying the practical part	Short exams, evaluation of the practical part, and the exam
22	2	Monosaccharides reactions	Medical Chemistry	Explaining the theoretical using power point and applying the practical part	Short exams, evaluation of the practical part, and the exam
23	2	Disaccharides reactions	Medical Chemistry	Explaining the theoretical using power point and applying the practical part	Short exams, evaluation of the practical part, and the exam
24	2	Lipids reactions part 1	Medical Chemistry	Explaining the theoretical using power point and applying the practical part	Short exams, evaluation of the practical part, and the exam
25	2	Lipids reactions part 2	Medical Chemistry	Explaining the theoretical using power point and applying the practical part	Short exams, evaluation of the practical part, and the exam
26	2	Proteins reactions	Medical Chemistry	Explaining the theoretical using power point and applying the practical part	Short exams, evaluation of the practical part, and the exam

27	2	Amino acids reactions	Medical Chemistry	Explaining the theoretical using power point and applying the practical part	Short exams, evaluation of the practical part, and the exam
28	2	Paper chromatography part 1	Medical Chemistry	Explaining the theoretical using power point and applying the practical part	Short exams, evaluation of the practical part, and the exam
29	2	Paper chromatography Part 2	Medical Chemistry	Explaining the theoretical using power point and applying the practical part	Short exams, evaluation of the practical part, and the exam
30	2	osmosis	Medical Chemistry	Explaining the theoretical using power point and applying the practical part	Short exams, evaluation of the practical part, and the exam

59. Course Evaluation

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

7% Annual pursuit (includes daily and monthly exams and practical requirements)
20% Final practical exam

60. Learning and Teaching Resources

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

1. Course Name:

Medical Physics

2. Course Code:

Medical Physics 107PS

3. Semester / Year:

2025-2025

4. Description Preparation Date:

2/5/2025

5. Available Attendance Forms:

Lectures and laboratory work

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

60 hours laboratory /2 laboratory

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

Name: Jaafar M.Mousa Email: jafar.jafar92@codental.UoBaghdad.edu.iq
Name: Salim J. Attia..... Email: salim.attia@codental.uobaghdad.edu.iq
Name: Amal Y. Al-Yasiri Email: Amal.al-yasiri@codental.uobaghdad.edu.iq

8. Course Objectives

Course Objectives	Medical Physics is the application of physics to medicine. It uses physics concepts and procedures in the prevention, diagnosis, and treatment of disease. Medical Physics fulfills a key role in medicine, in biological and medical research, and in the optimization of certain health related active.

9. Teaching and Learning Strategies

Strategy	1-The relation between physics and human 2- The effect of physics inside human body 3- The application of physics on human body, diagnosis, therapy 4- Enhancement body function using physical method 5- The relation of all these factors with human 6- Lecture and discussion to give good idea 7- The experiment in the lap, and doing report 8- Using technical learning

10. Course Structure

Week	Hours	**Required Learning Outcomes**	**Unit or subject name**	**Learning method**	**Evaluation method**
1-2	**2**	**Terminology** Terms: Medical Physics, physical medicine, Physical therapy, Health Physics, Radiological Physics, clinical physics.	Medical Physics	Theoretical part done using power point	Examination is Quizzes, Semester and final year

3-4	**2**	Modeling, Accuracy Precision, False Positive, False Negative. ***Force on &in body:*** Static forces :(type of levers with medical examples). Dynamic forces (Centrifuge)	Medical Physics	Theoretical part done using power point	Examination is Quizzes, Semester and final year
5-6	**2**	***Physics of the skeleton:*** Bones:(Function of bones, Composition of bone, bone remodeling, compact and trabecular bone) Stress-strain curve :(compressive and tensile stress, young modulus). Bone joints :(Synovial fluid, coefficient of a joint).	Medical Physics	Theoretical part done using power point	Examination is Quizzes, Semester and final year
7-8	**2**	***Heat and cold in medicine:*** Physical basis of heat and temperature, Temperature scales, Converting Temperatures, Temperatur Dentistry, Thermal expans (Linear, Area, Volume Thermal Expansion), Thermometry, Heat therap Thermography, Cold in medicine and cryosurgery. Thermal conductivity.	Medical Physics	Theoretical part done using power point	Examination is Quizzes, Semester and final year
9-10	**2**	***Energy, work and power of the body:*** First law of thermodynamic. Energy change in the body (Met, Basal metabolic rate (BMR). Work and power. Efficienc heat losses from the body. Anaerobic phase and aerob phase. Hypothalamus (bod thermostat).Heat lost by (radiation, convection, evaporation of sweat and respiration).	Medical Physics	Theoretical part done using power point	Examination is Quizzes, Semester and final year
11-12	**2**	***Pressure:*** Definition, absolute pressu gauge pressure, negative pressure, unit of pressure. Measurement of pressure i the body (Manometer).Pressure insi the skull. Eye pressure.	Medical Physics	Theoretical part done using power point	Examination is Quizzes, Semester and final year

13-14	**2**	Pressure in the skeleton. Pressure in the urinary bladder.Boyle's law: (press while diving).HOT (hyperbaric oxygen therap ***Electricity within the body:*** Electrical potential of nerves (resting potential, action potential in myelinated and unmyelinated nerves) Electromyogram (EMG). Electrical potential in the heart (electrocardiogram ECG). Electroencephalogram (EEG)	Medical Physics	Theoretical part done using power point	Examination is Quizzes, Semester and final year
	2	***Sound in medicine:*** **Properties of sound. Stethoscope (including heart sound).mechanism of hearing *Ultrasound* (A-scan, B-scan, M-scan and Doppler effect). Physiological effect of ultrasound in therapy**.	Medical Physics	Theoretical part done using power point	Examination is Quizzes, Semester and final year
15-16	**2**	***Light in medicine:*** Light nature, Planck Equat (Reflection, Refraction and Absorption of Light, Properties of light), Diffus reflection, Specular reflect Phototherapy, Application ultraviolet and infrared ligh in medicine, Tanning and Skin Cancer.	Medical Physics	Theoretical part done using power point	Examination is Quizzes, Semester and final year
17-18	**2**	***Laser in medicine***. What is laser? Application of laser in medicine Atomic Transitions, Population inversion, Lase Typical Characteristics, General Applications of Laser, Laser Dental Applications, Reshape gun tissue, Laser aided teeth whitening, Laser Drill.	Medical Physics	Theoretical part done using power point	Examination is Quizzes, Semester and final year
	2	***Physics of eye and vision:***			Examination is Quizzes,

19-20 **21-22** **23-24** **25-26** **27-28** **29-30**	**2** **2**	Focusing element of the eye (cornea, lens). Element of the eye (pupil, aqueous humor, vitreous humor, sclera).Visual acuity, Snellen chart, optical density. ***Physics of diagnostic X-ray:*** Properties of X-ray, production of X-ray. Absorption of X-ray, contrast media-ray image (penumbra, grid, and intensifying screens).Radiation to patients from X-ray (filters). ***Physics of nuclear medicine:*** Radioactivity decay, half-life, units. Basic instrumentation and its medical application (GM-tube, Photomultiplier tube, scintillation detector, solid state detector).Therapy with radioactivity. Radiation doses in nuclear medicine. ***Physics of radiation therapy:*** The dose units (Rad and Gray).Principles of radiation therapy. Brach therapy, quality factor (QF).	Medical Physics Medical Physics	Theoretical part done using power point Theoretical part done using power point	Semester and final year Examination is Quizzes, Semester and final year

11. Course Evaluation

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

15% middle year 25% semester exam 20% practical final exam 40% final exam	
12. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	Medical Physics by John Cameron Physics of the human body by Irving Herman
Main references (sources)	
Recommended books and references (scientific journals, reports…)	physics for scientists and engineer, Raymond A, serway, 1987.
Electronic References, Websites	

1. Course Name:
Medical Physics
2. Course Code:
Medical Physics 107PS
3. Semester / Year:
2025−2025
4. Description Preparation Date:
2/5/2025
5. Available Attendance Forms:
Lectures and laboratory work
6. Number of Credit Hours (Total) / Number of Units (Total)
60 hours theoretical /60 hours laboratory / 4 credit theoretical laboratory
7. Course administrator's name (mention all, if more than one name)
Name: Jaafar M.Mousa Email: jafar.jafar92@codental.UoBaghdad.edu.iq Name: Salim J. Attia..... Email: salim.attia@codental.uobaghdad.edu.iq Name: Amal Y. Al-Yasiri Email: Amal.al-yasiri@codental.uobaghdad.edu.iq
8. Course Objectives

Course Objectives	Medical Physics is the application of physics to medicine. It uses physics concepts and procedures in the prevention, diagnosis, and treatment of disease. Medical Physics fulfills a key role in medicine, in biological and medical research, and in the optimization of certain health related active.

9. Teaching and Learning Strategies	
Strategy	1-The relation between physics and human 2- The effect of physics inside human body 3- The application of physics on human body, diagnosis, therapy 4- Enhancement body function using physical method 5- The relation of all these factors with human 6- Lecture and discussion to give good idea 7- The experiment in the lap, and doing report 8- Using technical learning

Lap Course Structure

weak	Hours	Name of Experiment	Unit or subject name	Required Learning Outcomes	Evaluation method
1	**2**	Guidelines of Medical Physics Lab and Rules must be obeyed by the students	Medical Physics	Discussion theoretical side using power point, then making the practice part	Examination Quizzes, and final Exam
2	**2**	Graphing Techniques	Medical Physics	Discussion theoretical side using power point, then making the practice part	Examination Quizzes, and final Exam
3	**2**	Ohm's law: - verify ohm's law - to find the value of different values of resistance	Medical Physics	Discussion theoretical side using power point, then making the practice part	Examination Quizzes, and final Exam

4	**2**	Ohm's law: - verify ohm's law - to find the value of different values of resistance	Medical Physics	Discussion theoretical side using power point, then making the practice part	Examination Quizzes, and final Exam
5	**2**	**Semiconductors (junction diode):** To determine the characteristics of the semiconductors Comparison between omic and non-omic resistance	Medical Physics	Discussion theoretical side using power point, then making the practice part	Examination Quizzes, and final Exam
6	**2**	**Semiconductors (junction diode):** To determine the characteristics of the semiconductors Comparison between omic and non-omic resistance	Medical Physics	Discussion theoretical side using power point, then making the practice part	Examination Quizzes, and final Exam
7	**2**	**Cathode Ray Oscilloscope** -Measurement of deflection sensitivity of D. C. voltage. -Measurement of deflection sensitivity of A. C. voltage	Medical Physics	Discussion theoretical side using power point, then making the practice part	Examination Quizzes, and final Exam
8	**2**	**Cathode Ray Oscilloscope** -Measurement of deflection sensitivity of D. C. voltage. -Measurement of deflection sensitivity of A. C. voltage	Medical Physics	Discussion theoretical side using power point, then making the practice part	Examination Quizzes, and final Exam
9	**2**	**The focal length of convex lens:** -Rough value of focal length of different convex lenses,	Medical Physics	Discussion theoretical side using power point, then	Examination Quizzes, and final Exam

		-A graphical method of measuring of focal length, Comparison between these methods and the given value.		making the practice part	
10	**2**	**The focal length of convex lens:** -Rough value of focal length of different convex lenses, -A graphical method of measuring of focal length, Comparison between these methods and the given value.	Medical Physics	Discussion theoretical side using power point, then making the practice part	Examination Quizzes, and final Exam
11	**2**	**Hook's law:** -To verify Hook's law and determine the force constant of the spring. -To determine the work done by stretching the spring.	Medical Physics	Discussion theoretical side using power point, then making the practice part	Examination Quizzes, and final Exam
12	**2**	**Hook's law:** -To verify Hook's law and determine the force constant of the spring. -To determine the work done by stretching the spring.	Medical Physics	Discussion theoretical side using power point, then making the practice part	Examination Quizzes, and final Exam
13	**2**	**Focal length of concave mirror:** -Locating the radius of curvature -Determining the focal length	Medical Physics	Discussion theoretical side using power point, then making the practice part	Examination Quizzes, and final Exam
14	**2**	**Focal length of concave mirror:** -Locating the radius of curvature	Medical Physics	Discussion theoretical side using power point, then	Examination Quizzes, and final Exam

		-Determining the focal length		making the practice part	
15	**2**	General review and 1st course exam	Medical Physics	Discussion theoretical side using power point, then making the practice part	Examination Quizzes, and final Exam
16	**2**	**Laser applications:** -To measure the width of a single slit by using a laser -To measure the wavelength of laser by using a certain single slit	Medical Physics	Discussion theoretical side using power point, then making the practice part	Examination Quizzes, and final Exam
17	**2**	**Boyle's law:** -To verify Boyle's law -To measure the pressure of the atmosphere	Medical Physics	Discussion theoretical side using power point, then making the practice part	Examination Quizzes, and final Exam
18	**2**	**Boyle's law:** -To verify Boyle's law -To measure the pressure of the atmosphere	Medical Physics	Discussion theoretical side using power point, then making the practice part	Examination Quizzes, and final Exam
19	**2**	**Inverse Square law:** - To verify the inverse square law - Radiation shielding by different thicknesses of of a certain material	Medical Physics	Discussion theoretical side using power point, then making the practice part	Examination Quizzes, and final Exam

20	**2**	**Inverse Square law:** - To verify the inverse square law - Radiation shielding by different thicknesses of of a certain material	Medical Physics	Discussion theoretical side using power point, then making the practice part	Examination Quizzes, and final Exam
21	**2**	**Viscosity of a liquid** - To determine the viscosity of a medium using a small sphere falls with a constant terminal velocity. - To verify Stokes' law	Medical Physics	Discussion theoretical side using power point, then making the practice part	Examination Quizzes, and final Exam
22	**2**	**Viscosity of a liquid** - To determine the viscosity of a medium using a small sphere falls with a constant terminal velocity. - To verify Stokes' law	Medical Physics	Discussion theoretical side using power point, then making the practice part	Examination Quizzes, and final Exam
23	**2**	**Velocity of the sound** - To measure the velocity of the sound by using a resonance tube, closed at one end, at room temperature. - Calculated the theoretical and practical values of the velocity of sound and comparing between them.	Medical Physics	Discussion theoretical side using power point, then making the practice part	Examination Quizzes, and final Exam
24	**2**	**Velocity of the sound** - To measure the velocity of the sound by using a resonance tube, closed at one end, at room temperature. - Calculated the theoretical and	Medical Physics	Discussion theoretical side using power point, then making the practice part	Examination Quizzes, and final Exam

		practical values of the velocity of sound and comparing between them.			
25	**2**	**The focal length of a converging lens** - To determine the focal length of a converging lens by lens displacement method using conjugate foci. - To calculate curvature value of this converging lens	Medical Physics	Discussion theoretical side using power point, then making the practice part	Examination Quizzes, and final Exam
26	**2**	**The focal length of a converging lens** - To determine the focal length of a converging lens by lens displacement method using conjugate foci. - To calculate curvature value of this converging lens	Medical Physics	Discussion theoretical side using power point, then making the practice part	Examination Quizzes, and final Exam
27	**2**	**Simple Pendulum** -To determine the periodic time and its variation with the length of the pendulum -To calculate the acceleration of free fall	Medical Physics	Discussion theoretical side using power point, then making the practice part	Examination Quizzes, and final Exam
28	**2**	**Simple Pendulum** -To determine the periodic time and its variation with the length of the pendulum -To calculate the acceleration of free fall	Medical Physics	Discussion theoretical side using power point, then making the practice part	Examination Quizzes, and final Exam

29	**2**	General review and 2nd course exam	Medical Physics	Discussion theoretical side using power point, then making the practice part	Examination Quizzes, and final Exam
30	**2**	General review and 2nd course exam	Medical Physics	Discussion theoretical side using power point, then making the practice part	Examination Quizzes, and final Exam

10. Course Evaluation	
Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc 15% middle year 25% semester exam 20% practical final exam 40% final exam	
11. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	Medical Physics by John Cameron Physics of the human body by Irving Herman
Main references (sources)	
Recommended books and references (scientific journals, reports…)	physics for scientists and engineer, Raymond A, serway, 1987.
Electronic References, Websites	

61. Course Name: Medical biology
62. Course Code: 108 BL
63. Semester / Year:2025-2025

64. Description Preparation Date:٣-5-2025	
65.Available Attendance Forms: Attendance in the classroom for the theoretical subject	
66.Number of Credit Hours (Total) / Number of Units (Total): 60hr /٤ unit	
67. Course administrator's name (mention all, if more than one name)	
Name:1- Fadia Abdalmuhsin fadia.khayat@codental.uobaghdad.edu.iq 2-Sumaiah Ibraheem sumaiahibraheem@codental.uobaghdad.edu.iq 3-Balkes Fadel balkes.f@covm.uobaghdad.edu.iq	
68. Course Objectives	
Course Objectives	**• Introduction to general biology** **• Study of cell and tissue science** **• Study of medical parasitology**
69. Teaching and Learning Strategies	
Strategy	• Lecture strategy [power point (data show)] • E-learning strategy • Discussion strategy
70. Course Structure	

Evaluation method	Teaching method	Name of the unit/course or subject	Subject vocabulary	hours	week
Short exams, semester exams, and the final exam	A theoretical lecture using Power Point	Medical Biology	Introduction to biology	٢	١
Short exams, semester exams, and the final exam	A theoretical lecture using Power Point	Medical Biology	Bacteriology	٢	٢
Short exams, semester exams, and the final exam	A theoretical lecture using Power Point	Medical Biology	Human Genetics (part 1)	٢	٣
Short exams, semester exams, and the final exam	A theoretical lecture using Power Point	Medical Biology	Human Genetics (part 2)	٢	٤
Short exams, semester exams, and the final exam	A theoretical lecture using Power Point	Medical Biology	Immunity	٢	٥
Short exams, semester exams, and the final exam	A theoretical lecture using Power Point	Medical Biology	Cell structure	٢	٦
Short exams, semester exams, and the final exam	A theoretical lecture using Power Point	Medical Biology	Cell organelle	٢	٧
Short exams, semester exams, and the final exam	A theoretical lecture using Power Point	Medical Biology	Epithelial tissue	٢	٨
Short exams, semester exams, and the final exam	A theoretical lecture using Power Point	Medical Biology	Glandular tissue	٢	٩
Short exams, semester exams, and the final exam	A theoretical lecture using Power Point	Medical Biology	Proper connective tissue	٢	١٠
Short exams, semester exams, and the final exam	A theoretical lecture using Power Point	Medical Biology	Specialized connective tissue	٢	١١
Short exams, semester exams, and the final exam	A theoretical lecture using Power Point	Medical Biology	Muscular tissue	٢	١٢

Short exams, semester exams, and the final exam	A theoretical lecture using Power Point	Medical Biology	Nervous tissue	٢	١٣
Short exams, semester exams, and the final exam	A theoretical lecture using Power Point	Medical Biology	Stem cells	٢	١٤
Short exams, semester exams, and the final exam	A theoretical lecture using Power Point	Medical Biology	Exam	٢	١٥
	Half-year Break				
Evaluation method	**Teaching method**	**Name of the unit/course or subject**	**Subject vocabulary**	**hours**	**week**
Short exams, semester exams, and the final exam	A theoretical lecture using Power Point	Medical Biology	Transport across cell membrane	٢	١٦
Short exams, semester exams, and the final exam	A theoretical lecture using Power Point	Medical Biology	Cellular metabolism	٢	١٧
Short exams, semester exams, and the final exam	A theoretical lecture using Power Point	Medical Biology	Cell division(mitosis)	٢	١٨
Short exams, semester exams, and the final exam	A theoretical lecture using Power Point	Medical Biology	Cell division (meiosis)	٢	١٩
Short exams, semester exams, and the final exam	A theoretical lecture using Power Point	Medical Biology	Cellular interaction (stable interaction)	٢	٢٠
Short exams, semester exams, and the final exam	A theoretical lecture using Power Point	Medical Biology	Cellular interaction (transient interaction)	٢	٢١
Short exams, semester exams, and the final exam	A theoretical lecture using Power Point	Medical Biology	Introduction to biotechnology	٢	٢٢

Short exams, semester exams, and the final exam	A theoretical lecture using Power Point	Medical Biology	Introduction to parasitology	٢	٢٣
Short exams, semester exams, and the final exam	A theoretical lecture using Power Point	Medical Biology	Protozoa:sarcodina	٢	٢٤
Short exams, semester exams, and the final exam	A theoretical lecture using Power Point	Medical Biology	Protozoa:flagellata	٢	٢٥
Short exams, semester exams, and the final exam	A theoretical lecture using Power Point	Medical Biology	Protozoa:ciliataand sporozoa	٢	٢٦
Short exams, semester exams, and the final exam	A theoretical lecture using Power Point	Medical Biology	Platyhelminthes:trematoda	٢	٢٧
Short exams, semester exams, and the final exam	A theoretical lecture using Power Point	Medical Biology	Platyhelminthes:cestoda	٢	٢٨
Short exams, semester exams, and the final exam	A theoretical lecture using Power Point	Medical Biology	Nematoda	٢	٢٩
Short exams, semester exams, and the final exam	A theoretical lecture using Power Point	Medical Biology	Exam	٢	٣٠

71. Course Evaluation

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

15% midyear
25% annual pursuit (includes summer training, daily and monthly exams, and practical requirements)
20% final practical exam
40% final theoretical exam

72. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Human biology
Main references (sources)	**1-** 1-Paniker's Textbook of Medical parasitiolgy eight edition(2018)

	2- Textbook of Histology , (2020) by Leslie P. Gartner , Elsevier Health Sciences, Medical - 704 pages**.** **3-** CELL BIOLOGY, Third edition. (2٠17) Thomas. D; William .C; Jennefer. L. and Graham. T. Printed in U.S.A.
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	https://openstax.org/books/anatomy-and-physiology/pages/1-introduction https://www.cdc.gov/index.htm

73. Course Name: Medical biology
74. Course Code: 108 BL
75. Semester / Year:2025−2025
76. Description Preparation Date:2−5−2025
77.Available Attendance Forms: laboratories for practical material
78.Number of Credit Hours (Total) / Number of Units (Total): 60hr /٢ unit
79. Course administrator's name (mention all, if more than one name)
Name:1- Fadia Abdalmuhsin fadia.khayat@codental.uobaghdad.edu.iq 2-Sumaiah Ibraheem sumaiahibraheem@codental.uobaghdad.edu.iq

3-Balkes Fadel balkes.f@covm.uobaghdad.edu.iq 4-Rasha Mohammed Shaker drjamalani@codental.uobaghdad.edu.iq	
80. Course Objectives	
Course Objectives	**• Introduction to general biology** **• Study of cell and tissue science** **• Study of medical parasitology**
81. Teaching and Learning Strategies	
Strategy	• Lecture strategy [power point (data show)] • E-learning strategy • Discussion strategy
82. Course Structure	

١١Course structure (practical aspect)					
Evaluation method	**Teaching method**	**Name of the unit/course or subject**	**Subject vocabulary**	**hours**	**week**
Short exams, evaluation of the practical part, and the final exam	Explaining the theoretical part using power point and then applying the practical part	**Medical biology**	Laboratory safety	2	١
Short exams, evaluation of the practical part, and the final exam	Explaining the theoretical part using power point and then applying the practical part	**Medical biology**	Microscope	2	٢
Short exams, evaluation of the practical part, and the final exam	Explaining the theoretical part using power point and then applying the practical part	**Medical biology**	Types of animal cells	2	٣
Short exams, evaluation of the practical part, and the final exam	Explaining the theoretical part using power point and then applying the practical part	**Medical biology**	Bacteriology	2	٤
Short exams, evaluation of the practical part, and the final exam	Explaining the theoretical part using power point and then applying the practical part	**Medical biology**	Simple epithelial cells	2	٥
Short exams, evaluation of the practical part, and the final exam	Explaining the theoretical part using power point and then applying the practical part	**Medical biology**	Stratified epithelial cell	2	٦
Short exams, evaluation of the practical part, and the final exam	Explaining the theoretical part using power point and then applying the practical part	**Medical biology**	Elements of connective tissue	2	٧
Short exams, evaluation of the practical part, and the final exam	Explaining the theoretical part using power point and then applying the practical part	**Medical biology**	Proper connective tssue	2	٨
Short exams, evaluation of the practical part, and the final exam	Explaining the theoretical part using power point and then applying the practical part	**Medical biology**	Specialized connective tissue Bone	2	٩
Short exams, evaluation of the practical part, and the final exam	Explaining the theoretical part using power point and then applying the practical part	**Medical biology**	Specialized connective tissue Cartilage	2	١٠

Short exams, evaluation of the practical part, and the final exam	Explaining the theoretical part using power point and then applying the practical part	**Medical biology**	Specialized connective tissue Blood	2	١١
Short exams, evaluation of the practical part, and the final exam	Explaining the theoretical part using power point and then applying the practical part	**Medical biology**	Glandular tissue Part 1	2	١٢
Short exams, evaluation of the practical part, and the final exam	Explaining the theoretical part using power point and then applying the practical part	**Medical biology**	Glandular tissue Part 2	2	١٣
Short exams, evaluation of the practical part, and the final exam	Explaining the theoretical part using power point and then applying the practical part	**Medical biology**	Muscular tissue	2	١٤
Short exams, evaluation of the practical part, and the final exam	Explaining the theoretical part using power point and then applying the practical part	**Medical biology**	Nervous tissue	2	١٥
Short exams, evaluation of the practical part, and the final exam	Explaining the theoretical part using power point and then applying the practical part	**Medical biology**	Entamoeba spp	2	16
Short exams, evaluation of the practical part, and the final exam	Explaining the theoretical part using power point and then applying the practical part	**Medical biology**	***Giardia lambelia* and Trichmonas spp**	2	17
Short exams, evaluation of the practical part, and the final exam	Explaining the theoretical part using power point and then applying the practical part	**Medical biology**	Leishmania sp	2	18
Short exams, evaluation of the practical part, and the final exam	Explaining the theoretical part using power point and then applying the practical part	**Medical biology**	Trypanosoma spp	2	19
Short exams, evaluation of the practical part, and the final exam	Explaining the theoretical part using power point and then applying the practical part	**Medical biology**	Plasmodium spp	2	20
Short exams, evaluation of the practical part, and the final exam	Explaining the theoretical part using power point and then applying the practical part	**Medical biology**	Balantidium spp	2	21

Short exams, evaluation of the practical part, and the final exam	Explaining the theoretical part using power point and then applying the practical part	**Medical biology**	*Faciola hepatica*	2
Short exams, evaluation of the practical part, and the final exam	Explaining the theoretical part using power point and then applying the practical part	**Medical biology**	Schistosoma spp	2
Short exams, evaluation of the practical part, and the final exam	Explaining the theoretical part using power point and then applying the practical part	**Medical biology**	*Echinococcus granulosus*	2
Short exams, evaluation of the practical part, and the final exam	Explaining the theoretical part using power point and then applying the practical part	**Medical biology**	*Taenia saginata*	2
Short exams, evaluation of the practical part, and the final exam	Explaining the theoretical part using power point and then applying the practical part	**Medical biology**	*Taenia solium*	2
Short exams, evaluation of the practical part, and the final exam	Explaining the theoretical part using power point and then applying the practical part	**Medical biology**	Ancylstoma spp	2
Short exams, evaluation of the practical part, and the final exam	Explaining the theoretical part using power point and then applying the practical part	**Medical biology**	Ascaris spp	2
Short exams, evaluation of the practical part, and the final exam	Explaining the theoretical part using power point and then applying the practical part	**Medical biology**	*Enterobius vermicularis*	2
Short exams, evaluation of the practical part, and the final exam		**Medical biology**	seminar	

83. Course Evaluation

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

15% midyear
25% annual pursuit (includes summer training, daily and monthly exams, and practical requirements)
20% final practical exam
40% final theoretical exam

84. Learning and Teaching Resources

Required textbooks (curricular books, if ar	Human biology
Main references (sources)	**1-** 1-Paniker's Textbook of Medical parasitiolgy eight edition(2018) **2-** Textbook of Histology , (2020) by Leslie P. Gartner , Elsevier Health Sciences, Medical - 704 pages. **3-** CELL BIOLOGY, Third edition. (2٠17) Thomas. D; William .C; Jennefer. L. and Graham. T. Printed in U.S.A.
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	https://openstax.org/books/anatomy-and-physiology/pages/1-introduction https://www.cdc.gov/index.htm

1. Course Name: English

2. Course Code: 109EL

3. Semester / Year: 2025-2025

4. Description Preparation Date: 4/5/2025

5. Available Attendance Forms: Student attendance theoretical lectures

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

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

Name: Dr Maha Mohsin Khalaf
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Name: Dr Saleha Saheb Mosa shubber
Email: Saleha.saheb@codental.uobaghdad.edu.iq

8. Course Objectives

Course Objectives	**–Preparing the students so they can deal**

	with English terms during their study in dental college and beyond **–Introducing dental students to the most important medical terms related to each system in the body**

9. Teaching and Learning Strategies

Strategy	Students Collaborative method Brainstorming Correlating images with the terms

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
١	١	Learning parts of medical terms composition	Prefixes & suffixes	Theoretical lectu	Daily, monthly and midterm exams
٢	١	Learning English terms related to skin	Integumentary system	Theoretical lectu	Daily, monthly and midterm exams
٣	١	Understanding English words related to muscles and movements	Muscular System	Theoretical lectu	Daily, monthly and midterm exams
٤	١	Learning English terms related to respiratory system	Respiratory System	Theoretical lectu	Daily, monthly and midterm exams
٥	١	Learning the Eng words concern with the diges system	Digestive System	Theoretical lectu	Daily, monthly and midterm exams
٦	١	The students learn English terms in relation to nervous system	Nervous System	Theoretical lectu	Daily, monthly and midterm exams
٧	١	The students learn English words in relation cardiovascular system	Cardiovascular System	Theoretical lectu	Daily, mon and midt exams
٨	١	The students learn how to identify parts of blood and lymph component using English words	Blood and Lymph	Theoretical lectu	Daily, mon and midt exams
٩	١	The students learn English words related to immune system	Immune System	Theoretical lectu	Daily, mon and midt exams

١٠	١	The students learn English terms related to glands and their secretions	Endocrine System	Theoretical lectu	Daily, mon and midt exams
١١	١	The students learn English words to express five senses	Five Senses	Theoretical lectu	Daily, mon and midt exams
١٢	١	The students learn English terms related to reproductive and urinary system	Genitourinary System	Theoretical lectu	Daily, mon and midt exams
١٣	١	The student learn English terms related to dentistry	Dental Terminology Part	Theoretical lectu	Daily, mon and midt exams
١٤	١	The student learn English terms related to dentistry	Dental Terminology Par	Theoretical lectu	Daily, mon and midt exams
١٥	١	The student learn English terms related to dentistry	Dental terminology Part	Theoretical lectu	Daily, monthly and midterm exams
١٦	١	The student learn how to present their ideas as small talks	Small Talk	Theoretical lectu	Daily, monthly and midterm exams
١٧	١	The students learn not to fall into common mistakes	Common Mistakes	Theoretical lectu	Daily, monthly and midterm exams
١٨	١	The students learn passive voice roles	Passive Voice	Theoretical lectu	Daily, monthly and midterm exams
١٩	١	The students learn the difference between direct and indirect speech	Direct and Indirect Spee	Theoretical lectu	Daily, monthly and midterm exams
٢٠	١	Students learn that words in English may have different synonyms	Synonyms	Theoretical lectu	Daily, monthly and midterm exams
٢١	١	Students learn how to use adjectives	Adjectives	Theoretical lectu	Daily, monthly and midterm exams
٢٢	١	Students learn how to merge the quotation into their writing	Integrating a Quotation an Essay	Theoretical lectu	Daily, monthly and midterm exams
٢٣	١	Students learn how to use prepositions	Prepositions in Eng Grammar with Example	Theoretical lectu	Daily, monthly midterm exams
٢٤	١	Students learn what does a certain phrases means	Idioms and Phrases	Theoretical lectu	Daily, monthly midterm exams
٢٥	١	The students learn how to articulate an essay	Writing Assignments	Theoretical lectu	Daily, monthly midterm exams

٢٦	١	The student learn how to write words in English without mistakes	Pronunciation rules	Theoretical lectu	Daily, monthly midterm exams
٢٧	١	The students know the difference between past, present and future	Tenses	Theoretical lectu	Daily, monthly midterm exams
٢٨	١	The students learn the synonyms of the words and their opposite	Synonyms and Antonym	Theoretical lectu	Daily, monthly midterm exams
٢٩	١	Making the student understand how t rewrite the sentences without losing the meaning	Paraphrasing	Theoretical lectu	Daily, monthly midterm exams
٣٠	١	Learn how to express the student knowledge in English words	Essay Writing Skills	Theoretical lectu	Daily, monthly midterm exams

11. Course Evaluation

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

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	headway intermediate level
Main references (sources)	Medical Terminology 3rd Edition (Charlin Dofka)
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	

85. Course Name: Dental Materials

86. Course Code: 209DM

87. Semester / Year: ٢٠٢٥-٢٠٢٥

88. Description Preparation Date: ٢٠٢٥/٥/٥

89. Available Attendance Forms: Lectures and Laboratory

90. Number of Credit Hours (30) / Number of Units (60)

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

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Email: zainabsaleh@codental.uobaghdad.edu.iq

92. Course Objectives

Course Objectives	• **Learning the physical, chemical a mechanical properties of materials us in dentistry** • **learning necessary skills to manipul these materials.** •

93. Teaching and Learning Strategies

Strategy	• Introducing different dental materials to dental students. • Teaching the students the right way to handle these materials. • Guiding the students through proper manipulation of the materials and supervising the mixing methods of materials a chemical reactions undergone by these material. • Showing and describing the required equipment to prepare den materials. • Teaching the dental students how to use these equipment.

94. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	1	Introduction to dental materials Physical, mechanical, chemical and biological properties of dental materials	Dental materials	Theoretical lecture	Quizzes, semester, mid-year and final year exams
2	1	gypsum product Definition,requirement,types: _gypsum bonded investment _phosphate bonded investment _ethyl silicate bonded (composition , properties and manipulation)	Dental materials	Theoretical lecture	Quizzes, semester, mid-year and final year exams

3	1	Investment materials factors affecting setting time,setting expansion,strength,storage and manipulation of gypsum products,hygroscpic expansion.table with properties	Dental materials	Theoretical lecture	Quizzes, semester, mid-year and final year exams
4	1	Impression materials Definition Ideal properties of impression materials. Classification of impression materials . Non elastic impression materials Impression plaster	Dental materials	Theoretical lecture	Quizzes, semester, mid-year and final year exams
5	1	-Impression compound - Zinc oxide -eugenol	Dental materials	Theoretical lecture	Quizzes, semester, mid-year and final year exams
6	1	Elastic impression material	Dental materials	Theoretical lecture	Quizzes, semester, mid-year and final year exams
7	1	Elastomeric impression material	Dental materials	Theoretical lecture	Quizzes, semester, mid-year and final year exams
8	1	Filling materials Direct filling material Definition Factors causing loss of tooth substance. Requirement of an ideal filling material. Classification of filling material Anterior filling materials ١-silicate cement. Disadvantages. ٢-acrylic resin . Disadvantages	Dental materials	Theoretical lecture	Quizzes, semester, mid-year and final year exams
9	1	composite filling materials. Composition and structure. Types of composite ١-according to methods of curing ٢-classificatio based on size of filler particles / Filler content Properties	Dental materials	Theoretical lecture	Quizzes, semester, mid-year and final year exams
10	1	Posterior filling materials Dental amalgam Classification of amalgam alloys. Manufacture of alloy powder Aging Spherical powder Composition	Dental materials	Theoretical lecture	Quizzes, semester, mid-year and final year exams

		Low copper High copper -١admix -٢Unicomposition Low copper alloy Available as Setting reaction High copper alloy Admix alloy powder Setting reaction Unicom position alloy Setting reaction			
11	1	Properties of set amalgam -١Dimensional changes. Factor favouring contraction. -٢strength. Factors affecting strength. -١effect of trituration -٢effect of Hg content. -٣effect of condensation. -٤effect of porosity. -٥effect of rate of hardening. -٣Ceep. Definition Effect of manipulative variable (for increase strength and low creep -٤Tarnish and corrosion. Definition Factors related to excess tarnish and corrosion Technical consideration Manipulation for amalgam Dispenser Proportion of alloy to Hg Mixing time Condensation Shaping and finishing Mercury toxicity.	Dental materials	Theoretical lecture	Quizzes, semester, mid-year and final year exams
12	1	metallic denture base materials, Metal and metal alloy Definition of alloy, requirement of casting alloy, application of dental alloy, classification of metal, classification of dental alloy, gold foil(advantage, disadvantages), gold alloys(composition and properties)	Dental materials	Theoretical lecture	Quizzes, semester, mid-year and final year exams
13	1	alternative of gold alloys, metal ceramic alloys(requirement, types), removable denture base alloys(requirements, types), co/cr alloy(application, composition, properties, advantages, disadvantages)	Dental materials	Theoretical lecture	Quizzes, semester, mid-year and final year exams

14	1	Titanium and Titanium alloys: Applications, properties, Ni/cr alloys, composition, indications, wrought stainless steel alloy	Dental materials	Theoretical lecture	Quizzes, semester, mid-year and final year exams
15	1	Non metallic denture base Polymers and polymerization Definition of polymer ,co-polymer, cross-link polymer, polymerization ,degree of polymerisation . Factors which control structure and properties of polymer. Polymers used in dentistry Types of polymerization	Dental materials	Theoretical lecture	Quizzes, semester, mid-year and final year exams
16	1	Denture base resin Requirement for clinically acceptable denture base material Old materials used to constrict denture The material of choice to use as denture base material Acrylic resin (polymethylmethacrylate) Why it is used nowadays Classification according to initiation reaction Composition of heat cure resin Methyl methacrylate monomer (properties) Polymer/monomer ratio	Dental materials	Theoretical lecture	Quizzes, semester, mid-year and final year exams
17	1	Properties of heat cure Composition of chemically activated resin Compared to heat activated resins Light activated resin Composition Processing errors ١-porosity ٢-crazing ٣-warpage Recent advance	Dental materials	Theoretical lecture	Quizzes, semester, mid-year and final year exams
18	1	Waxes Definition, Requirements, classification of wax according to origin & melting point, classification of wax according to uses, properties of dental waxes.	Dental materials	Theoretical lecture	Quizzes, semester, mid-year and final year exams
19	1	Temporary filling Definition, indication, Requirements, Types.	Dental materials	Theoretical lecture	Quizzes, semester, mid-year and final year exams
20	1	Cements Classification of dental cements, Definition, Requirements	Dental materials	Theoretical lecture	Quizzes, semester, mid-year and final year exams

21	1	Tissue conditioner Definition, Types, Requirements, indication. Soft liners Types: Requirements, indication, properties,	Dental materials	Theoretical lecture	Quizzes, semester, mid-year and final year exams
22	1	Polishing and Abrasives Definition, factors affecting finishing and polishing, Types, and indication for each. -Denture cleaners: Types, Requirements	Dental materials	Theoretical lecture	Quizzes, semester, mid-year and final year exams

95. Course Evaluation

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

96. Learning and Teaching Resources

Required textbooks (curricular books, if any)	• Phillips applied dental material • Restorative dental material • Dental material their selection and use
Main references (sources)	• Phillips applied dental material • Restorative dental material
Recommended books and references (scientific journals, reports…)	• Introduction to Dental Materials
Electronic References, Websites	College website

97.	Course Name: Dental Materials
98.	Course Code: 209DM
99.	Semester / Year: ٢٠٢٥-٢٠٢٥
100.	Description Preparation Date: ٢٠٢٥/٥/٥
101.	Available Attendance Forms: Laboratory
102.	Number of Credit Hours (30) / Number of Units (

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

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Email: zainabsaleh@codental.uobaghdad.edu.iq

104. Course Objectives

Course Objectives	• **Learning the physical, chemical a mechanical properties of materials us in dentistry** • **learning necessary skills to manipul these materials.** •

105. Teaching and Learning Strategies

Strategy	• Introducing different dental materials to dental students. • Teaching the students the right way to handle these materials. • Guiding the students through proper manipulation of the materials and supervising the mixing methods of materials a chemical reactions undergone by these material. • Showing and describing the required equipment to prepare den materials. • Teaching the dental students how to use these equipment.

106. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
23	1	Introduction to dental materials Physical, mechanical, chemical and biological properties of dental materials	Dental materials	laboratory sessions	Quizzes, semester, mid-year and final year exams
24	1	gypsum product Definition,requirement,types: _gypsum bonded investment _phosphate bonded investment _ethyl silicate bonded (composition , properties and manipulation)	Dental materials	laboratory sessions	Quizzes, semester, mid-year and final year exams
25	1	Investment materials factors affecting setting time,setting expansion,strength,storage and manipulation of gypsum products,hygroscpic	Dental materials	laboratory sessions	Quizzes, semester, mid-year and final year exams

		expansion.table with properties			
26	1	Impression materials Definition Ideal properties of impression materials. Classification of impression materials . Non elastic impression materials Impression plaster	Dental materials	laboratory sessions	Quizzes, semester, mid-year and final year exams
27	1	-Impression compound - Zinc oxide -eugenol	Dental materials	laboratory sessions	Quizzes, semester, mid-year and final year exams
28	1	Elastic impression material	Dental materials	laboratory sessions	Quizzes, semester, mid-year and final year exams
29	1	Elastomeric impression material	Dental materials	laboratory sessions	Quizzes, semester, mid-year and final year exams
30	1	Filling materials Direct filling material Definition Factors causing loss of tooth substance. Requirement of an ideal filling material. Classification of filling material Anterior filling materials ١-silicate cement. Disadvantages. ٢-acrylic resin . Disadvantages	Dental materials	laboratory sessions	Quizzes, semester, mid-year and final year exams
31	1	composite filling materials. Composition and structure. Types of composite ١-according to methods of curing ٢-classificatio based on size of filler particles / Filler content Properties	Dental materials	laboratory sessions	Quizzes, semester, mid-year and final year exams
32	1	Posterior filling materials Dental amalgam Classification of amalgam alloys. Manufacture of alloy powder Aging Spherical powder Composition Low copper High copper -١admix -٢Unicomposition Low copper alloy	Dental materials	laboratory sessions	Quizzes, semester, mid-year and final year exams

		Available as Setting reaction High copper alloy Admix alloy powder Setting reaction Unicom position alloy Setting reaction			
33	1	Properties of set amalgam -١Dimensional changes. Factor favouring contraction. -٢strength. Factors affecting strength. -١effect of trituration -٢effect of Hg content. -٣effect of condensation. -٤effect of porosity. -٥effect of rate of hardening. -٣Ceep. Definition Effect of manipulative variable (for increase strength and low creep -٤Tarnish and corrosion. Definition Factors related to excess tarnish and corrosion Technical consideration Manipulation for amalgam Dispenser Proportion of alloy to Hg Mixing time Condensation Shaping and finishing Mercury toxicity.	Dental materials	laboratory sessions	Quizzes, semester, mid-year and final year exams
34	1	metallic denture base materials, Metal and metal alloy Definition of alloy, requirement of casting alloy, application of dental alloy, classification of metal, classification of dental alloy, gold foil(advantage, disadvantages), gold alloys(composition and properties)	Dental materials	laboratory sessions	Quizzes, semester, mid-year and final year exams
35	1	alternative of gold alloys, metal ceramic alloys(requirement, types), removable denture base alloys(requirements, types), co/cr alloy(application, composition, properties, advantages, disadvantages)	Dental materials	laboratory sessions	Quizzes, semester, mid-year and final year exams
36	1	Titanium and Titanium alloys: Applications, properties, Ni/cr alloys,	Dental materials	laboratory sessions	Quizzes, semester, mid-

		composition, indications, wrought stainless steel alloy			year and final year exams
37	1	Non metallic denture base Polymers and polymerization Definition of polymer ,co-polymer, cross-link polymer, polymerization ,degree of polymerisation . Factors which control structure and properties of polymer. Polymers used in dentistry Types of polymerization	Dental materials	laboratory sessions	Quizzes, semester, mid-year and final year exams
38	1	Denture base resin Requirement for clinically acceptable denture base material Old materials used to constrict denture The material of choice to use as denture base material Acrylic resin (polymethylmethacrylate) Why it is used nowadays Classification according to initiation reaction Composition of heat cure resin Methyl methacrylate monomer (properties) Polymer/monomer ratio	Dental materials	laboratory sessions	Quizzes, semester, mid-year and final year exams
39	1	Properties of heat cure Composition of chemically activated resin Compared to heat activated resins Light activated resin Composition Processing errors ١-porosity ٢-crazing ٣-warpage Recent advance	Dental materials	laboratory sessions	Quizzes, semester, mid-year and final year exams
40	1	Waxes Definition, Requirements, classification of wax according to origin & melting point, classification of wax according to uses, properties of dental waxes.	Dental materials	laboratory sessions	Quizzes, semester, mid-year and final year exams
41	1	Temporary filling Definition, indication, Requirements, Types.	Dental materials	laboratory sessions	Quizzes, semester, mid-year and final year exams
42	1	Cements Classification of dental cements, Definition, Requirements	Dental materials	laboratory sessions	Quizzes, semester, mid-year and final year exams
43	1	Tissue conditioner Definition, Types, Requirements, indication.	Dental materials	laboratory sessions	Quizzes, semester, mid-

		Soft liners Types: Requirements, indication, properties,			year and final year exams
44	1	Polishing and Abrasives Definition, factors affecting finishing and polishing, Types, and indication for each. -Denture cleaners: Types, Requirements	Dental materials	laboratory sessions	Quizzes, semester, mid-year and final year exams

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

108. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	• Phillips applied dental material • Restorative dental material • Dental material their selection and use
Main references (sources)	• Phillips applied dental material • Restorative dental material
Recommended books and references (scientific journals, reports…)	• Introduction to Dental Materials
Electronic References, Websites	College website

109. Course Name: prosthodontics
110. Course Code: PR210
111. Semester / Year: 2025-2025
112. Description Preparation Date: 6/5/2025
113. Available Attendance Forms: Attendance in the classroom for the theoretical lectures
114. Number of Credit Hours (Total) / Number of Units (Total): 30 hours/ 120 credit units

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

Prof. Dr. Abdalbasit Ahmad Fatihalla Email: abdalbasit@codental.uobaghdad.edu.iq
Asst. Prof. Dr. Firas Abdulameer Farhan Email: firas.farhan@codental.uobaghdad.edu.iq
Asst. Prof. Wasmaa Sadik Mahmood Email: Wasmaa_sm@codental.uobaghdad.edu.iq

116. Course Objectives

Course Objectives	• **Learning various and miscellaneous topics in prosthodontics through theoretical lectures.** • **Teaching students the Laboratories steps in treating prosthodontic patients.** • **Providing the student with skills to deal with patients in clinical settings.**

117. Teaching and Learning Strategies

Strategy	• Displaying the theoretical material and explaining it in detail on the smart screen. • Use the brainstorming method. • motivating students to use thinking and problem-solving skills. • Creating a spirit of competition among students through direct and indirect questions related to the scientific subject

118. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
٢ + ١	٢		**Introduction Complete denture**	Theoretical lecture	Daily, monthly, mid-year, and final exams
٤ + ٣	٢		**Anatomical landmarks Maxillary and Mandibular arch anatomical landmarks**	Theoretical lecture	Daily, monthly, mid-year, and final exams
٦ + ٥	٢		**Complete denture impression**	Theoretical lecture	Daily, monthly, mid-year, and final exams
٨ + ٧	٢		**Temporomandibular joint (TMJ)**	Theoretical lecture	Daily, monthly, mid-year, and final exams
١٠ + ٩	٢		**Method of recording rest vertical dimension**	Theoretical lecture	Daily, monthly, mid-year, and final exams
١٢ + ١١	٢		**Dental Articulators**	Theoretical lecture	Daily, monthly, mid-year, and final exams
١٣	١		**Mounting**	Theoretical lecture	Daily, monthly, mid-year, and final exams
١٤	١		**Selection of anterior teeth**	Theoretical lecture	Daily, monthly, mid-year, and final exams

١٦ + ١٥	٢		**Selection of Posterior Teeth**	Theoretical lecture	Daily, monthly, mid-year, and final exams
١٨ + ١٧	٢		**Arrangement of Artificial Teeth.**	Theoretical lecture	Daily, monthly, mid-year, and final exams
١٩	١		**Arrangement of Posterior Teeth**	Theoretical lecture	Daily, monthly, mid-year, and final exams
٢١ + ٢٠ ٢٢ +	٣		**Waxing and Carving Complete Denture Occlusion**	Theoretical lecture	Daily, monthly, mid-year, and final exams
٢٣24 +	١		**Processing of The Denture (Flasking)**	Theoretical lecture	Daily, monthly, mid-year, and final exams
+ 25 26	٢		**Occlusal Correction Finishing And Polishing Of Complete Denture**	Theoretical lecture	Daily, monthly, mid-year, and final exams
٢7	١		**Repair of Complete Denture**	Theoretical lecture	Daily, monthly, mid-year, and final exams
٢٨	1		**Repair of Complete Denture**	Theoretical lecture	Daily, monthly, mid-year, and final exams
٢٩	١		**Relining And Rebasing**	Theoretical lecture	Daily, monthly, mid-year, and final exams
٣٠	١		**Relining And Rebasing**	Theoretical lecture	Daily, monthly, mid-year, and final exams

119. Course Evaluation

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

15% mid-year exam
25% year evaluation (daily and monthly exams, and practical requirements)
20% final practical exam
40% final theoretical exam

120. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Textbook of complete denture 6th edition updated 2009 Dental laboratory technology for removable prosthodontics
Main references (sources)	Textbooks + internet sources
Recommended books and references (scientific journals, reports…)	Dental Clinics of north America Articles • S. Yamashita, M. Shimizu, and H. Katada, "A ne proposed method to predict optimum occlusal vertical dimensi Journal of Prosthodontics, vol. 24, no. 4, pp. 287–290, 2015.
Electronic References, Websites	Classification System for Complete Edentul (https://onlinelibrary.wiley.com/doi/10.1111/j.1532-849X.1999.tb00005.x)

121. Course Name: Biochemistry
122. Course Code: 212BC
123. Semester / Year:2025-2025
124. Description Preparation Date: 2/5/2025
125. Available Attendance Forms: Attendance in the classroom of the theoretical subject
126. Number of Credit Hours (Total) / Number of Units (Total): 60 hours/ ٤ units of study
127. Course administrator's name (mention all, if more than one name)
Name: Prof. Dr. eaman Ali Salman Email: dr.eaman.alrubaiee@codental.uobaghdad.edu.iq Name: Assis. Prof. Dr. shaimaa sabte mutlak shaimaa_mutlak@codental.uobaghdad.edu.iq Name: Lecturer. Dr. zainab ali salman zainab.ali@codental.uobaghdad.edu.iq
128. Course Objectives

Course Objecti	• Prepare the student practically in terms of applying the acquired knowledge • Thinking about solving problems. • Developing the student's ability to deal with multiple means of learning and to understand the vital activities taking place in the body. • To teach students the practical and theoretical applications of the most important compounds and metabolic reactions that occur in the human body • Identify medical terminology for biochemistry • Explaining the methods used in diagnosing some diseases and chemical markers. • Enabling the student to possess sufficient medical knowledge in biochemistry.

129. Teaching and Learning Strategies

Strategy	• Study biochemistry in detail, which will provide the key to understanding metabolic activities and the most important vital compounds in the human body, and enhance this study using practical application to give students more comprehensive information about biochemistry. • Lectures using the [Power Point] program. • Show educational videos. • Guiding students to the most important books and some websites to benefit from them.

130. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
١	٢	**Enzymes: Definition ,Terminology , and Classification**	Biochemistry	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
٢	٢	**Mechanism of enzyme action**	Biochemistry	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
٣	٢	**Clinical significance of enzyme assays**	Biochemistry	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
٤	٢	**Vitamins, definition, classification**	Biochemistry	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
٥	٢	**Vitamins Disorders**	Biochemistry	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
٦	٢	**Chemistry of carbohydrates**	Biochemistry	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
٧	٢	**Metabolism of Carbohydrates: part 1**	Biochemistry	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
٨	٢	**Metabolism of Carbohydrates :part 2**	Biochemistry	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
٩	٢	**Carbohydrates metabolism regulation**	Biochemistry	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
١٠	٢	**Chemistry of proteins and amino acids**	Biochemistry	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
١١	٢	**Metabolism of proteins and amino acid**	Biochemistry	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
١٢	٢	**Metabolism of Protein and amino aci regulation**	Biochemistry	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
١٣	٢	**Metabolism of Protein and amino aci inherited disorder**	Biochemistry	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
١٤	٢	**Metabolism of starvation**	Biochemistry	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
١٥	٢	**Exam**	Biochemistry	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
١٦		**Mid Exam**			Biochemistry
١٧	٢	Metabolism of Lipid: oxidation of Fatty Acids	Biochemistry	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
١٨	٢	Biosynthesis of Fatty Acids	Biochemistry	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams

١٩	٢	Integration of metabolism of carbohydrates, lipid ,and Proteins	Biochemistry	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
٢٠	٢	Metabolism of minerals and trace elements	Biochemistry	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
٢١	٢	Trace elements disorder	Biochemistry	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
٢٢	٢	Detoxification	Biochemistry	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
٢٣	٢	Chemistry of Nucleotides	Biochemistry	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
٢٤	٢	Metabolism of purines and pyrimidines	Biochemistry	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
٢٥	٢	Calcium , phosphate and magnesium	Biochemistry	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
٢٦	٢	Biochemistry of teeth	Biochemistry	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
٢٧	٢	Biochemical features of saliva	Biochemistry	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
٢٨	٢	Chemistry of hormones	Biochemistry	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
٢٩	٢	Hormones Disorders	Biochemistry	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
٣٠	٢	Exam			Daily, monthly, semi-annual and final exams
		Final exam			

131. Course Evaluation

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

15% mid exam

25% Annual pursuit (includes daily and monthly exams and practical requirements)

20% Final practical exam

40% Final Theoretical Exam

132. Learning and Teaching Resources

Required textbooks (curricular books, if any)	**Textbook of Biochemistry for dental/Nursing/Pharmacy Students:3rd Ed. MN Chatterjea.2009.**

Main references (sources)	**References:** **1- Lippincott Illustrated Reviews Biochemistry th Ed 2017.** **2- Marton crook: Clinical Biochemistry and metabolic medicine; 2012.**
Recommended books and references (scientific journals…)	**1. Textbook of medical biochemistry 8th Ed JAYPEE.**
Electronic References, Websites	

1. Course Name: Biochemistry
2. Course Code: Biochemistry/ BC 212
3. Semester / Year:2025-2025
4. Description Preparation Date: 2/5/2025
5. Available Attendance Forms: Attendance in the laboratory for the practical material
6. Number of Credit Hours (Total) / Number of Units (Total): 60 hours/ 2 units of study
7. Course administrator's name (mention all, if more than one name)
Name: Prof. Dr. Eaman Ali Salman Email: dr,eaman.alrubaiee@codental.uobaghdad.edu.iq Name:Assistant Prof. Dr. shaimaa Sabtey Email: shaimaa-mutlak.ali@codental.uobaghdad.edu.iq Name: Lecturer Dr. Zainab Ali Email: zainab.ali@codental.uobaghdad.edu.iq
8. Course Objectives

Course Objectiv	• Practical application settings of knowledge application • Thinking about solving problems.

	• Developing the student's ability to deal with computer means of learning • Learn how to measure chemical analyzes and read their results • Definition of medical commercial terms • The student who possesses medical knowledge uses knowledge in biochemistry • Creating knowledge and understanding of metabolic functions and how to translate this knowledge to improve health and disease

9. Teaching and Learning Strategies

Strategy	● Conducting practical experiments to increase student understanding and awareness ● Lectures using the [Power Point] program ● Presentation of educational videos. ● Guiding students to some websites to benefit from them ● Follow up on students' way of thinking, expression, and speed of response through discussions

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Required Learning Outcomes	Evaluation method
1	2	Lab safety	Biochemistry	Theoretical lecture using PowerPoint, with practical experience and presentation of educational videos	Daily and final exams. Practical activity in the laboratory includes writing and correcting experimental reports
2	2	Sample collection-1	Biochemistry	Theoretical lecture using PowerPoint, with practical experience and presentation of educational videos	Daily and final exams. Practical activity in the laboratory includes writing and correcting experimental reports
3	2	Sample collection -2	Biochemistry	Theoretical lecture using PowerPoint, with practical experience and presentation of educational videos	Daily and final exams. Practical activity in the laboratory includes writing and correcting experimental reports
4	2	Spectrophotometer	Biochemistry	Theoretical lecture using PowerPoint, with practical experience and presentation of educational videos	Daily and final exams. Practical activity in the laboratory includes writing and correcting experimental reports
5	2	Standard curve	Biochemistry	Theoretical lecture using PowerPoint, with practical experience and presentation of educational videos	Daily and final exams. Practical activity in the laboratory includes writing and correcting experimental reports
6	2	Blood glucose+ HbA1c	Biochemistry	Theoretical lecture using PowerPoint, with practical experience and	Daily and final exams. Practical activity in the laboratory includes writing and correcting experimental reports

				presentation of educational videos	
7	2	Total Protein	Biochemistry	Theoretical lecture using PowerPoint, with practical experience and presentation of educational videos	Daily and final exams. Practical activity in the laboratory includes writing and correcting experimental reports
8	2	Albumin+ Globulin	Biochemistry	Theoretical lecture using PowerPoint, with practical experience and presentation of educational videos	Daily and final exams. Practical activity in the laboratory includes writing and correcting experimental reports
9	2	Troponin	Biochemistry	Theoretical lecture using PowerPoint, with practical experience and presentation of educational videos	Daily and final exams. Practical activity in the laboratory includes writing and correcting experimental reports
10	2	Liver function test (Bilirubin)	Biochemistry	Theoretical lecture using PowerPoint, with practical experience and presentation of educational videos	Daily and final exams. Practical activity in the laboratory includes writing and correcting experimental reports
11	2	Alkaline Phosphatase	Biochemistry	Theoretical lecture using PowerPoint, with practical experience and presentation of educational videos	Daily and final exams. Practical activity in the laboratory includes writing and correcting experimental reports
12	2	Transaminases (ALT&AST)	Biochemistry	Theoretical lecture using PowerPoint, with practical experience and presentation of educational videos	Daily and final exams. Practical activity in the laboratory includes writing and correcting experimental reports
13	2	Lipid in blood (cholesterol & lipoprotein)	Biochemistry	Theoretical lecture using PowerPoint, with practical experience and presentation of educational videos	Daily and final exams. Practical activity in the laboratory includes writing and correcting experimental reports
14	2	Triglyceride	Biochemistry	Theoretical lecture using PowerPoint, with practical experience and presentation of educational videos	Daily and final exams. Practical activity in the laboratory includes writing and correcting experimental reports
15	2	Kidney function Test (urea)	Biochemistry	Theoretical lecture using PowerPoint, with practical experience and presentation of educational videos	Daily and final exams. Practical activity in the laboratory includes writing and correcting experimental reports
16		**Mid Exam**			

17	2	Serum creatinine &creatinine clearness	Biochemistry	Theoretical lecture using PowerPoint, with practical experience and presentation of educational videos	Daily and final exams. Practical activity in the laboratory includes writing and correcting experimental reports
18	2	General Urine Analysis	Biochemistry	Theoretical lecture using PowerPoint, with practical experience and presentation of educational videos	Daily and final exams. Practical activity in the laboratory includes writing and correcting experimental reports
19	2	Uric acid	Biochemistry	Theoretical lecture using PowerPoint, with practical experience and presentation of educational videos	Daily and final exams. Practical activity in the laboratory includes writing and correcting experimental reports
20	2	Amylase in serum+ saliva	Biochemistry	Theoretical lecture using PowerPoint, with practical experience and presentation of educational videos	Daily and final exams. Practical activity in the laboratory includes writing and correcting experimental reports
21	2	creatine phosphokinase	Biochemistry	Theoretical lecture using PowerPoint, with practical experience and presentation of educational videos	Daily and final exams. Practical activity in the laboratory includes writing and correcting experimental reports
22	2	lactate Dehydrogenase	Biochemistry	Theoretical lecture using PowerPoint, with practical experience and presentation of educational videos	Daily and final exams. Practical activity in the laboratory includes writing and correcting experimental reports
23	2	serum calcium	Biochemistry	Theoretical lecture using PowerPoint, with practical experience and presentation of educational videos	Daily and final exams. Practical activity in the laboratory includes writing and correcting experimental reports
24	2	serum phosphorus	Biochemistry	Theoretical lecture using PowerPoint, with practical experience and presentation of educational videos	Daily and final exams. Practical activity in the laboratory includes writing and correcting experimental reports
25	2	serum Na	Biochemistry	Theoretical lecture using PowerPoint, with practical experience and presentation of educational videos	Daily and final exams. Practical activity in the laboratory includes writing and correcting experimental reports

26	2	serum K	Biochemistry	Theoretical lecture using PowerPoint, with practical experience and presentation of educational videos	Daily and final exams. Practical activity in the laboratory includes writing and correcting experimental reports
27	2	serum Iron	Biochemistry	Theoretical lecture using PowerPoint, with practical experience and presentation of educational videos	Daily and final exams. Practical activity in the laboratory includes writing and correcting experimental reports
28	2	Vitamin D	Biochemistry	Theoretical lecture using PowerPoint, with practical experience and presentation of educational videos	Daily and final exams. Practical activity in the laboratory includes writing and correcting experimental reports
29	2	Vitamin C	Biochemistry	Theoretical lecture using PowerPoint	Daily and final exams. Practical activity in the laboratory includes writing and correcting experimental reports
30	2	Acid phosphatase.	Biochemistry	Theoretical lecture using PowerPoint	Daily and final exams. Practical activity in the laboratory includes writing and correcting experimental reports
		Final exam			

11. Course Evaluation

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

7% Annual pursuit (includes daily and monthly exams and practical requirements)
20% Final practical exam

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	1- Crook Martin.Clinical Biochemistry and Metabolic Medicine 2- Burits,A. Carl.Bruns, E. David .Tietz Fundamentals of Clinical chemistry and Molecular Diagnostics.

Main references (sources)	
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	

133. Course Name: General Histology

134. Course Code: Histology/ 213 GH

135. Semester / Year:2025-2025

136. Description Preparation Date: 2/5/2025

137. Available Attendance Forms: Attendance in the classroom of the theoretical subject

138. Number of Credit Hours (Total) / Number of Units (Total): 60 hours/ ٤ units of study

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

Name: Prof. Ahmed Anwar Albir Email: ahmed.a.albeer@codental.uobaghdad.edu.iq
Name: Assistant ProfessorDr. Rasha Abbas Azeez rasha.abbas@codental.uobaghdad.edu.iq
Name: Lecturer. Dr. Salaha Saheb Saleha.saheb@codental.uobaghdad.edu.iq

140. Course Objectives

Course Objecti	• Prepare the student practically in terms of applying the acquired knowledge • Thinking about solving problems. • Developing the student's ability to deal with multiple means of learning • To teach students the practical and theoretical applications of the various general body tissues and all body organs • Identify medical histological terminology • Enabling the student to possess sufficient medical knowledge in general histology

141. Teaching and Learning Strategies

Strategy	• Study basic tissues in detail, which will provide the key to understanding the histological structure of each organ of the human body, and enhance this study by usin an optical microscope to give students complete information about the histological characteristics of those organs in the human body. • Lectures using the [Power Point] program. • Show educational videos. • Guiding students to some websites to benefit from them.

142. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
١	٢	**Cells,** Cell division, Extracellular materials, Intercellular junction, Basic tissue properties, Basic tissue classification.	General Histology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
٢	٢	**Epithelium properties,** Epithelium histology, Epithelium classification, Epithelium regeneration, turnover, and repair, Basement membrane	eneral Histology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
٣	٢	**Connective tissue histology,** Connective tissue classification, Connective tissue proper, regeneration, turnover, and repair, Clinical considerations with skin aging, Specialized connective tissue, Muscle properties.	eneral Histology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
٤	٢	**Conducting portion**: Nasal cavity, Nasopharynx, Larynx, Trachea, Bronchi, Bronchioles, and Terminal bronchioles.	eneral Histology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
٥	٢	**Respiratory portion:** Respiratory bronchioles, Alveolar ducts,Alveoli, Lung vasculature and neves , Pleura.	eneral Histology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
٦	٢	**Urinary System:** kidney nephrons, collecting tubules and ducts	eneral Histology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
٧	٢	**Urinary System:** ureter, urinary bladder, and male and female urethra	eneral Histology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
٨	٢	**Integumentary System:** skin: epidermis, dermis, Thick skin, Thin skin Layers of Skin, Melanocytes Langerhans Cells, Merkel's Cells.	eneral Histology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
٩	٢	**Integumentary System**: skin glands, Sebaceous Glands, Sweat glands, Subcutaneous tissue (hypodermis hair, and nail	eneral Histology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
١٠	٢	**Hemopoiesis:** bone marrow Prenatal hemopoiesis, Postnatal hemopoiesis Bone marrow, Red bone marrow, Yellow bone marrow.	eneral Histology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
١١	٢	**Hemopoiesis:** blood cells Erythrocytes or Red blood corpuscles (RBC), (Leukocytes), platelets.	eneral Histology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams

١٢	٢	**Circulatory System:** Arterial system Elastic arteries, Muscular arteries Arterioles, Lymphatic vascular system	eneral Histology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
١٣	٢	**Circulatory System:** Muscular veins Venules, Capillaries, the heart.	eneral Histology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
١٤	٢	**Lymphoid System:** Functions of the Lymphatic System consists of Cells, Tissues, Organs.	eneral Histology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
١٥	٢	**Lymphoid System:** The peripheral (secondary) lymphoid tissues Mucosa Associated Lymphoid Tissue (MALT).	eneral Histology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
١٦		**Mid Exam**			
١٧	٢	**Nervous System**: Nerve tissue, Neurons and glial cell (structure and types).Nerve fibers structure Synapse impulse reflex arch. CNS and PNS, Brain, Spinal cord, Cerebellum.	eneral Histology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
١٨	٢	**Endocrine System:** Histological structure of Pituitary (Hypophysis) , Blood supply , and cells of the neurohypophysis .	eneral Histology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
١٩	٢	**Endocrine System:** Histological structure of Parathyroid, Thyroid glands.	eneral Histology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
٢٠	٢	**Endocrine System**: Histological structure of: Islets of Langerhans, Adrenal gland and Pineal gland.	eneral Histology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
٢١	٢	**Digestive System:** Tongue, Salivary glands , Lips or labia, Taste buds, Types of the cells in the taste buds.	eneral Histology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
٢٢	٢	**Digestive System:** General structure of the digestive tract, Oral cavity, Esophagus, Stomach Mucosa, Other Layers	eneral Histology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
٢٣	٢	**Digestive System:** Large intestine, Cecum, Appendix, and Rectum.	eneral Histology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
٢٤	٢	**Digestive System:** Histological structure of: liver ,Pancreas , and Gall bladder.	eneral Histology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
٢٥	٢	**Male Reproductive System** Testes, Intratesticular ducts,Excretory genital ducts.	eneral Histology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
٢٦	٢	**Male Reproductive System** Accessory glands, Penis.	eneral Histology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
٢٧	٢	**Female Reproductive System** Histological structure of: Ovary, Corpus luteum, Uterus.	eneral Histology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams

٢٨	٢	**Female Reproductive System** Histological structure of placenta, vagina, mammary gland.	eneral Histology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
٢٩	٢	**Special Sense Organs: eye**	eneral Histology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
٣٠	٢	**Special Sense Organs: ear**	eneral Histology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
		Final exam			

143. Course Evaluation

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

15% mid exam

25% Annual pursuit (includes daily and monthly exams and practical requirements)

20% Final practical exam

40% Final Theoretical Exam

144. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Junqueira's Basic Histology: TEXT and ATLAS
Main references (sources)	Junqueira's Basic Histolo TEXT and ATLAS
Recommended books and references (scientific journals…)	
Electronic References, Websites	

145.	Course Name: General Histology
146.	Course Code: Histology/ 213 GH
147.	Semester / Year:2025-2025
148.	Description Preparation Date: 2/5/2025
149.	Available Attendance Forms: Attendance in the lab
150.	Number of Credit Hours (Total) / Number of Units (Total): 60 hours/ ٢units of study
151.	Course administrator's name (mention all, if more than one name)
Name: Prof. Ahmed Anwar Albir Email: ahmed.a.albeer@codental.uobaghdad.edu.iq Name: Asst. Prof. Dr. Rasha Abbas Azeez Email: rasha.abbas@codental.uobaghdad.edu.iq Name: Lecturer. Dr. Salaha Saheb Email: Saleha.saheb@codental.uobaghdad.edu.iq	
152.	Course Objectives
Course Objecti	• Prepare the student practically in terms of applying the acquired knowledge • Thinking about solving problems. • Developing the student's ability to deal with multiple means of learning • To teach students the practical and theoretical applications of the various general body tissues and all body organs • Identify medical histological terminology • Enabling the student to possess sufficient medical knowledge in general histology
153.	Teaching and Learning Strategies
Strategy	• Study basic tissues in detail, which will provide the key to understanding the histological structure of each organ of the human body, and enhance this study by usin an optical microscope to give students complete information about the histological characteristics of those organs in the human body. • Lectures using the [Power Point] program. • Show educational videos. • Guiding students to some websites to benefit from them.
154.	Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
١	٢	Slides of Cells, Basic Tissue	General Histology	A theoretical-practical lecture using the Power Point program and examining slides with a microscope	Daily, monthly and final exams. Practical activity in the laboratory includes drawing tissue sections of organs from a microscope and correcting students' notebooks.
٢	٢	Slides of Epithelial Tissue	General Histology	A theoretical-practical lecture using the Power Point program and examining slides with a microscope	Daily, monthly and final exams. Practical activity in the laboratory includes drawing tissue sections of organs from a microscope and correcting students' notebooks.
٣	٢	Slides of Connective Tissue	General Histology	A theoretical-practical lecture using the Power Point program and examining slides with a microscope	Daily, monthly and final exams. Practical activity in the laboratory includes drawing tissue sections of organs from a microscope and correcting students' notebooks.
٤	٢	Slides of Respiratory System: conducting portion	General Histology	A theoretical-practical lecture using the Power Point program and examining slides with a microscope	Daily, monthly and final exams. Practical activity in the laboratory includes drawing tissue sections of organs from a microscope and correcting students' notebooks.
٥	٢	Slides of Respiratory System: respiratory portion	General Histology	A theoretical-practical lecture using the Power Point program and examining slides with a microscope	Daily, monthly and final exams. Practical activity in the laboratory includes drawing tissue sections of organs from a microscope and correcting students' notebooks.
٦	٢	Slides of Urinary System: kidney nephrons, collecting tubules and ducts	General Histology	A theoretical-practical lecture using the Power Point program and examining slides with a microscope	Daily, monthly and final exams. Practical activity in the laboratory includes drawing tissue sections of organs from a microscope and correcting students' notebooks.
٧	٢	Slides of Urinary System: ureter, urinary bladder, and male and female urethra	General Histology	A theoretical-practical lecture using the Power Point program and examining slides with a microscope	Daily, monthly and final exams. Practical activity in the laboratory includes drawing tissue sections of organs from a microscope and correcting students' notebooks.
٨	٢	Slides of Integumentary System: skin: epidermis, dermis	General Histology	A theoretical-practical lecture using the Power Point program and examining slides with a microscope	Daily, monthly and final exams. Practical activity in the laboratory includes drawing tissue sections of organs from a microscope and correcting students' notebooks.
٩	٢	Slides of Integumentary System: skin glands, hair, and nail	General Histology	A theoretical-practical lecture using the Power Point program and examining slides with a microscope	Daily, monthly and final exams. Practical activity in the laboratory includes drawing tissue sections of organs from a microscope and correcting students' notebooks.
١٠	٢	Hemopoiesis: Slides of bone marrow	General Histology	A theoretical-practical lecture using the Power Point program and examining slides with a microscope	Daily, monthly and final exams. Practical activity in the laboratory includes drawing tissue sections of organs from a microscope and correcting students' notebooks.
١١	٢	Hemopoiesis: Slides of blood cells	General Histology	A theoretical-practical lecture using the Power Point program and examining slides with a microscope	Daily, monthly and final exams. Practical activity in the laboratory includes drawing tissue sections of organs from a microscope and correcting students' notebooks.

١٢	٢	Slides of Circulatory System	General Histology	A theoretical-practical lecture using the Power Point program and examining slides with a microscope	Daily, monthly and final exams. Practical activity in the laboratory includes drawing tissue sections of organs from a microscope and correcting students' notebooks.
١٣	٢	Slides of Circulatory System	General Histology	A theoretical-practical lecture using the Power Point program and examining slides with a microscope	Daily, monthly and final exams. Practical activity in the laboratory includes drawing tissue sections of organs from a microscope and correcting students' notebooks.
١٤	٢	Slides of Lymphoid System	General Histology	A theoretical-practical lecture using the Power Point program and examining slides with a microscope	Daily, monthly and final exams. Practical activity in the laboratory includes drawing tissue sections of organs from a microscope and correcting students' notebooks.
١٥	٢	Slides of Lymphoid System	General Histology	A theoretical-practical lecture using the Power Point program and examining slides with a microscope	Daily, monthly and final exams. Practical activity in the laboratory includes drawing tissue sections of organs from a microscope and correcting students' notebooks.
١٦		**Mid Exam**			
١٧	٢	Slides of Nervous System	General Histology	A theoretical-practical lecture using the Power Point program and examining slides with a microscope	Daily, monthly and final exams. Practical activity in the laboratory includes drawing tissue sections of organs from a microscope and correcting students' notebooks.
١٨	٢	Slides of Endocrine System	General Histology	A theoretical-practical lecture using the Power Point program and examining slides with a microscope	Daily, monthly and final exams. Practical activity in the laboratory includes drawing tissue sections of organs from a microscope and correcting students' notebooks.
١٩	٢	Slides of Endocrine System	General Histology	A theoretical-practical lecture using the Power Point program and examining slides with a microscope	Daily, monthly and final exams. Practical activity in the laboratory includes drawing tissue sections of organs from a microscope and correcting students' notebooks.
٢٠	٢	Slides of Endocrine System	General Histology	A theoretical-practical lecture using the Power Point program and examining slides with a microscope	Daily, monthly and final exams. Practical activity in the laboratory includes drawing tissue sections of organs from a microscope and correcting students' notebooks.
٢١	٢	Slides of Digestive System	General Histology	A theoretical-practical lecture using the Power Point program and examining slides with a microscope	Daily, monthly and final exams. Practical activity in the laboratory includes drawing tissue sections of organs from a microscope and correcting students' notebooks.
٢٢	٢	Slides of Digestive System	General Histology	A theoretical-practical lecture using the Power Point program and examining slides with a microscope	Daily, monthly and final exams. Practical activity in the laboratory includes drawing tissue sections of organs from a microscope and correcting students' notebooks.
٢٣	٢	Slides of Digestive System	General Histology	A theoretical-practical lecture using the Power Point program and examining slides with a microscope	Daily, monthly and final exams. Practical activity in the laboratory includes drawing tissue sections of organs from a microscope and correcting students' notebooks.

٢٤	٢	Slides of Digestive System	General Histology	A theoretical-practical lecture using the Power Point program and examining slides with a microscope	Daily, monthly and final exams. Practical activity in the laboratory includes drawing tissue sections of organs from a microscope and correcting students' notebooks.
٢٥	٢	Slides of Male Reproductive System	General Histology	A theoretical-practical lecture using the Power Point program and examining slides with a microscope	Daily, monthly and final exams. Practical activity in the laboratory includes drawing tissue sections of organs from a microscope and correcting students' notebooks.
٢٦	٢	Slides of Male Reproductive System	General Histology	A theoretical-practical lecture using the Power Point program and examining slides with a microscope	Daily, monthly and final exams. Practical activity in the laboratory includes drawing tissue sections of organs from a microscope and correcting students' notebooks.
٢٧	٢	Slides of Female Reproductive System	General Histology	A theoretical-practical lecture using the Power Point program and examining slides with a microscope	Daily, monthly and final exams. Practical activity in the laboratory includes drawing tissue sections of organs from a microscope and correcting students' notebooks.
٢٨	٢	Slides of Female Reproductive System	General Histology	A theoretical-practical lecture using the Power Point program and examining slides with a microscope	Daily, monthly and final exams. Practical activity in the laboratory includes drawing tissue sections of organs from a microscope and correcting students' notebooks.
٢٩	٢	Slides of Special Sense Organs: eye	General Histology	A theoretical-practical lecture using the Power Point program and examining slides with a microscope	Daily, monthly and final exams. Practical activity in the laboratory includes drawing tissue sections of organs from a microscope and correcting students' notebooks.
٣٠	٢	Slides of Special Sense Organs: ear	General Histology	A theoretical-practical lecture using the Power Point program and examining slides with a microscope	Daily, monthly and final exams. Practical activity in the laboratory includes drawing tissue sections of organs from a microscope and correcting students' notebooks.
		Final exam			

155. Course Evaluation

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

15% mid exam

25% Annual pursuit (includes daily and monthly exams and practical requirements)

20% Final practical exam

40% Final Theoretical Exam

156. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Junqueira's Basic Histology: TEXT and ATLAS
Main references (sources)	Junqueira's Basic Histology: TEXT and ATLAS
Recommended books and references (scientific journals…)	

Electronic References, Websites	

157. Course Name: General Physiology
158. Course Code: Physiology/ 214 PH
159. Semester / Year:2025-2025
160. Description Preparation Date: 2/5/2025
161. Available Attendance Forms: Attendance in the classroom of the theoretical subject
162. Number of Credit Hours (Total) / Number of Units (Total): 60 hours/ ٤ units of study
163. Course administrator's name (mention all, if more than one name)
Name: Prof. Dr. Khalid Hamdan Email: Kh201295@codental.uobaghdad.edu.iq Name: Prof. Dr. Shatha Qassim Email: shathaqasim@codental.uobaghdad.edu.iq Name: Asst Prof. Dr. Sahar Hashim Email: Sahar.hashim@codental.uobaghdad.edu.iq
164. Course Objectives

Course Objectives	• Identify the organs of the human body and the function of each organ • Learn about physiological medical terminology • Enable the student to possess sufficient medical knowledge in medical physiology • Find knowledge and understanding of complex physiological functions and how to translate this knowledge to improve health and prevent disease

165. Teaching and Learning Strategies	
Strategy	• Lectures using the [Power Point] program • Presentation of educational videos. • Guiding students to some websites to benefit from them • Follow up on students' way of thinking, expression, and speed of response thro discussions

166. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
١	٢	**Introduction**; (Function organization of the human body, Cell physiology, Cell membrane, Cell components, Cell Junction)	Physiology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
٢	٢	**Body fluid** (Type of body fluids, Intracellular and extracellular, Constituents of extracellular and intracellular fluids, Specialized Body Fluids) **Edema** (Types of Edema, Causes of edema, Measurement of body fluid volume, Dehydration, Types, Classification, Causes, Signs, and Symptoms of Dehydration)	Physiology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
٣	٢	**Homeostasis and Transport across cell membrane** (Diffusion (passive), Carrier-mediated transport (passive or active), Vesicular transport).	Physiology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
٤	٢	**ORAL CAVITY and Salivary Glands** (Functions of Mouth, Salivary Glands (Structure, Development, Major and Minor glands, Clinical correlations, Regulation of Salivary Secretion, Factors Influencing Salivary Flow and Composition) (**Mastication**, Deglutition, Bolus Formation for Swallowing, Digestion), (**speech**: Definition, Mechanism, Nervous Control, Applied Physiology)	Physiology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
٥	٢	**Salivary functions and Regulation of Salivary Secretion** (Composition of Saliva, Properties of Saliva, Functions of Saliva, Effect of Drugs and Chemicals on Salivary Secretion, Maintenance of Tooth Integrity, The Diagnostic Applications of Saliva and forensic uses of saliva, Disadvantages/ Limitations of Saliva)	Physiology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams

٦	٢	**Physiology of Blood** Composition of blood, Hematocrit, Plasma, Functions of blood**), Red blood cells** (Genesis of R.B.C, polycythemia, Anemia, Destruction of R.B.C.s)	Physiology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
٧	٢	**White Blood Cells** (Types of W.B.C., Genesis of the leukocytes, Life span of the W.B.C, Phagocytosis, Inflammation, Leukemia, Leukopenia)	Physiology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
٨	٢	**Hemoglobin** (Formation of Hemoglobin, Iron Metabolism, Hb Compounds, Destruction of Hb, The common causes of jaundice)	Physiology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
٩	٢	**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)	Physiology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
١٠	٢	**Hemostasis and blood coagulation** (Vascular Spasm, Formation of a Platelet Plug, Mechanism of the Platelet Plug, Mechanism of Blood Coagulation, Prevention of Clotting in normal vascular System, Prevention of blood coagulation outside the Body, Blood Disease)	Physiology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
١١	٢	**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)	Physiology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
١٢	٢	**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)	Physiology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
١٣	٢	**Cardiovascular system (**Electrocardiogram, Hemorrhage, Circulatory Shock and Heart Failure, Cardiovascular Adjustments during Exercise)	Physiology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
١٤	٢	**Respiratory system** (Types and Stages of Respiration, Non-respiratory functions of respiratory tract, Mechanics of Pulmonary Ventilation, **Respiratory pressures**: Types of Respiratory pressures, Compliance, dead space, Pulmonary Circulation)	Physiology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
١٥	٢	**Respiratory system: Lung volumes and capacities** (Lung volume and Lung capacity, Ventilation, Respiratory	Physiology	Theoretical lecture	Daily, monthly, semi-annual and final exams

		Protective reflexes**,** Pulmonary function tests, Regulation of Respiration **Disturbances of Respiration**, Pathophysiology of Specific Pulmonary Abnormalities, The relationship between oral health and respiratory disease)		using PowerPoint	
١٦		**Half-year Break**			
١٧	٢	**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)	Physiology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
١٨	٢	**Temperature of the Body (**Normal body Temperatures, Physiological Variations, Heat Balance**,** Insulator system**,** regulation of body temperature**,** Mechanisms to decrease or increase body temperature**,** Sympathetic "Chemical" Excitation of heat production)	Physiology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
١٩	٢	**Urinary system (**Parts of Renal system, Functions of kidneys, Components of kidney, Parenchyma of kidney, **Urine formation:** Mechanism of urine formation, Glomerular Filtration, Pressure determining filtration, Tubular Reabsorption & secretion)	Physiology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
٢٠	٢	**Urinary system: Urine concentration** (Mechanism of urine concentration, Formation of dilute urine, Formation of concentrated urine, **Micturition**, Nerve supply to urinary bladder, Renal Function Tests, Relation between renal disease & oral health)	Physiology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
٢١	٢	**Endocrine System** (Introduction, Endocrine glands, Hormones, Classification of hormones, Hormonal action. Hormone receptors, Synthesis and storage of hormones, Mechanism of hormonal function, Measurement of Hormone Concentrations)	Physiology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
٢٢	٢	**Major Endocrine Glands** Oral manifestations of endocrine dysfunction, Control Systems Involving Hypothalamus and Pituitary glands, The pituitary gland, Thyroid gland, Pancreas gland, Adrenal glands	Physiology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
٢٣	٢	**Digestive system** (The Functions of the digestive, Structural layers of the digestive, Stomach, Secretions of the Stomach,	Physiology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams

		Regulation of Stomach Secretion, Mixing of Stomach Contents, Stomach Emptying			
٢٤	٢	**Digestive system** (Small intestine, Secretions of small intestine, Movement in small intestine, Liver, Functions of liver, Pancreatic secretions, Regulation of pancreatic secretion, large intestine, movement in large Intestine, Digestion, Absorption, Transport)	Physiology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
٢٥	٢	**Muscular system: Muscle structure (**Types, Structure, Microscopic Structure, Muscle Physiology, Properties, Contraction and contractile elements, Tone, Electrical and Molecular Changes during Muscular Contraction)	Physiology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
٢٦	٢	**Muscular system: Tone, contraction** (Molecular Changes During Muscular Contraction, Neuromuscular Junction-Neuromuscular Transmission and Blockers, Nutrition and Metabolism (Energy Requirements))	Physiology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
٢٧	٢	**Nervous System: Nerve impulse, synapses (**Nervous System Division, Cranial nerves, Neuron and Neuroglia, Receptors, Nerve impulses, Synapses, and Neurotransmitters)	Physiology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
٢٨	٢	**Nervous System (**Reflex Activity, Somatosensory System and Somatomotor System, Physiology of Pain)	Physiology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
٢٩	٢	**Reproductive system: Aging & reproductive system** (Male Reproductive System Female Reproductive System, Meiosis, Aging and Reproductive system.	Physiology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
٣٠	٢	**Aviation and Deep physiology** (Body Response in high altitudes, physiological Changes in the Sea deep) **Nutrition and metabolism** (daily energy requirement, obesity and fitness)	Physiology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
		Final exam			

167. Course Evaluation

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

15% mid exam

25% Annual pursuit (includes daily and monthly exams and practical requirements) 20% Final practical exam 40% Final Theoretical Exam

168. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	
Main references (sources)	1- Medical physiology (Gyton) 2- Essential physiology for dental stud
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	

169. Course Name: General Physiology
170. Course Code: Physiology/ 214 PH
171. Semester / Year:2025-2025
172. Description Preparation Date: 2/5/2025
173. Available Attendance Forms: Attendance in the laboratory for the practical material
174. Number of Credit Hours (Total) / Number of Units (Total): 60 hours/ ٢ units of study

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

Name: Prof. Dr. Khalid Hamdan Kh201295@codental.uobaghdad.edu.iq
Name: Prof. Dr. Shatha Kassim shathaqasim@codental.uobaghdad.edu.iq
Name: Assistant Prof. Dr. Sahar Hashim Sahar.hashim@codental.uobaghdad.edu.iq

176. Course Objectives

Course Objectives	•Preparing the student practically in terms of applying the knowledge gained • Thinking about solving problems •Developing the student's ability to deal with multiple means of learning •Identify the organs of the human body and the function of each organ •Learn about physiological medical terminology •Enable the student to possess sufficient medical knowledge in medical physiology •Find knowledge and understanding of complex physiological functions and how to translate this knowledge to improve health and prevent disease

177. Teaching and Learning Strategies

Strategy	• Conducting practical experiments to increase student understanding and awareness • Lectures using the [Power Point] program • Presentation of educational videos. • Guiding students to some websites to benefit from them • Follow up on students' way of thinking, expression, and speed of response through discussions

178. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
١	٢	**Microscope**	Physiology	Theoretical lecture using PowerPoint, with practical experience and presentation of educational videos	Daily and final exams, seminar preparation, practical activity in the laboratory

٢	٢	**Collection of Blood Samples**	Physiology	Theoretical lecture using PowerPoint, with practical experience and presentation of educational videos	Daily and final exams, seminar preparation, practical activity in the laboratory
٣	٢	**Blood Smears**	Physiology	Theoretical lecture using PowerPoint, with practical experience and presentation of educational videos	Daily and final exams, seminar preparation, practical activity in the laboratory
٤	٢	**Functions of Saliva & Taste Sensation**	Physiology	Theoretical lecture using PowerPoint, with practical experience and presentation of educational videos	Daily and final exams, seminar preparation, practical activity in the laboratory
٥	٢	**Stimulation and collection of salivary secretion**	Physiology	Theoretical lecture using PowerPoint, with practical experience and presentation of educational videos	Daily and final exams, seminar preparation, practical activity in the laboratory
٦	٢	**Separation of blood samples**	Physiology	Theoretical lecture using PowerPoint, with practical experience and presentation of educational videos	Daily and final exams, seminar preparation, practical activity in the laboratory
٧	٢	**Differential WBCs**	Physiology	Theoretical lecture using PowerPoint, with practical experience and presentation of educational videos	Daily and final exams, seminar preparation, practical activity in the laboratory
٨	٢	**Total Count of WBCs**	Physiology	Theoretical lecture using PowerPoint, with practical experience and presentation of educational videos	Daily and final exams, seminar preparation, practical activity in the laboratory
٩	٢	**Total Count of RBCs**	Physiology	Theoretical lecture using PowerPoint, with practical experience and presentation of educational videos	Daily and final exams, seminar preparation, practical activity in the laboratory
١٠	٢	**Blood groups**	Physiology	Theoretical lecture using PowerPoint, with practical experience and presentation of educational videos	Daily and final exams, seminar preparation, practical activity in the laboratory
١١	٢	**Estimation of Hemoglobin**	Physiology	Theoretical lecture using PowerPoint, with practical experience and presentation of educational videos	Daily and final exams, seminar preparation, practical activity in the laboratory
١٢	٢	**Bleeding and clotting time**	Physiology	Theoretical lecture using PowerPoint, with practical experience and presentation of educational videos	Daily and final exams, seminar preparation, practical activity in the laboratory

١٣	٢	**Self-Monitoring of blood glucose test**	Physiology	Theoretical lecture using PowerPoint, with practical experience and presentation of educational videos	Daily and final exams, seminar preparation, practical activity in the laboratory
١٤	٢	**Measurement of blood pressure &pulse rate**	Physiology	Theoretical lecture using PowerPoint, with practical experience and presentation of educational videos	Daily and final exams, seminar preparation, practical activity in the laboratory
١٥	٢	**Effect of exercise on blood pressure and respiratory rate**	Physiology	Theoretical lecture using PowerPoint, with practical experience and presentation of educational videos	Daily and final exams, seminar preparation, practical activity in the laboratory
١٦		**Mid Exam**			
١٧	٢	**Physiology of vision test**	Physiology	Theoretical lecture using PowerPoint, with practical experience and presentation of educational videos	Daily and final exams, seminar preparation, practical activity in the laboratory
١٨	٢	**Physiology of hearing test**	Physiology	Theoretical lecture using PowerPoint, with practical experience and presentation of educational videos	Daily and final exams, seminar preparation, practical activity in the laboratory
١٩	٢	**Physiology of Smell sensation**	Physiology	Theoretical lecture using PowerPoint, with practical experience and presentation of educational videos	Daily and final exams, seminar preparation, practical activity in the laboratory
٢٠	٢	**Measurement of body temperature**	Physiology	Theoretical lecture using PowerPoint, with practical experience and presentation of educational videos	Daily and final exams, seminar preparation, practical activity in the laboratory
٢١	٢	**Thyroid function (Body mass index)**	Physiology	Theoretical lecture using PowerPoint, with practical experience and presentation of educational videos	Daily and final exams, seminar preparation, practical activity in the laboratory
٢٢	٢	**Thyroid function (Body mass index)**	Physiology	Theoretical lecture using PowerPoint, with practical experience and presentation of educational videos	Daily and final exams, seminar preparation, practical activity in the laboratory
٢٣	٢	**Resuscitation &Artificial respiration**	Physiology	Theoretical lecture using PowerPoint, with practical experience and presentation of educational videos	Daily and final exams, seminar preparation, practical activity in the laboratory
٢٤	٢	**Resuscitation &Artificial respiration**	Physiology	Theoretical lecture using PowerPoint, with practical experience and presentation of educational videos	Daily and final exams, seminar preparation, practical activity in the laboratory

٢٥	٢	**Physiology of Skeletal Muscles**	Physiology	Theoretical lecture using PowerPoint, with practical experience and presentation of educational videos	Daily and final exams, seminar preparation, practical activity in the laboratory
٢٦	٢	**Physiology of Skeletal Muscles**	Physiology	Theoretical lecture using PowerPoint, with practical experience and presentation of educational videos	Daily and final exams, seminar preparation, practical activity in the laboratory
٢٧	٢	**Physiology of Skeletal Muscles**	Physiology	Theoretical lecture using PowerPoint, with practical experience and presentation of educational videos	Daily and final exams, seminar preparation, practical activity in the laboratory
٢٨	٢	**Examination of reflexes (Motor Function)**	Physiology	Theoretical lecture using PowerPoint, with practical experience and presentation of educational videos	Daily and final exams, seminar preparation, practical activity in the laboratory
٢٩	٢	**Seminars and examinations**	Physiology	Theoretical lecture using PowerPoint	Discussions
٣٠	٢	**Seminars and examinations**	Physiology	Theoretical lecture using PowerPoint	Discussions
		Final exam			

179. Course Evaluation

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

7% Annual pursuit (includes daily and monthly exams and practical requirements)

20% Final practical exam

180. Learning and Teaching Resources

Required textbooks (curricular books, if any)	1- Medical physiology (Gyton) 2- Essential physiology for dental students
Main references (sources)	

Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	

1. Course Name: Computer Sciences	
2. Course Code: 103CS	
3. Semester / Year: The first and second semesters of the first stage	
4. Description Preparation Date:2025-2025	
5. Available Attendance Forms: attendance in classroom for theoretical subject (weekly)	
6. Number of Credit Hours (Total) / Number of Units (Total) 30 hours theoretical/٢ academic units	
7. Course administrator's name (mention all, if more than one name)	
Name: Assist. prof. Dr. Suhad Sameer Hussein Email: suhadsameer@codental.uobadghdad.edu.iq	
8. Course Objectives	
Course Objectives	Introduction to computer science and teaches the student the performance of computers, approved methods, programs and the use of computers in the medical field…..
9. Teaching and Learning Strategies	
Strategy	1-Collaborative learning: encourages collaboration and interact between learners, to solve problems and discuss concepts.

	2-Active learning: focuses on actively engaging learners in the learning process, through the use of interactive activities such as roles, simulations, and hands-on experiences. 3-Technology-based learning: uses technology in the learning a teaching process, such as the use of multimedia and online learning.

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1+2	1	Introduction about computer /Hardware and Software/computer structure/`Floppy magnetic disks+ E-learning	Computer	Using a compu with a smart board	Daily, monthly, semi-annual and final exams
3+4	1	Introduction to learning Goo Classroom Platfo Google drive+ Goo forms	Comput	Using compute with	Daily, monthly, semi-annual and final exams
5+6	1	Online conferencin Introduction ab Windows /A look Windows 10/Stat Windows 10/Work with a windo Program+Working with files and fold Using My computer	Comput	a sm board	Daily, monthly, semi-annual and final exams
7+8	1	Working with Task and Desktop+ Us Windows Accessor	Comput	Using compute with	Daily, monthly, semi-

					annual and final exams
9+10	1	A look at Con Panel+ Widc Explorer	Comput	a smart board	Daily, monthl y, semi-annual and final exams
11+12	1	Libraries+ Introduction about Microsoft Word2016 A look at Microsoft Word /Editi Document	Comput	Using a compu with	Daily, monthl y, semi-annual and final exams
13	1	Formatting Text/ Formatting paragraphs/ Proofing documents	Computer	a smart board	Daily, monthl y, semi-annual and final exams
14	1	Adding Tables	Comput	Using a compu with	Daily, monthl y, semi-annual and final exams
15+16	1	Inserting Grap Elements+ Controll page Appearance	Computer	a smart board	Daily, monthl y, semi-annual and final exams
17+18	1	Introduction ab Excels /A Look Microsoft Exc Modifying	Computer	Using a compu with	Daily, monthl y, semi-

		Worksheet /performing Calculations			annual and final exams
19	1	Formatting worksheet/ Developing a w book/ Print Workbook Contents/Customizi Layout	Compute	a smart board	Daily, monthl y, semi-annual and final exams
20+21+2	1	Introduction ab Microsoft Access/ look at Micros Access+ Creating D tables /properties the fields	Compute	Using a compu with	Daily, monthl y, semi-annual and final exams
23	1	Querying database/Designing Forms/Producing reports	Computer	a smart board	Daily, monthl y, semi-annual and final exams
24+25	1	Introduction ab Microsoft Pov point/starting pov point2016	Computer	Using a compu with	Daily, monthl y, semi-annual and final exams
26	1	Formatting text/Us graphics and Text	Computer	a smart board	Daiy, monthl y, semi-annual and final exams
27+28	1	Manipulating slides/Using Multimedia Elemen	Compute	Using a compu with	Daily, monthl y, semi-

					annual and final exams
29	1	Power po Management	Comput	a sm board	Daily, monthl y, semi-annual and final exams
30	1	Power po Management	Comput	Using compute with	Daily, monthl y, semi-annual and final exams

11. Course Evaluation	
Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports	
12. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	Windows 10 Office 2016 Computer basics and office applications - parts one and two
Main references (sources)	1- Computer applicat in management 2-E-learning concepts a techniques
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	

181.	Course Name: Computer Sciences
182.	Course Code: 103CS

183. Semester / Year: The first and second semesters of the first stage

184. Description Preparation Date:2025-2025

185. Available Attendance Forms: attendance in classroom for theoretical subject (weekly)

186. Number of Credit Hours (Total) / Number of Units (Total) ٦٠ hours theoretical/٢academic units

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

- lecturer. Raghad khalid Raghad_meme@codental.uobaghdad.edu.i
- Lecturer. Wood majeed Wood.majid@codentl.uobaghdad.edu.iq
- Assistant Lecturer iman amer eman.a@codental.uobaghdad.edu.iq

188. Course Objectives

Course Objective	Introduction to computer science and teaches the student the performance of computers, approved methods, programs and use of computers in the medical field.

189. Teaching and Learning Strategies

Strategy	1-Collaborative learning: encourages collaboration and interact between learners, to solve problems and discuss concepts. 2-Active learning: focuses on actively engaging learners in the learning process, through the use of interactive activities such as roles, simulations, and hands-on experiences. 3-Technology-based learning: uses technology in the learning a teaching process, such as the use of multimedia and online learning.

190. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1+2	1	Introduction about computer /Hardware and Software/computer structure/`Floppy magnetic disks+ E-learning	Computer	Using a computer with a smart board	Daily,monthly,semi-annual and final exams
3+4	1	Introduction to learning Goo Classroom Platform Goo drive+ Goo forms	Computer	Using a computer with a smart board	Daily, monthly, semi-annual and final exams
5+6	1	Online conferencing+ Introduction ab Windows /A loo Windows 10/Stating Windows 10/Working wit windows Program+Worki with files folders/ Using computer	Computer	Using a computer with a smart board	Daily, monthly, semi-annual and final exams
7+8	1	Working w Taskbar Desktop+ Us Windows Accessories	Computer	Using a computer with a smart board	Daily, monthly, semi-annual and final exams
9+10	1	A look at Con Panel+ Wido Explorer	Cor ute	Using a computer with a	Daily, monthly, semi-annual

				smart board	and final exams
11+12	1	Libraries+ Introduction about Microsoft Word2016 A look at Microsof Word /Editing Documer	Cor ute	Using a comput er with a smart board	Daily, monthly, semi-annual and final exams
13	1	Formatting Text/ Formatting paragraphs/ Proofing documents	Cor ute	Using a comput er with a smart board	Daily, monthly, semi-annual and final exams
14	1	Adding Tables	Cor ute	Using a comput er with a smart board	Daily, monthly, semi-annual and final exams
15+16	1	Inserting Grap Elements+ Controlling p Appearance	Cor ute	Using a comput er with a smart board	Daily, monthly, semi-annual and final exams
17+18	1	Introduction ab Excels /A Look Microsoft Exc Modifying Worksheet /performing Calculations	Computer	Using a comput er with a smart board	Daily, monthly, semi-annual and final exams
19	1	Formatting worksheet/ Developing a w book/ Print Workbook Contents/Custon ng Layout	Computer	Using a comput er with a smart board	Daily, monthly, semi-annual and final exams
20+21 2	1	Introduction ab Microsoft Acce A look at Micros	Computer	Using a comput er with a	Daily, monthly, semi-

		Access+ Creat Data tab /properties of fields		smart board	annual and final exams
23	1	Querying database/Design Forms/Producing reports	Cor ute	Using a comput er with a smart board	Daily, monthly, semi-annual and final exams
24+25	1	Introduction ab Microsoft Pov point/starting power point2016	Cor ute	Using a comput er with a smart board	Daily, monthly, semi-annual and final exams
26	1	Formatting text/Using graph and Text	Cor ute	Using a comput er with a smart board	Daily, monthly, semi-annual and final exams
27+28	1	Manipulating slides/Using Multimedia Elements	Cor ute	Using a comput er with a smart board	Daily, monthly, semi-annual and final exams
29	1	Power po Management	Cor ute	Using a comput er with a smart board	Daily, monthly, semi-annual and final exams
30	1	Microsof Access	Cor ute	Using a comput er with a smart board	Daily, monthly, semi-annual and final exams
191. Course Evaluation					
Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports					
192. Learning and Teaching Resources					
Required textbooks (curricular books, if ar		Windows 10 Office 2016			

	Computer basics and office applications - parts one and two
Main references (sources)	1-Computer application management 2-E-learning concepts a techniques
Recommended books and references (scientific journals, reports…) Electronic References, Websites	

193. Course Name:	
Head and neck Anatomy	
194. Course Code:	
209AT	
195. Semester / Year:	
2025– 2025	
196. Description Preparation Date:	
2/5/2025	
197. Available Attendance Forms:	
Attendance in the classroom for the theoretical part	
198. Number of Credit Hours (Total) / Number of Units (Total)	
30 hours/60 credits	
199. Course administrator's name (mention all, if more than one name)	
Dr. Ahmed Fadel Ibrahim Dr. Firas Abdul Rahman Jameel Dr. Muhammad Abdel Razzaq Hameed	
200. Course Objectives	
Course Objective	• **The course objectives for anatomy in a dentistry school typically aim to provide student with a thorough understanding of the human body's structure, particularly focusing**

	on areas relevant to dental practice. Here are some common objectives: • **Fundamental Knowledge: Understand the basic concepts of human anatomy, including terminology, the organization of the human body, and the relationship between struc and function.** • **Head and Neck Anatomy: Gain detailed knowledge of the anatomy of the head, neck, oral cavity, including bones, muscles, nerves, blood vessels, and lymphatic structures.**

201. Teaching and Learning Strategies

Strategy	designed to provide comprehensive knowledge and practical skills through various educational methods. Here are some common strategies: 1. Lectures Purpose: To provide foundational knowledge and an overvie of anatomical concepts. Approach: Use of multimedia presentations, detailed diagram and clinical correlations to enhance understanding. . 2- 3D Models and Simulations Purpose: To provide visual and tactile learning experiences. Approach: Use of physical models and digital simulations study complex anatomical structures and their relationships.

202. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
& ٢	٢		**Scalp** Layers of the scalp Muscles of the scalp Sensory Nerve Supply of the Scalp Arterial Supply of the Scalp	Theoreti lecture using PowerPo presenta n	Daily, mont semi-annua and f exam

			Venous Drainage of the Scalp Lymph Drainage of the Scalp Clinical Notes		
& ٤	٢		**The orbital region** Eyelids Movements of the Eyelids Lacrimal Apparatus Openings into the Orbital Cavity Nerves of the Orbit Blood and Lymph Vessels of the Orbit Structure of the Eye Clinical Notes	Theoretical lect using PowerP presentation	Daily, mont semi-annual final exams
& ٦	٢		**The Nasal region** The Nose External Nose Nerve Supply of the External Nose Blood Supply and Venous Drainage of the External Nose Nasal Cavity Mucous Membrane of the Nasal Cavity Nerve Supply of the Nasal Cavity Blood Supply to the Nasal Cavity Venous Drainage of the Nasal Cavity Lymph Drainage of the Nasal Cavity	Theoretical lect using PowerP presentation	Daily, mont semi-annual final exams

			The Paranasal Sinuses Drainage of Mucus and Functions of Paranasal Sinuses Clinical Notes		
٧	١		**Mandibular nerve** Introduction Branches of the Mandibular Nerve Otic Ganglion Clinical Notes	Theoreti lecture using PowerPo presenta n	Daily, mont semi-annua and f exam
& ٩	٢		**Face** Skin of the Face Muscles of the Face (Muscles of Facial Expression) Sensory Nerves of the Face Arterial Supply of the Face venous driange of the Face venous driange of the Face Lymphatic driange of the face Facial nerve	Theoreti lecture using PowerPo presenta n	Daily, mont semi-annua and f exam
١ ١ ١	٢		**Oral cavity** The Lips The oral Cavity vestibule and Proper Sensory innervation of the Mouth Hard Palate & Soft palate Muscles of the Soft Palate Palatoglossal A & Palatopharyn Arch	Theoreti lecture using PowerPo presenta n	Daily, mont semi-annua and f exam
١	١		**Tongue**	Theoreti lecture	Daily, mont

			Mucous Membrane of the Tongue Muscles of the Tongue Movements of Tongue	using PowerPo presenta n	semi- annua and f exam
١	١		**Temporal region** The temporal fossa anatomy The infratemporal fossa Communications Muscles mastication	Theoreti lecture using PowerPo presenta n	Daily, mont semi- annua and f exam
١ ١ ٥	٢		**Parotid gland** Parotid Region (Boundaries) Parotid Gland Parotid Duct Innervation of Parotid Gland and Related Structures Arterial Supply Venous Drainage Lymph Drainage The Buccal Pad of Fat Clinical Notes	Theoreti lecture using PowerPo presenta n	Daily, mont semi- annua and f exam
١	١		**The Pterygopalatine fossa** Boundaries, Communications and openings Maxillary nerve Branches from the pterygopalatine ganglion THE PTERYGOPALATINE GANGLION THE VEINS THE PTERYGOPALA NE FOSSA	Theoreti lecture using PowerPo presenta n	Daily, mont semi- annua and f exam

١	١		**Temporomandibular joint** Introduction The Articular Disk Retrodiscal Tissue Capsule Synovial Membrane Ligaments Nerve Supply Vascular Supply Movements Important Relations of the 2Temporomandibular Joint C1linical Notes	Theoreti lecture using PowerPo presenta n	Daily, mont semi- annua and f exam
١ ١ ٩	٢		**The neck** Overview Skin of the Neck Fasciae of the Neck Superficial Cervical Fascia Deep Cervical Fascia Cervical Ligaments Muscles of the Neck Cervical Plexus Bones of Neck Blood Supply Key Neck Musc	Theoreti lecture using PowerPo presenta n	Daily, mont semi- annua and f exam
٢	١		**Brain** Nervous System Gross Anatomy of the Brain Parts of the Brain Ventricular System of the Brain The Venous Blood Sinuses (Dural Sinuses)	Theoreti lecture using PowerPo presenta n	Daily, mont semi- annua and f exam

			Blood Supply of the Brain Cranial Meninges Dural Nerve Supply Dural Arterial Supply Dural Ver Drainage		
٢ ٢ ٢	٢		**triangles of the neck** ANTERIOR TRIANGLE SUBMENTAL TRIANGLE SUBMANDIBULAR TRIANGLE CAROTID TRIANGLE MUSCULAR TRIANGLE Posterior Triangle Thyroid Gland blood supply & venous drainage nerve supply	Theoreti lecture using PowerPo presenta n	Daily, mont semi- annua and f exam
٢	١		**Submandibular region** MUSCLES OF THE SUBMANDIBULAR REGION The submandibular gland Sublingual Glan	Theoreti lecture using PowerPo presenta n	Daily, mont semi- annua and f exam
٢ ٢ ٥	٢		**The root of the neck** Muscles of the Root of the Neck The Thoracic Duct Main Nerves of the Neck Cervical Plexus & Brachial Plexus Lymph Drainage of the Head and Neck	Theoreti lecture using PowerPo presenta n	Daily, mont semi- annua and f exam

			Veins of the H and Neck		
٢ ٢ ٢ ٧	٢		**Arteries of the neck** Common Carotid Artery Caroti d Sinus Carotid Body External Carotid Artery Internal Carotid Artery Subclavian Arteries (3 parts) Circle of Willis	Theoreti lecture using PowerPo presenta n	Daily, mont semi- annua and f exam
٢	١		**Cranial nerves** Introduction Functional Components Summary cranial nerves	Theoreti lecture using PowerPo presenta n	Daily, mont semi- annua and f exam
٢	١		**Pharynx** Muscles of the Pharynx Pharynx divisions Palatine Tonsils Waldeyer's R of Lymph Tissue	Theoreti lecture using PowerPo presenta n	Daily, mont semi- annua and f exam
٣	١		**Larynx** Cartilages of the Larynx Membranes and Ligaments of the Larynx Inlet of the Larynx Laryngeal Folds Muscles of the Larynx	Theoreti lecture using PowerPo presenta n	Daily, mont semi- annua and f exam

			Nerve & Blo Supply of Larynx		

203. Course Evaluation
Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc 15% Mid- year exam. 25% annual pursuit (includes summer training, daily and monthly exams, and practical requirements) 25% final practical exam 35% final theoretical exam

204. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	1.Snell Clinical anatomy 7th edition. 2. Netter's head and neck anatomy for dentistry 2nd edition 2012.
Main references (sources)	1.Snell Clinical anatomy 7th edition. 2. Netter's head and neck anatomy for dentistry 2nd edition 2012.
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	

205. Course Name: Microbiology
206. Course Code: 315MB

207. Semester / Year: 2025-2025

208. Description Preparation Date: 2/5/2025

209. Available Attendance Forms: Attendance in the classroom of the theoretical subject

210. Number of Credit Hours (Total) / Number of Units (Total): 60 hours/ ٤ units of study

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

Name: Abbas Sabri
Email: abbas. @codental.uobaghdad.edu.iq

Name: Batool Hassan
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212. Course Objectives

Course Objectives	**• Identifying the principles of microbiology and epidemiological diseases, knowing characteristics of microorganisms in general, and the special characteristics of pathogenic microorganisms such as bacteria, fungi, and viruses, the mechanism of cau diseases by these organisms, their diagnosis, and how to differentiate between each typ these pathogens and the tests that detect and treat them. • Identifying non-pathogenic (beneficial) bacteria that are naturally present in the bod and their effects on pathogenic organisms on the one hand. • Identifying the ways of transmission of infection, especially in the field of dentistry • This course aims to study immunity, the mechanics of the body's defenses, the imm response to diseases, modern and advanced methods of diagnosing microbial diseases, addressing sterilization methods and how to apply them with regard to dentistry.....**

213. Teaching and Learning Strategies

Strategy	• **Lectures using the [Power Point] program** • **Presentation of educational videos.** • **Guiding students to some websites to benefit from them** • **Follow up on students' way of thinking, expression, and speed of response thro discussions**

214. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
١	٢	Morphology, Ultra structures, physiology and metabolism of microorganisms: - -Eukaryotic & Prokaryotic cells -Cell structure of prokaryotes -Comparison between G+ve & G-ve cell wall	Microbiology	Theoretical lecture usi Power Point	Daily, monthly, semi-annual and final exams
2	٢	-Microbial growth, growth curve -Metabolism of microorganisms Molecular biology & bacterial genetics	Microbiology	Theoretical lecture usi PowerPoint	Daily, monthly, semi-annual and final exams
3	٢	-Sterilization and Disinfection	Microbiology	Theoretical lecture usi PowerPoint	Daily, monthly, semi-annual and final exams
4	٢	Antibiotic and chemotherapy:- -Antibiotic, sources -Mode of action of antibiotic -Anti-microbial sensitivity tests -Bacterial resistance -Prophylactic use	Microbiology	Theoretical lecture usi PowerPoint	Daily, monthly, semi-annual and final exams
5	٢	- Introduction to general immunology and oral immunology - Non-specific and specific immunity - Antigen - Immunoglobulin - Humeral and Cellular Immunity	Microbiology	Theoretical lecture usi PowerPoint	Daily, monthly, semi-annual and final exams
6	٢	- Cells and organs of the immune system - Complement system - Human leukocyte antigen - Role of complement and HLA in oral disease	Microbiology	Theoretical lecture usi PowerPoint	Daily, monthly, semi-annual and final exams
7	٢	- Oral and mucosal immunity - Autoimmunity and immune tolerance	Microbiology	Theoretical lecture usi PowerPoint	Daily, monthly, semi-annual and final exams
8	٢	- Hypersensitivity reactions - Antimicrobial and immunological defenses of saliva and gingival crevicular fluid components	Microbiology	Theoretical lecture usi PowerPoint	Daily, monthly, semi-annual and final exams
9	٢	Host-parasite relationship & Nosocomial infection -Symbiosis, Commensalism, Amphibiosis, Antagonistic -Sources of infection in hospital and -nosocomial infections -Post-operative wound infection, burns infections	Microbiology	Theoretical lecture usi PowerPoint	Daily, monthly, semi-annual and final exams
10	٢	Streptococci -Pyogenic Streptococci -Lancefield group -Pathogenesis of streptococci -Epidemiology, treatment and prevention -Viridans streptococci -Pneumococci	Microbiology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams

11	٢	Staphylococci -Virulence factors - and pathogenesis -Epidemiology, treatment and prevention	Microbiology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
12	٢	G- negative diplococcic , Vellionella and Moraxella Neisseria gonorrhea, N. meningitidis	Microbiology	Theoretical lecture usi PowerPoint	Daily, monthly, semi-annual and final exams
13	٢	Lactobacilli, Actinomyces and *Corynebacterium diphtheriae* & Diphtheroids	Microbiology	Theoretical lecture usi PowerPoint	Daily, monthly, semi-annual and final exams
14	٢	Bacillus: B. subtilis, B. anthracis and B.ceres	Microbiology	Theoretical lecture usi PowerPoint	Daily, monthly, semi-annual and final exams
15	٢	Clostridium : C. perfringenis , C. tetani, C. botulinum, and difficile	Microbiology	Theoretical lecture usi PowerPoint	Daily, monthly, semi-annual and final exams
16	٢	Enterobacteriaceae -E.coli, Salmonella, Shigella,	Microbiology	Theoretical lecture usi PowerPoint	Daily, monthly, semi-annual and final exams
17	٢	Enterobacter, Klebsiella, proteus, Yersinia	Microbiology	Theoretical lecture usi PowerPoint	Daily, monthly, semi-annual and final exams
18	٢	Mycobacteruim Tuberculosis & Leprae	Microbiology	Theoretical lecture usi PowerPoint	Daily, monthly, semi-annual and final exams
19	٢	Brucella, Haemophilus, Vibirio	Microbiology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
20	٢	- Aggregatibacter, porphyromonas, prevotella, Bacteroids	Microbiology	Theoretical lecture usi PowerPoint	Daily, monthly, semi-annual and final exams
21	٢	Fusiforms and Spirochaetes -Fusobacterium, leptotichia	Microbiology	Theoretical lecture usi PowerPoint	Daily, monthly, semi-annual and final exams
22	٢	Treponema and oral Treponema	Microbiology	Theoretical lecture usi PowerPoint	Daily, monthly, semi-annual and final exams
23	٢	Mycoplasma, Chlamydia and Rickittsiae	Microbiology	Theoretical lecture usi PowerPoint	Daily, monthly, semi-annual and final exams
24	٢	Ecology of oral flora -Indigenous flora -Supplemental flora -Transient flora -Sources of oral bacteria -Factors modulating growth of bacteria in the oral cavity	Microbiology	Theoretical lecture usi PowerPoint	Daily, monthly, semi-annual and final exams
25	٢	Microbiology of dental caries -Dental plaque & plaque metabolism - plaque homeostasis -cariogenic microorganisms -Mutans Streptococci -Lactobacilli and Actinomyces-	Microbiology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
26	٢	Microbial colonization- Caries prevention- Antibacterial factors in saliva- -Vaccination against dental caries	Microbiology	Theoretical lecture usi PowerPoint	Daily, monthly, semi-annual and final exams
27	٢	Microbiology of periodontal disease and Endodontics -Subgingival microbial complex -specific , non-specific and Ecological plaque hypothesis	Microbiology	Theoretical lecture usi PowerPoint	Daily, monthly, semi-annual and final exams

		- Porphyromonas, prevotella, Aggregatibacter virulence factors of periodontal pathogens endodontic microbiota and Routes of root canal infection -ecology of endodontic microbiology			
28	٢	Virology -general structure of viruses -classification	Microbiology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
29	٢	viral replication -Isolation & diagnosis -Oral virology	Microbiology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
30	٢	- Oral mycology and Oralparasitology Introduction,epidemiology, transmission -E.histolotica, E.gingivalis, T.tenax -Fungal cells-classification -Candida	Microbiology	Theoretica lecture usi PowerPoi	Daily, monthly, semi-annual and final exams
				Final exam	

215. Course Evaluation

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

15% mid exam
25% Annual pursuit (includes daily and monthly exams and practical requirements)
20% Final practical exam
40% Final Theoretical Exam

216. Learning and Teaching Resources

Required textbooks (curricu books, if any)	
Main references (sources)	-Medical microbiology Jawetz, Melnick, & Adelberg's (2019) - Oral microbiology Marsh & Martin`s (2016) -Kuby Immunology Eighth Edition ©2019 -Essential Microbiology for Dentistry 5th Edition (2018)
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	

217. Course Name: Microbiology

218. Course Code: 315MB

219. Semester / Year: 2025-2025

220. Description Preparation Date: 2/5/2025

221. Available Attendance Forms: Attendance in the classroom of the theoretical subject

222. Number of Credit Hours (Total) / Number of Units (Total): 60 hours/ ٤ units of study

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

Name: Abbas Sabri Email: abbas. @codental.uobaghdad.edu.iq
Name: Batool Hassan Email: batoolamms@codental.uobaghdad.edu.iq
Name: Maha Adel Email: adelmaha70@codental.uobaghdad.edu.iq
Name: zainab Abdljabar

Email: zainab.aldhahir@codental.uobaghdad.edu.iq

224. Course Objectives

Course Objectives	**• Identifying the principles of microbiology and epidemiological diseases, knowing the characteristi microorganisms in general, and the special characteristics of oral pathogenic microorganisms su bacteria, fungi, and viruses, the mechanism of causing diseases by these organisms, their diagnosis how to differentiate between each type of these pathogens and the tests that detect and treat them.** **• Identifying non-pathogenic (beneficial) bacteria that are naturally present in the body and their eff on pathogenic organisms on the one hand.** **• Identifying the ways of transmission of infection, especially in the field of dentistry** **• This course aims to study immunity, the mechanics of the body's defenses, the immune response to diseases, modern and advanced methods of diagnosing microbial diseases, and addressing sterilization methods and how to apply them with regard to dentistry.....**

225. Teaching and Learning Strategies

Strategy	• **Lectures using the [Power Point] program** • **Presentation of educational videos.** • **Guiding students to some websites to benefit from them** • **Follow up on students' way of thinking, expression, and speed of response through discussions**

226. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
١	٢	Orientation to the Microbiology laboratory	Microbiology	Theoretical lecture using PowerPoint, with practical experience and presentation of educational videos	Daily and final exams, seminar preparation, practical activity in the laboratory
٢	٢	The microscope	Microbiology	Theoretical lecture using PowerPoint, with practical experience and presentation of educational videos	Daily and final exams, seminar preparation, practical activity in the laboratory
٣	٢	Sterilisation and disinfection	Microbiology	Theoretical lecture using PowerPoint, with practical experience and presentation of educational videos	Daily and final exams, seminar preparation, practical activity in the laboratory
٤	٢	Bacterial growth	Microbiology	Theoretical lecture using PowerPoint, with practical experience and presentation of educational videos	Daily and final exams, seminar preparation, practical activity in the laboratory
٥	٢	Types of culture media	Microbiology	Theoretical lecture using PowerPoint, with practical experience and presentation of educational videos	Daily and final exams, seminar preparation, practical activity in the laboratory
٦	٢	Sampling and transport of test material	Microbiology	Theoretical lecture using PowerPoint, with practical experience and presentation of educational videos	Daily and final exams, seminar preparation, practical activity in the laboratory
٧	٢	Laboratory cultivation of microorganisms	Microbiology	Theoretical lecture using PowerPoint, with practical experience and presentation of educational videos	Daily and final exams, seminar preparation, practical activity in the laboratory
٨	٢	Bacterial identification: 1-Macroscopical characteristics (colonial morphology and cultural characteristics).	Microbiology	Theoretical lecture using PowerPoint, with practical experience and presentation of educational videos	Daily and final exams, seminar preparation, practical activity in the laboratory
٩	٢	2. Microscopical examination (morphology of bacterial cells).	Microbiology	Theoretical lecture using PowerPoint, with practical experience and presentation of educational videos	Daily and final exams, seminar preparation, practical activity in the laboratory
١٠	٢	Staining	Microbiology	Theoretical lecture using PowerPoint, with practical experience and presentation of educational videos	Daily and final exams, seminar preparation, practical activity in the laboratory

١١	٢	Biochemical tests (part 1).	Microbiology	Theoretical lecture using PowerPoint, with practical experience and presentation of educational videos	Daily and final exams, seminar preparation, practical activity in the laboratory
١٢	٢	Biochemical tests(part2).	Microbiology	Theoretical lecture using PowerPoint, with practical experience and presentation of educational videos	Daily and final exams, seminar preparation, practical activity in the laboratory
١٣	٢	Biochemical tests(part3).	Microbiology	Theoretical lecture using PowerPoint, with practical experience and presentation of educational videos	Daily and final exams, seminar preparation, practical activity in the laboratory
١٤	٢	Antibiotic sensitivity test(part 1).	Microbiology	Theoretical lecture using PowerPoint, with practical experience and presentation of educational videos	Daily and final exams, seminar preparation, practical activity in the laboratory
١٥	٢	Antibiotic sensitivity test(part 2).	Microbiology	Theoretical lecture using PowerPoint, with practical experience and presentation of educational videos	Daily and final exams, seminar preparation, practical activity in the laboratory
١٦		Serological tests (antigen and antibody detection tests) (part 1).	Microbiology	Theoretical lecture using PowerPoint, with practical experience and presentation of educational videos	Daily and final exams, seminar preparation, practical activity in the laboratory
١٧	٢	Serological tests (antigen and antibody detection tests) (part 2).	Microbiology	Theoretical lecture using PowerPoint, with practical experience and presentation of educational videos	Daily and final exams, seminar preparation, practical activity in the laboratory
١٨	٢	Nucleic acid assays, Animal pathogenicity test	Microbiology	Theoretical lecture using PowerPoint, with practical experience and presentation of educational videos	Daily and final exams, seminar preparation, practical activity in the laboratory
١٩	٢	Staphylococci	Microbiology	Theoretical lecture using PowerPoint, with practical experience and presentation of educational videos	Daily and final exams, seminar preparation, practical activity in the laboratory
٢٠	٢	Streptococci	Microbiology	Theoretical lecture using PowerPoint, with practical experience and presentation of educational videos	Daily and final exams, seminar preparation, practical activity in the laboratory
٢١	٢	Corynebacterium	Microbiology	Theoretical lecture using PowerPoint, with practical experience and presentation of educational videos	Daily and final exams, seminar preparation, practical activity in the laboratory
٢٢	٢	Spore-forming Gram-positive bacilli: Bacillus spp.	Microbiology	Theoretical lecture using PowerPoint, with practical experience and presentation of educational videos	Daily and final exams, seminar preparation, practical activity in the laboratory

٢٣	٢	Clostridium spp.	Microbiology	Theoretical lecture using PowerPoint, with practical experience and presentation of educational videos	Daily and final exams, seminar preparation, practical activity in the laboratory
٢٤	٢	Mycobacterium spp.	Microbiology	Theoretical lecture using PowerPoint, with practical experience and presentation of educational videos	Daily and final exams, seminar preparation, practical activity in the laboratory
٢٥	٢	Enterobacteriaceae (part1)	Microbiology	Theoretical lecture using PowerPoint, with practical experience and presentation of educational videos	Daily and final exams, seminar preparation, practical activity in the laboratory
٢٦	٢	Enterobacteriaceae (part2)	Microbiology	Theoretical lecture using PowerPoint, with practical experience and presentation of educational videos	Daily and final exams, seminar preparation, practical activity in the laboratory
٢٧	٢	Enterobacteriaceae(part3)	Microbiology	Theoretical lecture using PowerPoint, with practical experience and presentation of educational videos	Daily and final exams, seminar preparation, practical activity in the laboratory
٢٨	٢	Neisseriae spp.	Microbiology	Theoretical lecture using PowerPoint, with practical experience and presentation of educational videos	Daily and final exams, seminar preparation, practical activity in the laboratory
٢٩	٢	Virology	Microbiology	Theoretical lecture using PowerPoint	Daily and final exams, seminar preparation, practical activity in the laboratory
٣٠	٢	Mycology	Microbiology	Theoretical lecture using PowerPoint	Daily and final exams, seminar preparation, practical activity in the laboratory

		Final exam			

227. Course Evaluation

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

7% Annual pursuit (includes daily and monthly exams and practical requirements)

20% Final practical exam

228. Learning and Teaching Resources

Required textbooks (curricular books, if any)	-Medical microbiology Jawetz, Melnick, & Adelberg's (2019) - Oral microbiology Marsh & Martin`s (2016) -Kuby Immunology Eighth Edition ©2019 -Essential Microbiology for Dentistry 5th Edition (2018)
Main references (sources)	
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	

229. Course Name: **Pharmacology**

230. Course Code: Pharmacology/

231. Semester / Year:2025-2025

232. Description Preparation Date: 5/5/2025

233. Available Attendance Forms: Attendance in the classroom of the theoretical subject

234. Number of Credit Hours (Total) / Number of Units (Total): 60 hours/ ٤ units of study

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

Name: Asst Prof. Dr. Noor Raouf Al-Hasani Email: noor.raouf@codental.uobaghdad.edu.iq

236. Course Objectives

Course Objectives	• Identifying the medications that are most necessary for dentists to understand • Understanding terms related to medications • Enabling students to identify key drug information like mode of action, reasons for use and prescribing and side effects of drugs • Also to comprehend most important applications and interactions of drugs in dentistry

237. Teaching and Learning Strategies

Strategy	• Lectures using the [Power Point] program • Presentation of educational videos. • Guiding students to some trusted websites • Follow up on students' way of thinking, expression, and speed of response through discussions

238. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
١	2	**Pharmacology: General concepts**	Pharmacology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams

٢	2	**Pharmacokinetics and pharmacodynamics**	Pharmacology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
٣	2	**Autonomic nervous system from a pharmacological perspective (including cholinergic agonist and antagonist)**	Pharmacology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
٤	2	**Adrenergic agonists**	Pharmacology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
٥	2	**Adrenergic antagonists**	Pharmacology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
٦	2	**Antihypertensive drugs**	Pharmacology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
٧	2	**Management of angina and heart failure**	Pharmacology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
٨	2	**Management of arrhythmia**	Pharmacology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
٩	3	**Anticoagulants, antiplatelet and anti-hyperlipidemic drugs and Local Hemostatic Agents in Dentistry**	Pharmacology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
١٠	2	**Introduction the pharmacology of CNS drugs, sedative, hypnotics and antiseizures drugs**	Pharmacology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
١١	2	**Antipsychotic and antidepressant drugs**	Pharmacology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
١٢	2	**Local and general anesthetics**	Pharmacology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual

					and final exams
١٣	2	**Drug of abuse and opioid analgesics**	Pharmacology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
١٤	2	**Managements of diabetes mellitus**	Pharmacology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
١٥	2	**Drugs affecting GIT**	Pharmacology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
				Half-year Break	
١6	3	**Drugs acting on respiratory system (antihistamines and corticosteroids)**	Pharmacology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
١7	2	**Non-steroidal anti-inflammatory drugs (NSAIDs) part 1**	Pharmacology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
١8	2	**Non-steroidal anti-inflammatory drugs (NSAIDs) part2 and Steroids in Dentistry**	Pharmacology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
19	2	**Chemotherapeutic drugs (Principles of antimicrobial therapy)**	Pharmacology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
٢0	2	**Cell wall inhibitors (part1)**	Pharmacology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
٢1	2	**Cell wall inhibitors (part 2)**	Pharmacology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
٢2	2	**Protein synthesis inhibitors**	Pharmacology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams

٢3	٣	**Quinolones, Folic acid antagonists an antimycobacterial**	Pharmacology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
٢4	2	**Antifungal, antiviral and antiprotozoa drugs**	Pharmacology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
٢5	2	**Sex hormone and contraceptive**	Pharmacology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
٢6	2	**Thyroid hormones and anti-thyroid drugs**	Pharmacology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
٢7	1	**Anticancer drugs**	Pharmacology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
٢8	1	**Dental Pharmacology: drugs an chemicals used in dental clinic**	Pharmacology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
29	1	**Anticaries and drugs used in prevention of dental plaque**	Pharmacology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
30	2	**Essential emergency drugs in dental clinic**	Pharmacology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
Final exam					

239. Course Evaluation

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

15% mid-term exam

25% Annual quest of students (includes daily and monthly exams and practical requirements)

20% Final practical exam

40% Final Theoretical Exam

240. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	
Main references (sources)	1- Pharmacology (Lippincott Illustrated Reviews Series) 8th Edition (2025) 2- Contemporary Dental Pharmacology: Evidence-Based Considerations 1st ed (2019) 3- Basic & Clinical Pharmacology (sixte Edition,2025)
Recommended books and references (scientific journals, reports…)	Pharmacology and Therapeutics for Dentistry (7th edition, 2017)
Electronic References, Websites	

241. Course Name: Pharmacology
242. Course Code: Pharmacology
243. Semester / Year:2025-2025
244. Description Preparation Date: ٥/5/2025
245. Available Attendance Forms: Attendance in the laboratory for the practical experiments
246. Number of Credit Hours (Total) / Number of Units (Total): 60 hours/ ٢ units of study
247. Course administrator's name (mention all, if more than one name)
Name: Asst Prof. Dr. Noor Raouf Al-Hasani Email: noor.raouf@codental.uobaghdad.edu.iq

248. Course Objectives

Course Objectives	•Preparing the student practically in terms of applying the knowledge gained • Thinking about solving problems •Developing the student's ability to deal with multiple means of learning •Identifying the medications that are most necessary for dentists to understand •Understanding terms related to medications •Enabling students to identify key drug information like mode of action, reasons for use and prescribing and side effects of drugs •Also to comprehend most important applications and interactions of drugs in dentistry •Prescription writing practices

249. Teaching and Learning Strategies

Strategy	• Conducting practical experiments to increase student understanding and awareness • Lectures using the [Power Point] program • Presentation of educational videos. • Guiding students to some websites to benefit from them • Follow up on students' way of thinking, expression, and speed of response through discussions and practical activities

250. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
١	٢	Theoretical lecture using PowerPoint, with practical experience and presentation of educational videos	Pharmacology	**Introduction and animal (e.g rabbits) handling**	Daily and final exams, seminar preparation, practical activity in the laboratory
٢	٢	Theoretical lecture using PowerPoint, with practical experience and presentation of educational videos	Pharmacology	**Routes of drug administration (Oral route) -Part 1**	Daily and final exams, seminar preparation, practical activity in the laboratory
٣	٢	Theoretical lecture using PowerPoint, with practical experience and	Pharmacology	**Routes of drug administration (Parenteral route)- Part 2**	Daily and final exams, seminar preparation,

		presentation of educational videos			practical activity in the laboratory
٤	٢	Theoretical lecture using PowerPoint, with practical experience and presentation of educational videos	Pharmacology	**Clinical parameters in drug pharmacokinetics (Part 1)**	Daily and final exams, seminar preparation, practical activity in the laboratory
٥	٢	Theoretical lecture using PowerPoint, with practical experience and presentation of educational videos	Pharmacology	**Clinical parameters in drug pharmacokinetics (Part 2)**	Daily and final exams, seminar preparation, practical activity in the laboratory
٦	٢	Theoretical lecture using PowerPoint, with practical experience and presentation of educational videos	Pharmacology	**Demonstration of common dosage forms used in clinical practice (Part 1)**	Daily and final exams, seminar preparation, practical activity in the laboratory
٧	٢	Theoretical lecture using PowerPoint, with practical experience and presentation of educational videos	Pharmacology	**Demonstration of common dosage forms used in dentistry (Part 2)**	Daily and final exams, seminar preparation, practical activity in the laboratory
٨	٢	Theoretical lecture using PowerPoint, with practical experience and presentation of educational videos	Pharmacology	**Cholinergic agonists and antagonists (Physostigmine Vs Curare)**	Daily and final exams, seminar preparation, practical activity in the laboratory
٩	٢	Theoretical lecture using PowerPoint, with practical experience and presentation of educational videos	Pharmacology	**Effects of Drugs on Human Blood Pressure (Part 1-B-Blockers)**	Daily and final exams, seminar preparation, practical activity in the laboratory
١٠	٢	Theoretical lecture using PowerPoint, with practical experience and presentation of educational videos	Pharmacology	**Effects of Drugs on Human Blood Pressure (Part 2) (Nitrates Effect on Human Volunteers)**	Daily and final exams, seminar preparation, practical activity in the laboratory
١١	٢	Theoretical lecture using PowerPoint, with practical experience and presentation of	Pharmacology	**Effects of Drugs on The Arterial Blood Pressure of Human (Part-3)**	Daily and final exams, seminar preparation, practical activity in the laboratory

		educational videos			
١٢	٢	Theoretical lecture using PowerPoint, with practical experience and presentation of educational videos	Pharmacology	**The effects of drugs and light on human eyes**	Daily and final exams, seminar preparation, practical activity in the laboratory
١٣	٢	Theoretical lecture using PowerPoint, with practical experience and presentation of educational videos	Pharmacology	**The effects of drugs and light on animal eyes**	Daily and final exams, seminar preparation, practical activity in the laboratory
١٤	٢	Theoretical lecture using PowerPoint, with practical experience and presentation of educational videos	Pharmacology	**Effects of parasympathomimetic drugs on glandular secretions**	Daily and final exams, seminar preparation, practical activity in the laboratory
١٥	٢	Theoretical lecture using PowerPoint, with practical experience and presentation of educational videos	Pharmacology	**The response of human skin to histamine and adrenaline**	Daily and final exams, seminar preparation, practical activity in the laboratory
Mid Exam					
16	٢	Theoretical lecture using PowerPoint, with practical experience and presentation of educational videos	Pharmacology	**Effects of Antiepileptics**	Daily and final exams, seminar preparation, practical activity in the laboratory
17	٢	Theoretical lecture using PowerPoint, with practical experience and presentation of educational videos	Pharmacology	**Evaluation of Analgesics**	Daily and final exams, seminar preparation, practical activity in the laboratory
18	٢	Theoretical lecture using PowerPoint, with practical experience and presentation of educational videos	Pharmacology	**Evaluation of analgesics (Opioids)**	Daily and final exams, seminar preparation, practical activity in the laboratory
19	٢	Theoretical lecture using PowerPoint, with practical experience and	Pharmacology	**Evaluation of Anti-inflammatory Drugs**	Daily and final exams, seminar preparation,

		presentation of educational videos			practical activity in the laboratory
20	٢	Theoretical lecture using PowerPoint, with practical experience and presentation of educational videos	Pharmacology	**Local Anaesthesia**	Daily and final exams, seminar preparation, practical activity in the laboratory
21	٢	Theoretical lecture using PowerPoint, with practical experience and presentation of educational videos	Pharmacology	**General Anaesthesia**	Daily and final exams, seminar preparation, practical activity in the laboratory
22	٢	Theoretical lecture using PowerPoint, with practical experience and presentation of educational videos	Pharmacology	**Prescription writing (Part 1)**	Daily and final exams, seminar preparation, practical activity in the laboratory
23	٢	Theoretical lecture using PowerPoint, with practical experience and presentation of educational videos	Pharmacology	**Prescription writing (Part 2)**	Daily and final exams, seminar preparation, practical activity in the laboratory
24	٢	Theoretical lecture using PowerPoint, with practical experience and presentation of educational videos	Pharmacology	**Prescription writing (Part 3)**	Daily and final exams, seminar preparation, practical activity in the laboratory
25	٢	Theoretical lecture using PowerPoint, with practical experience and presentation of educational videos	Pharmacology	**Oral conditions and their treatment**	Daily and final exams, seminar preparation, practical activity in the laboratory
26	٢	Theoretical lecture using PowerPoint, with practical experience and presentation of educational videos	Pharmacology	**Prescription writing for some general conditions commonly encountered in clinical practice**	Daily and final exams, seminar preparation, practical activity in the laboratory

27	٢	Theoretical lecture using PowerPoint, with practical experience and presentation of educational videos	Pharmacology	**Toothpastes and mouthwashes**	Daily and final exams, seminar preparation, practical activity in the laboratory
28	٢	Theoretical lecture using PowerPoint, with practical experience and presentation of educational videos Theoretical lecture using PowerPoint, with practical experience and presentation of educational videos	Pharmacology	**Orodental preparation (part 1)**	Daily and final exams, seminar preparation, practical activity in the laboratory
29	٢	Theoretical lecture using PowerPoint, with practical experience and presentation of educational videos	Pharmacology	**Orodental preparation (Part 2)**	Daily and final exams, seminar preparation, practical activity in the laboratory
30	2	Theoretical lecture using PowerPoint, with practical experience and presentation of educational videos	Pharmacology	**Dental health and endocarditis prevention**	Daily and final exams, seminar preparation, practical activity in the laboratory
Final exam					

251. Course Evaluation

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

7% Annual quest of students work (includes daily and monthly exams and practical requirements)

20% Final practical exam

252. Learning and Teaching Resources

Required textbooks (curricular books, if any)	

Main references (sources)	1- Pharmacology (Lippincott Illustrated Reviews Series) 8th Edition (2025) 2- Contemporary Dental Pharmacology: Evidence-Based Considerations 1st ed (2019) 1- Basic & Clinical Pharmacology (sixte Edition,2025)
Recommended books and references (scientific journals, reports…)	Pharmacology and Therapeutics for Dentistry (7th edition, 2017)
Electronic References, Websites	

253. Course Name: Community Dentistry
254. Course Code: *317CU*
255. Semester / Year: 2025-2025
256. Description Preparation Date: 2/5/2025
257. Available Attendance Forms: theoretical lecture and practical
6-Number of Credit Hours (Total) / Number of Units (Total): 30 ours theoretical and 60 hours practical
7-Course administrator's name (mention all, if more than one name)
Name: Prof.Dr. Ahlam Taha Mohammed Email: dr.ahlam.taha@codental.uobaghdad.edu.iq Name: Prof. Baydaa Hussein Awn Email: baydaa.hussain@codental.uobaghdad.edu.iq Name: Prof. Nibal Mohammed Hoobi *E Email:* nibal_mohammed@codental.uobaghdad.edu.iq
8-Course Objectives

Course Objective	• It gives information to students about identifying and measur oral diseases in the community. • Controlling and preventing diseases in the community throu preventive programs**.**

9-Teaching and Learning Strategies

Strategy	1-Lectures using (data show) program . 2-educational movies. 3-LCD. 4-Smart boards . 5-Cameras . .6-Electronic class.

10-Course Structure(theory)

Week	**Hours**	**Required Learning Outcomes**	**Unit or subject name**	**Learning method**	**Evaluation method**
1	1		**Dental public health** -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.	A theoretical lecture using Power Point,	short exams, quarterly, mid year and final exams

			4-Principles of administration. 5-Preventive dentistry.		
2	1		**-Dental public care** - Steps in planning dental care for the patient - Steps in planning dental care for the community - Similarities between personal and community health care: - Differences between private dental practice and public health dentistry	A theoretical lecture using Power Point,	short exams, quarterly, mid year and final exams
3	1		**Epidemiology** - Objectives of epidemiology. - Components of epidemiological study. - Essential steps in an epidemiological study. - Hypothesis. - Population at risk. - Morbidity. - Measurements of disease frequency. **Epidemiological approach.** - Measurement tools in epidemiology.	A theoretical lecture using Power Point,	short exams, quarterly, mid year and final exams

4	1		**Epidemiological studies** Types of Epidemiological studies: 1-Observational studies Types of observational studies - Descriptive studies. -Analytical studies. Case control studies Cohort studies Ecological studies.	A theoretical lecture using Power Point,	short exams, quarterly, mid year and final exams
5	1		2-**Experimental studies** -Intervention Types of experimental studies	A theoretical lecture using Power Point,	short exams, quarterly, mid year and final exams
6	1		**Epidemiology of dental caries** - Definition of dental caries - Epidemiology -Etiological factors of dental caries -Types of dental caries according to their anatomical (location) site. - Factors affect epidemiology of den caries	A theoretical lecture using Power Point,	short exams, quarterly, mid year and final exams
7	1		**Epidemiology of Periodontal Disease** -Periodontal Diseases definition	A theoret lecture us Power Point,	short exams, quarterly, mid year and final exams

			-Structure of the periodontal tissues -Epidemiology -Etiology of periodontal disease		
8	1		**Epidemiology of Oral Cancer** - Types of cancers - Etiology of oral cancer - Constituents of tobacco smoke - Potentially malignant lesions - Levels of prevention for oral cancer - Rehabilitation after Oral Canc	A theoretical lecture using Power Point,	short exams, quarterly, mid year and final exams
9	1		**Dental indices** - Index - Uses of dental index - Classification indices	A theoretical lecture using Power Point,	short exams, quarterly, mid year and final exams
10	1		**Indices used for assessment of dental caries** -DMF index -Principles in recording DMF index - Calculation of DMFT/DMFS - Dental caries severity index - dmf index	A theoretical lecture using Power Point,	short exams, quarterly, mid year and final exams

11	1		**Indices used for assessment of periodontal disease** - Oral Hygiene Indices: - Gingival inflammation indices - Periodontal indices	A theoretical lecture using Power Point,	short exams, quarterly, mid year and final exams
12	1		**Dental fluorosis** Indices for assessment of dental fluorosis	A theoretical lecture using Power Point,	short exams, quarterly, mid-year and final exams
13	1		**Biostatistics** - Data - Types of data - Methods of Data Collection -Sampling Technique -Types of sample design	A theoretical lecture using Power Point,	short exams, quarterly, mid year and final exams
14	1		**Data presentation** - Methods of data presentation -The tabulation of data. -The graphical representation of data	A theoretical lecture using Power Point,	short exams, quarterly, mid year and final exams
15	1		**Measures of central tendency & dispersion** -Measures of central tendency **-Measures of dispersion.**	A theoretical lecture using Power Point,	short exams, quarterly, mid year and final exams
16	1		**Fluoridation as a public health measure**	A theoretical lecture using Power Point,	short exams, quarterly, mid year and final exams

			- History: - Sources of Fluoride -Water fluoridation -Types of fluori		
17	1		**Fluoridation Mechanism and Effects** Mechanism of action -Anti-caries effects of fluoride. Metabolism of fluoride.- -Dental Fluorosis -Side effects of fluoride	A theoretical lecture using Power Point,	short exams, quarterly, mid year and final exams
18	1		**Occupational hazards in dentistry** - Major occupational hazards -Biological health hazards. -Physical hazards -Chemical hazards -Musculoskeletal disorders and diseases of the peripheral nervous system -Hearing loss -Radiation exposure -Stress -Legal hazards -Other risks	A theoretical lecture using Power Point,	short exams, quarterly, mid year and final exams
19	1		**Environment and health** - Environment	A theoretical lecture using Power Point,	short exams, quarterly, mid year and final exams

			-Physical environment: -Biological environment: -Psychological environment - Environmenta indicators		
20	1		**Effects of air pollution on health** -Prevention and control of air pollution - Effects of radiation -Noise pollutio	A theoretical lecture using Power Point,	short exams, quarterly, mid year and final exams
21	1		**School Dental Health Program** - Purpose of School Health Program - Guidelines for an ideal school dental program - School dental survey - phases in school oral health program	A theoretical lecture using Power Point,	short exams, quarterly, mid year and final exams
22	1		**Treatment need and demand** - Need - categories of need - Demand - Factors affecting dental demands	A theoretical lecture using Power Point,	short exams, quarterly, mid year and final exams
23	1		- **Dental manpower** - Manpower definition	A theoretical lecture using Power Point,	short exams, quarterly, mid year and final exams

			- Dental health manpower planning -Steps in dental health manpow planning		
24	1		**Ethics in dentistry** -Definition of ethics - Dentistry as a profession - Ethical principles	A theoretical lecture using Power Point,	short exams, quarterly, mid year and final exams
25	1		**Oral health care for special populations** - Elderly people: - The main oral effects of aging - Pregnant women - Special Care Dentistry - Patients with special health care needs	A theoretical lecture using Power Point,	short exams, quarterly, mid year and final exams
26	1		**Forensic dentistry** -Introduction -Application of forensic dentistry. -Bit marks -Person identification. -Dental identification.	A theoretical lecture using Power Point,	short exams, quarterly, mid year and final exams
27	1		**Dental auxiliary personal** -Introduction. - Dental auxiliary classification. *Non operatory auxiliary. * Operatory auxiliary.	A theoretical lecture using Power Point,	short exams, quarterly, mid year and final exams

			-Four handed relationship.		
28	1		**Primary health care** - Introduction. -Elements (components) of Primary health care. -Principles of Primary health care. - Primary dental health care. -Community dental health services.	A theoretical lecture using Power Point,	short exams, quarterly, mid year and final exams
29	1		**Infection control** - Introduction. -Concept of disease transmission. -The acquisition means of pathogens. -Transmission of infectious diseases. -Control of infectious diseases. -Personal barrier techniques. -Instrument processing(steri ation).	A theoretical lecture using Power Point,	short exams, quarterly, mid year and final exams
30	1		**Dental health education** - Introduction. -Aims of health education. -Objective of health education.	A theoretical lecture using Power Point,	short exams, quarterly, mid year and final exams

			- Objective of dental health education. -Principle of health education. -Planning a hea education programs.		

Course structure (practical aspect):

Method of assessment	Method of instruction	Subject conter	Hours	weak
short exams and practi exams for clini examination	A theoretical lect using PowerPoint	Patient's and Operators positions in Dentistry	2	1
short exams and practi exams for clini examination	A theoretical lecture us PowerPoint	Patient's examination & Case sheet	2	2
short exams practical examinations clinical examination	Practical training	Basic tooth numbering	2	3
short exams practical exams clinical examination	A theoretical lect using PowerPoint	Dental caries	2	4
short exams practical examinations clinical examination	Practical training	Theories of caries formation	2	5
short exams practical exams clinical examination	A theoretical lect using PowerPoint	Indices	2	6
short exams	A theoretical lect using PowerPoint		2	7

practical exams clinical examination		Dental caries indices		
short exams practical exams clinical examination	A theoretical lect using PowerPoint	Clinical examination	2	8
short exams practical exams clinical examination	A theoretical lect using PowerPoint	Clinical examination	2	9
short exams practical examinations clinical examination	Practical training	Clinical examination	2	1
short exams practical examinations clinical examination	Practical training	Deciduous teeth	2	1
short exams practical exams clinical examination	A theoretical lect using PowerPoint	Clinical examination	2	1
short exams practical examinations clinical examination	Practical training	Clinical examination	2	1
short exams practical examinations clinical examination	Practical training	Prevention of dental caries	2	1
short exams practical exams	A theoretical lect using PowerPoint	Fluoride	2	1

clinical examination				
short exams a practical exams clinical examination	A theoretical lect using PowerPoint	Periodontal diseases	2	1
short exams a practical exams clinical examination	A theoretical lect using PowerPoint	Indices for plaque assessment	2	1
short exams a practical exams clinical examination	A theoretical lect using PowerPoint	Clinical examination	2	1
short exams a practical exams clinical examination	A theoretical lect using PowerPoint	Clinical examination	2	19
short exams a practical examinations clinical examination	Practical training	Clinical examination	2	2
short exams a practical examinations clinical examination	Practical training	Indices for calculus assessment	2	2
short exams a practical exams clinical examination	A theoretical lect using PowerPoint	Clinical examination	2	2
short exams a practical examinations clinical examination	Practical training	Clinical examination	2	2
short exams a practical examinations	Practical training		2	2

clinical examination		Gingival disease indices		
short exams & practical exams clinical examination	A theoretical lect using PowerPoint	Clinical examination	2	2
short exams & practical examinations clinical examination	Practical training	Clinical examination	2	2
short exams & practical examinations clinical examination	Practical training	Measur prevale e of d disease	2	2
short exams & practical exams clinical examination	A theoretical lect using PowerPoint	Periodontal diseases prevention	2	2
short exams & practical exams clinical examination	A theoretical lect using PowerPoint	Tooth brushing	2	2
short exams & practical exams clinical examination	Practical training	Clinic……as sistant	2	3

11-Course Evaluation

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

12-Learning and Teaching Resources

Required textbo (curricular books, any)	1. **Textbook of Preventive and Community Dentistry/ Public Health Dentistry 3rd edition** by Joseph John,2017.

	2-**Oral Epidemiology by** Marco A. Peres • Jose Leopoldo Ferreira Antunes Richard G. Watt,2021. 3-**Textbook of Public Health Dentistry,3rd Edition, 2016**.
Main referen (sources)	-Essential Dental Public Health 2nd ed by Blanad D, Paul B, Elizabith T, Richard W, 2013 -Essentials of preventive and community dentistry by Peter,2003 -Essential Dental Public Health 2nd ed by Blanad D, Paul B, Elizabith T, Richard W, 2013
Recommended books and references (scientific journals, reports...)	-International dental journal -Community dental health -British dental journal -Australian dental journal
Electronic References, Websi	

1. Course Name: Conservative Dentistry (Dentistry)

2. Course Code: 319CV

3. Semester / Year:٢٠٢٥-٢٠٢٥

4. Description Preparation Date:٢٠٢٥/٥/٢

5. Available Attendance Forms: Attendance in classrooms for theoretical subjects

6. Number of Credit Hours (Total) / Number of Units (Total): ٦٠ theoretical hours and 120 practical hours

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

Name: Rasha H.Jehad Email: rasha.h.jehad@codental.uobaghdad.edu.iq
Name: Alaa Jawad Kadhum Email: alaa.jawad@codental.uobaghdad.edu.iq

Name: Linz Ali Shaalan Email: linz.ali@codental.uobaghdad.edu.iq
Name: Samer Aun Thyab Email: samer.aun@codental.uobaghdad.edu.iq

8. Course Objectives

Course Objectives	Students are trained to make fillings and drill artificial teeth on special phantom heads to train them before starting to treat patients clinically.

9. Teaching and Learning Strategies

Strategy	• Displaying the theoretical material and explaining it in detail on the smart screen • Use the stimulus and response method • Urging students to use thinking and problem-solving skills • Creating a spirit of scientific competition among students through direct and indirect questions related to the scientific subject • Follow up on students' way of thinking, their ways of expression, and their speed of response

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	1	To formulate and programmed information in such a way as to enable students to understand it and increase knowledge regarding theoretical and practical aspects A.2-Providing important Information and treatment steps.	**Definitions:** -Introduction to Fixed Prosthodon -Types of crowns. -Purposes of crown construction. -Steps in crown construction. -Components of bridge.	A theoretical lesson using Power Point	Short, quarterly half-year and final exams
	1		Definition of operative dentistry: a-Aim of operative dentistry b- General terminology		

2	1		Definitions (continued):	A theoretical lesson using Power Point	Short, quarterl , half-year and final exams
	1		Principles of cavity preparations: a- Steps of cavity preparation b- Types of caries		
3	1		Definitions (continued):	A theoretical lesson using Power Point	Short, quarterly half-year and final exams
	1		Hand and rotary instruments and general instrumentation of cavity preparation		
4	1		Biomechanical principles of tooth preparation: *Preservation of sound tooth *Retention and resistance form. *Marginal integrity. *Structural durability.	A theoretical lesson using Power Point	Short, quarterly half-year and final exams
	1		Sterilization of operative instruments		
5	1		Biomechanical principles of tooth preparation (continued):	A theoretical lesson using Power Point	Short, quarterly half-year and final exams
	1		Amalgam cavity preparations for class 1 (buccal pit, palatal pit)		
6	1		Biomechanical principles of tooth preparation (continued:)	A theoretical lesson using Power Point	Short, quarterly half-year and final exams
	1		Amalgam cavity preparations for class 1 (lower 2nd premolar, lower 1st premolar)		
7	1		Full metal crown:Indications, contra-indications,advantages, disadvantages, steps of preparation.	A theoretical lesson using Power Point	Short, quarterly half-year and final exams
	1		Amalgam cavity preparations class 1(upper 1st molar with palatal extension)		
8	1		Full metal crown (continued):	A theoretical lesson using	Short, quarterly half-year and

	1		Amalgam cavity preparations class 1(lower 1st molar with palatal extension)	Power Point	final exams
9	1		Porcelain fused to metal crown:Indications, contra-indications,advantages, disadvantages, steps of preparation.	A theoretical lesson using Power Point	Short, quarterly half-year and final exams
	1		Amalgam cavity preparations for class II (part 1)		
10	1		Porcelain fused to metal crown (continued):	A theoretical lesson using Power Point	Short, quarterly half-year and final exams
	1		Amalgam cavity preparations for class II(part 2)		
11	1		Complete ceramic crown (Porce Jacket Crown:Indications, contra-indications,advantages, disadvantages, steps of preparation.	A theoretical lesson using Power Point	Short, quarterly half-year and final exams
	1		Amalgam cavity preparations class I1 MOD		
12	1		Complete ceramic crown (Porcelain Jacket Crown (continued):	A theoretical lesson using Power Point	Short, quarterly half-year and final exams
	1		Amalgam cavity preparations for class III		
13	1		Partial veneer crown(three-qua crown):Indications,contra-indications,advantages, disadvantages, steps of preparatio	A theoretical lesson using Power Point	Short, quarterly half-year and final exams
	1		Amalgam cavity preparations for class V		
14	1		Partial veneer crown (three-quarter crown):	A theoretical lesson using Power Point	Short, quarterly half-year and final exams
	1		Cavity liners and cement bases		
15	1		Post crown: Indications, contra-indications, factors to be considered in the assessment of a tooth for post	A theoretical lesson using Power Point	Short, quarterly half-year and final exams
	1		cement bases (Zinc phosphate cement, Zinc oxide – eugenol cements)		

16	1		Post crown (continued):	A theoretical lesson using Power Point	Short, quarterly half-year and final exams
	1		cement bases (Zinc polycarboxylate cement, Glass ionomer cement, Resin cement)		
17	1		Impression for crown and bridge work: -Objectives of taking impression. -Requirements of an acceptable impression. -Impression materials. -Impression techniques	A theoretical lesson using Power Point	Short, quarterly half-year and final exams
	1		Cavity liner (cavity varnish, Bonding, Calcium hydroxide)		
18	1		Impression for crown and bridge work (continued):	A theoretical lesson using Power Point	Short, quarterly half-year and final exams
	1		Dental amalgam alloys (material)		
19	1		Impression for crown and bridge work (continued):	A theoretical lesson using Power Point	Short, quarterly half-year and final exams
	1		Dental amalgam placement (part 1)		
20	1		Provisional restoration: Definition, objectives, types (prefabricated, custom-made, and laboratory-made)	A theoretical lesson using Power Point	Short, quarterly half-year and final exams
	1		Dental amalgam placement (part 2)		
21	1		Provisional restoration (continued):	A theoretical lesson using Power Point	Short, quarterly half-year and final exams
	1		Complex amalgam restoration		
22	1		Working cast and dies: Advantages of working cast, definition of die, types of die material, techniques of producing die	A theoretical lesson using Power Point	Short, quarterly half-year and final exams
	1		Pin retained amalgam restoration		

23	1		Working cast and dies (continued):	A theoretical lesson using Power Point	Short, quarterly half-year and final exams
	1		Failures in amalgam restorations		
24	1		Waxing.	A theoretical lesson using Power Point	Short, quarterly half-year and final exams
	1		Tooth colored restorations composite		
25	1		Investing.	A theoretical lesson using Power Point	Short, quarterly half-year and final exams
	1		Composite resin (material)		
26	1		Casting.	A theoretical lesson using Power Point	Short, quarterly half-year and final exams
	1		Principles of cavity preparation composite restoration (CL III, IV V)		
27	1		Finishing of the casting.	A theoretical lesson using Power Point	Short, quarterly half-year and final exams
	1		Composite resin placement (part 1)		
28	1		Clinical try-in	A theoretical lesson using Power Point	Short, quarterly half-year and final exams
	1		Composite resin placement (part 2)		
29	1		Cementation: Types of cements used for - cementation of crown .restoration Techniques of cementation	A theoretical lesson using Power Point	Short, quarterly half-year and final exams
	1		Failures in anterior restorations		
30	1		Cementation (continued):	A theoretical lesson using Power Point	Short, quarterly half-year and final exams
	1		Fluoride realizing materials		

Laboratory sessions Operative Dentistry

No.	Title of the session	Hours
١	Introduction to operative dentistry, and to work in phantom lab. Demonstration about the rotary instrument, and how to cut geometrical cavities (circle, triangle, and dove-tail), and leave students to work under supervision.	٢
٢	Demonstration of how to use phantom head, working positions for both student and phantom head, also demonstration cavity preparation on buccal pit of lower 1st molar and palatal pit of upper lateral incisor.	٢

٣	Demonstration of principles of amalgam cavity preparation for CL I on the occlusal surface of lower 2nd premolar on the board then do demonstration of cutting on the phantom head. Quiz about the principles of CL I amalgam cavity preparation.	٢
٤	Demonstration amalgam CL I cavity for lower 1st premolar and Leave students to work under supervision.	٢
٥	Demonstration amalgam CL I cavity for upper 1st molar (two separated cavities) on the phantom head and teaching the students how to work indirectly by using mirror. Leave students to work under supervision.	٢
٦	Demonstration amalgam cavity for the palatal extension in upper 1st molar (continue with last lab in distal occlusal cavity), and Demonstration on the hand instrument groups, and teach students to differentiate between them.	٢
٧	Practical assessment for the students in amalgam CL I cavity on lower 1st molar. Oral quiz on the hand instrument and their groups.	٢
٨	Demonstration amalgam CL II MO cavity for lower 1st premolar	٢
٩	Demonstration amalgam CL II MO cavity for upper 1st molar	٢
١٠	Practical assessment for the students in amalgam CL II MO cavity on lower 1st molar. Quiz in amalgam CL II cavity lectures.	٢
١١	Demonstration amalgam CL II MOD cavity for lower 1st molar	2
١٢	Demonstration amalgam CL II MOD cavity for upper 2nd molar	٢
١٣	Practical assessment for the students in cavity preparation of amalgam CL II MOD cavity on lower 2nd molar.	٢
١٤	Demonstration amalgam CL V cavity for lower 2nd premolar, upper 1st molar and upper 2nd premolar.	٢
١٥	Demonstration amalgam CL III cavity in distal side of upper canine.	٢
١٦	Demonstration of the liner and base placement, their indication, advantage, and uses.	٢
١٧	Supervised students in mixing and placing zinc phosphate cement in CL II DO cavity of lower 2nd premolar.	٢
١٨	Supervised students in mixing and placing zinc phosphate cement in CL II MO cavity of upper 1st molar and CL II MOD cavity of lower 2nd molar..	٢
١٩	Practical assessment for the students in zinc phosphate mixing and placement in CL II MOD cavity on lower 1st molar.	٢
٢٠	Amalgam filling of CL I cavity of lower 1st premolar	٢
٢١	Amalgam filling of CL II cavity of lower 2nd premolar.	٢
٢٢	Amalgam filling of CL II cavity of upper 1st molar.	٢
٢٣	Demonstration on provisional restoration (Part 1): Materials.	٢
٢٤	Demonstration on provisional restoration (Part 2): Techniques.	٢
٢٥	Demonstration on direct waxing for post crown construction on upper canine.	٢
٢٦	Demonstration on indirect waxing technique.	٢
٢٧	Demonstration on investing and casting.	٢
٢٨	Demonstration on cleaning and finishing of the cast restoration.	٢
٢٩	Final assessment of the practical work.	٢
٣٠	Final practical exam.	٢
Total		٦٠

laboratory sessions of Preclinical Fixed Prosthodontic

١	Introduction on the lab work, phantom heads and teeth manikins.	٢
٢	Demonstration about the rotary instrument and how to cut geometrical cavities (Part 1).	٢
٣	Demonstration about the rotary instrument and how to cut geometrical cavities (Part 2).	٢
٤	Demonstration on full metal crown preparation on lower 1st molar.	٢
٥	Demonstration on full metal crown preparation on lower 2nd molar.	٢
٦	Practicing lab under supervision.	٢
٧	Practicing lab under supervision.	٢
٨	Practical assessment of full metal crown preparation on lower 1st molar.	٢
٩	Demonstration on porcelain fused to metal crown preparation on upper central incisor.	٢
١٠	Demonstration on porcelain fused to metal crown preparation on upper lateral incisor.	٢
١١	Practicing lab under supervision.	2
١٢	Practicing lab under supervision.	٢
١٣	Practical assessment of porcelain fused to metal crown preparation on upper central incisor.	٢
١٤	Demonstration on post crown preparation on upper canine.	٢
١٥	Demonstration on post crown preparation on lower 1st premolar.	٢
١٦	Practicing lab under supervision.	٢
١٧	Practicing lab under supervision.	٢
١٨	Practical assessment of post crown preparation on upper canine.	٢
١٩	Demonstration on special tray construction.	٢
٢٠	Demonstration on impression materials used in Fixed Prosthodontics.	٢
٢١	Demonstration on impression techniques in Fixed Prosthodontics.	٢
٢٢	Demonstration on die construction using dowel pin.	٢
٢٣	Demonstration on provisional restoration (Part 1): Materials.	٢
٢٤	Demonstration on provisional restoration (Part 2): Techniques.	٢
٢٥	Demonstration on direct waxing for post crown construction on upper canine.	٢
٢٦	Demonstration on indirect waxing technique.	٢
٢٧	Demonstration on investing and casting.	٢
٢٨	Demonstration on cleaning and finishing of the cast restoration.	٢
٢٩	Final assessment of the practical work.	٢
٣٠	Final practical exam.	٢
Total		٦٠

11. Course Name:
Dental radiology

12. Course Code:
RL 320
13. Semester / Year:
2025-2025
14. Description Preparation Date:
2-5-2025
15.Available Attendance Forms:
Attendance at lecture hall
16.Number of Credit Hours (Total) / Number of Units (Total)
30 hours
17. Course administrator's name (mention all, if more than one name)
Name: Prof. Zainab Hasan Assist.Prof. Zainab Mahmood hassan Assist.Prof. Areej Ahmed Najm Email: Zainabalghurabi@codental.uobaghdad.edu.iq zainab.bahrani@codental.uobaghdad.edu.iq areejah2004@codental.uobaghdad.edu.iq
18. Course Objectives

Course Objectives	• **Give a brief knowledge about radiation physics, types of film, techniques, and interpretation of various structures and diseases in maxillofacial region** • **Enable the student to use x-ray machine correctly.** • **Explain the importance of radiation hazard and protection.** • **Enable the student to read and diagnose dental radiographs**

19. Teaching and Learning Strategies

Strategy	• Lectures • Quizzes • Mid-exam • Final- exam

20. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1+2	2	**Physics of radiation** (introduction and definitions of nature of radiation, type of radiation) **Production of radiation** (x-ray machine, interaction of x-ray with matter) composition of matter	Dental radiology	Theoretical Lectures	Quizzes, Mid and Final exams
3+4	2	**Film imaging** (types of x-ray films, processing cycle, dark room, intensifying screen **Intraoral projection** (periapical, bitewing, and occlusal radiography)	Dental radiology	Theoretical Lectures	Quizzes, Mid and Final exams
5+6	2	**Factors controlling x-ray beam** (dosimetry and invers square low) **Projection geometry** (sharpness, distortion, image characteristics and artifacts)	Dental radiology	Theoretical Lectures	Quizzes, Mid and Final exams
7+8	2	**Biological effects of radiation** (direct & indirect effects, deterministic and stochastic effect) **Safety and Protection** (source of exposure, dose limits, exposure and risk and reducing dental exposure)	Dental radiology	Theoretical Lectures	Quizzes, Mid and Final exams
9+10	2	**Radiographic anatomy part1** (teeth, supporting	Dental radiology	Theoretical Lectures	Quizzes, Mid and

		structures, maxilla and mid facial bones) **Radiographic anatomy part2** (mandible, TMJ, restorative materials)			Final exams
11+12	2	**Dental anomalies** (acquired and developmental) **Craniofacial anomalies** (Cleft lip and palate)	Dental radiology	Theoretical Lectures	Quizzes, Mid and Final exams
13	1	**Panoramic radiography** (principles, technique, position and interpretation)	Dental radiology	Theoretical Lectures	Quizzes, Mid and Final exams
14	1	**Digital radiography** (strength, limitations, comparing with conventional radiography and indications	Dental radiology	Theoretical Lectures	Quizzes, Mid and Final exams
15+16	2	**Craniofacial imaging** (types, indication and interpretation) **Cephalometric imaging** (technique, indications, evaluation of the image)	Dental radiology	Theoretical Lectures	Quizzes, Mid and Final exams
17+18	2	**Radiographical interpretations of common diseases** (interpretation of dental caries, and periodontal disease) **Inflammatory conditions of the jaws** (periapical inflammatory disease, osteomyelitis, pericoronitis)	Dental radiology	Theoretical Lectures	Quizzes, Mid and Final exams
19	1	**Cysts of the jaw** (odontogenic and nonodontogenic cysts)	Dental radiology	Theoretical Lectures	Quizzes, Mid and Final exams
20+ 21+ 22	3	**Computed tomography** (indications, strength, limitations) **CBCT** (principles, components, strength and limitations) **CBCT** (clinical applications in maxillofacial region, anatomy and interpretations)	Dental radiology	Theoretical Lectures	Quizzes, Mid and Final exams
23	1	**Patient's management** (management of child	Dental radiology	Theoretical Lectures	Quizzes, Mid and

		patient, contrast media & localization technique			Final exams
24+25	2	**Infection control** (infection control in radiography clinic, protection of pt., protection of workers) **Prescribing diagnostic imaging** (radiologic examination and guide lines for ordering imaging)	Dental radiology	Theoretical Lectures	Quizzes, Mid and Final exams
26	1	**Radiography &Implantology** (modalities, indications)	Dental radiology	Theoretical Lectures	Quizzes, Mid and Final exams
27+28	2	**Advanced imaging modalities** (CT, MRI and ultrasound) **Salivary gland disease** (imaging modalities, interpretation)	Dental radiology	Theoretical Lectures	Quizzes, Mid and Final exams
29	1	**TMJ abnormalities** (anatomy of TMJ, application)	Dental radiology	Theoretical Lectures	Quizzes, Mid and Final exams
30	1	**Trauma** (dentoalveolar trauma, dental fractures and bone fractures)	Dental radiology	Theoretical Lectures	Quizzes, Mid and Final exams

21. Course Evaluation

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

22. Learning and Teaching Resources

Required textbooks (curricular books, if any)	1. Oral radiology -Principles and interpretation (White and pharoah's 8th ed. 2. Essentials of Dental Radiograp and Radiology
Main references (sources)	Fundamentals of oral radiology.
Recommended books and references (scientific journals, reports…)	Journal: • Oral Surgery, Oral Medicine, Oral Pathology and Oral Radiology

	• Dentomaxillofacial Radiology
Electronic References, Websites	https://radiopaedia.org/

23. Course Name:
Dental radiology / practical
24. Course Code:
RL 320
25. Semester / Year:
2025-2025
26. Description Preparation Date:
2-5-2025
27.Available Attendance Forms:
Attendance at clinic
28.Number of Credit Hours (Total) / Number of Units (Total)
60 hours
29. Course administrator's name (mention all, if more than one name)
Name: Assist.Prof. Areej Ahmed Najm Lec. Resha Jameel Abdulsaheb Assist.lec. Farah Abdulsalam Hadi Email: areejah2004@codental.uobaghdad.edu.iq rasha.jameel1400@codental.uobaghdad.edu.iq farah.hadi@codental.uobaghdad.edu.iq
30. Course Objectives

Course Objectives	• **Enable the student to use x-ray machine correctly.** • **Explain the importance of radiation hazard and protection.** • **Enable the student to read and diagnose dental radiographs.** • **Educate the students about the guidelines for ordering imaging.** • **Learn the students how to manage patients with special need**

31. Teaching and Learning Strategies

Strategy	• Seminars • Quizzes • Practical work • Practical requirements • Oral assessment • Final- practical exam

32. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2	X- ray machine and production of X-ray	Dental radiology	Seminar + practical work	Seminar and requirements evaluation + Quiz
2	2	X-ray film (types and indication)	Dental radiology	Seminar + practical work	Seminar and requirements evaluation + Quiz

3	2	ıoral techniques (periapical, bite-wing and occlusal films)	Dental radiology	Seminar + practical work	Seminar and requirements evaluation + Quiz
4	2	Ideal radiographic projectio	Dental radiology	Seminar + practical work	Seminar and requirements evaluation + Quiz
5	2	Hazard and protection of radiation	Dental radiology	Seminar + practical work	Seminar and requirements evaluation + Quiz
6	2	Anatomical Land marks of maxilla	Dental radiology	Seminar + practical work	Seminar and requirements evaluation + Quiz
7	2	Anatomical Land marks of mandible	Dental radiology	Seminar + practical work	Seminar and requirements evaluation + Quiz
8	2	Dental anomalies	Dental radiology	Seminar + practical work	Seminar and requirements evaluation + Quiz
9	2	Dental panoramic radiography	Dental radiology	Seminar + 2practical work	Seminar and requirements evaluation + Quiz
10	2	Common disease (caries, PDL and inflammatory diseases)	Dental radiology	Seminar + practical work	Seminar and requirements evaluation + Quiz
11	2	Cysts (odontogenic and nonodontogenic)	Dental radiology	Seminar + practical work	Seminar and requirements evaluation + Quiz
12	2	CBCT (indication and anatomy)	Dental radiology	Seminar + practical work	Seminar and requirements evaluation + Quiz

13+14 +15		Clinical work	Dental radiology	practical	Quizzes, requirements evaluation and Final exams
16+17 18+19		Clinical work	Dental radiology	practical	Quizzes, requirements evaluation and Final exams
20+21 22+23		Clinical work	Dental radiology	practical	Quizzes, requirements evaluation and Final exams
24+25 26+27		Clinical work	Dental radiology	practical	Quizzes, requirements evaluation and Final exams
28+29		Oral assessment	Dental radiology	practical	Quizzes, requirements evaluation and Final exams
30		Final practical exam	Dental radiology	practical	Quizzes, requirements evaluation and Final exams

33. Course Evaluation

Distributing the score out of 100 according to the tasks assigned to the student such as seminars and clinical requirements, daily oral, or written exams, and assessment .... etc

34. Learning and Teaching Resources

Required textbooks (curricular books, if any)	1. Oral radiology -Principles and interpretation (White and pharoah's 8th ed.) 2. An atlas of dental radiographic anatomy (Kasle 4th ed.)
Main references (sources)	• Fundamentals of oral radiology. • Essentials of Dental Radiography and Radiology
Recommended books and references (scientific journals, reports…)	Journal: • Oral Surgery, Oral Medicine, Oral Pathology and Oral Radiology

	• Dentomaxillofacial Radiology
Electronic References, Websites	https://radiopaedia.org/

258. Course Name: General pathology
259. Course Code: 321PA
260. Semester / Year:2025–2025
261. Description Preparation Date:2–5–2025
262. Available Attendance Forms: Lecture hall
263. Number of Credit Hours 30 (Total) / Number of Units 60 (Total)
264. Course administrator's name (mention all, if more than one name)
Name: assist. prof. dr. Ban Fadhil Email: Banaldrobie@codental.uobaghdad.edu.iq Name-assist. prof, Layla Sabri laylasabri@codental.uobaghdad.edu.iq
265. Course Objectives

Course Objectives	-Training dentists capable of identifying the important causes of various general diseases and studying the diagnosis of different diseases. -How to use different dyes to identify these diseases and their causes.

	-Learning histological sectioning techniques.

266. Teaching and Learning Strategies

Strategy	- Theoretical lectures. - Scientific discussions and seminars. - Use of LCD screens. - Use of illustrative means such as X-ray films and videos. • **Assessment Methods**: • Weekly exams. • Mid-year and end-of-year exams. • Assessment of seminars prepared by the students. • Assessment of practical work. • General and transferable skills (other skills related to employability and personal development). • The instructor brings some tissue sections and stains for rare diseases that are not available within the institution. These are explained and presented to the students for the purpose of keeping up with scientific advancements in the field of general diseases. •

267. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1-2	2	Introduction to pathology Clinical pathology Molecular pathology	General pathology	Lecture + PowerPoi	Quiz, semester ex midyear exam, final exam.
3 + 4	4	Cell damage reversible cell injury Irreversible cell injury	General pathology	Lecture + PowerPoi	Quiz, semester ex midyear exam, final exam
5 + 6	4	Inflammation Acute inflammation	General pathology	Lecture + PowerPoi	Quiz, semester ex midyear exam, final exam

7 + 8	4	Chronic pathology Chemical mediators Healing and repair Healing of skin wound Healing of bone	General pathology	Lecture + PowerPoi	Quiz, semester ex midyear exam, final exam
9	2	Deposits and pigmentation External and internal pigmentation	General pathology	Lecture + PowerPoi	Quiz, semester ex midyear exam, final exam
10 + 11	4	Infection bacterial and vira selective infectious diseasesl	General pathology	Lecture + PowerPoi	Quiz, semester ex midyear exam, final exam
12-13	4	Immunopatholog y Hypersensitivity Autoimmune diseases Transplantation	General pathology	Lecture + PowerPoi	Quiz, semester ex midyear exam, final exam
14	2	Disorders of cell growth and development	General pathology	Lecture + PowerPoi	Quiz, semester ex midyear exam, final exam
15 + 16 +17	6	Neoplasia bengin and malignant tumors molecular basis of tumors	General pathology	Lecture + PowerPoi	Quiz, semester ex midyear exam, final exam
18 + 19	4	Genetics	General pathology	Lecture + PowerPoi	Quiz, semester ex midyear exam, final exam
20-21	4	Disturbances in body fluids and blood flow	General pathology	Lecture + PowerPoi	Quiz, semester ex midyear exam, final exam
22	3				
23	2				

24 + 25	4	Diseases of the cardiovascular system	General pathology	Lecture + PowerPoi	Quiz, semester ex midyear exam, final exam
26	2	Diseases of respiratory system	General pathology	Lecture + PowerPoi	Quiz, semester ex midyear exam, final exam
27	2	Diseases of respiratory system	General pathology	Lecture + PowerPoi	Quiz, semester ex midyear exam, final exam
28	2	Hematological diseases	General pathology	Lecture + PowerPoi	Quiz, semester ex midyear exam, final exam
29	2	Diseases of G.I.T	General pathology	Lecture + PowerPoi	Quiz, semester ex midyear exam, final exam
30	2	Diseases of liver, pancreas and gall bladder	General pathology	Lecture + PowerPoi	Quiz, semester ex midyear exam, final exam
		Bone diseases			
		Joints , Muscle and C.T. diseases			

268. Course Evaluation

The distribution of the grade out of 100 is based on the tasks assigned to the student, such as daily preparation, daily and oral exams, monthly and written exams, reports, etc.:
15% for the mid-year exam
25% for the annual effort (includes summer training, daily and monthly exams, and practical requirements)
20% for the final practical exam
40% for the final theoretical exam

269. Learning and Teaching Resources

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

270. Course Name: General Pathology (Practical)
271. Course Code: 321PA
272. Semester / Year: 2025-2025
273. Description Preparation Date:
274. Available Attendance Forms: Attendance in General Pathology Lab
275. Number of Credit Hours (Total) 60 hours/ Number of Units 60 (Total)
276. Course administrator's name (mention all, if more than one name)
Name: Assist Prof. Dr. Ban Fadhil Ibrahim Email: banaldrobie@codental.uobaghdad.edu.iq Name: Assist Prof. Layla Sabri Yas Email: laylasabri@codental.uobaghdad.edu.iq Name: Fatimah Jalil Ismael Email: Fatimah.j@codental.uobaghdad.edu.iq Name: Noor Sami Allawi Email: noor.s.507@codental.uobaghdad.edu.iq

277. Course Objectives

Course Objectives	• **Qualifying Dentists for Gene Diseases Diagnosis** • **How to Use Different Stains Disease Identification** • **Learning Histologi Sectioning**

278. Teaching and Learning Strategies

Strategy	• **Microscopic Slide Presentation for Diseases** • **Scientific Discussions and Seminars** • **Use of Screens (LCD)** • **Utilization of Illustrative Media such as X-ray Films and Videos** • **<u>Evaluation Methods</u>: Final Semester Exam (Theoretical and Practical) on Microscopic Slides**

279. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1+2	4	Introduction to pathology Clinical pathology Molecular pathology	General Pathology	Practical	Practical exa on microsco slides
3+4	4	Cell damage reversible cell injury Irreversible c injury	General Pathology	Practical	Practical exa on microsco slides
5+6	4	Inflammation Acute inflammation Chronic pathology	General Pathology	Practical	Practical exa on microsco slides

		Chemical mediators			
7+8	4	Healing and repair Healing of skin wound Healing of bone	General Pathology	Practical	Practical exa on microsco slides
9	2	Deposits and pigmentation External and internal pigmentation	General Pathology	Practical	Practical exa on microsco slides
10+11	4	Infection bacter and vira select infectious diseasesl	General Pathology	Practical	Practical exa on microsco slides
12+13	4	Immunopathology Hypersensitivity Autoimmune diseases Transplantation	General Pathology	Practical	Practical exa on microsco slides
14	2	Disorders of growth a development	General Pathology	Practical	Practical exa on microsco slides
15+16+1	6	Neoplasia bengin and malignant tumors molecular basis tumors	General Pathology	Practical	Practical exa on microsco slides
18+19	4	Genetics	General Pathology	Practical	Practical exa on microsco slides
20+21	4	Disturbances body fluids a blood flow	General Pathology	Practical	Practical exa on microsco slides
22	2	Diseases of t cardiovascular system	General Pathology	Practical	Practical exa on microsco slides

23	2	Diseases respiratory system	General Pathology	Practical	Practical exa on microsco slides
24+25	4	Diseases respiratory system	General Pathology	Practical	Practical exa on microsco slides
26	2	Hematological diseases	General Pathology	Practical	Practical exa on microsco slides
27	2	Diseases of G.I.	General Pathology	Practical	Practical exa on microsco slides
28	2	Diseases of liv pancreas and g bladder	General Pathology	Practical	Practical exa on microsco slides
29	2	Bone diseases	General Pathology	Practical	Practical exa on microsco slides
30	2	Joints , Muscle and C diseases	General Pathology	Practical	Practical exa on microsco slides

280. Course Evaluation

Distribution of grades out of 100 based on the tasks assigned to the student, such as daily preparation, daily and oral exams, monthly and written exams, reports, etc.1
15% Midterm
25% Annual Effort: Includes summer training (with a bonus of two points) and daily and monthly exams (15 points) and practical requirements (10 points)2
25% Final Practical Exam
35% Final Theoretical Exam

281. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Robbins basic pathology. Kum Abbas and Aster. 10th editi 2018, Elsevier
Main references (sources)	

Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	Codental.uobaghdad.edu.iq

282. Course Name: Prosthodontics
283. Course Code:
284. Semester / Year: 2025-2025
285. Description Preparation Date: 2/5/2025
286. Available Attendance Forms: Attendance in the classroom for the theoretical subject
287. Number of Credit Hours (Total) / Number of Units (Total): 30 hours/60 credits
288. Course administrator's name (mention all, if more than one name)
Name: **Pro. Faiza Mohammed Hussain Abdul-Ameer** Email: dr.fmha@codental.uobaghdad.edu.iq Name: **Assistant Pro. Bayan S. Khalaf** Email: bayan.s.khalaf@codental.uobaghdad.edu.iq Name: **Assistant Pro. Shorouq majid abass** Email: shorouq.m.abass@codental.uobaghdad.edu.iq Name: **Lec. Dr. Ali Nima Ahmed Hussain** Email: ali.ahmed@codental.uobaghdad.edu.iq
289. Course Objectives

Course Objectives	• Explaining the laboratory steps manufacturing partial dentures. • Clarifying the relationship of laborat steps to clinical steps. • An explanation of the types of desi used for partial dentures and the type materials used to make them.

290. Teaching and Learning Strategies

Strategy	• Theoretical explanation. • Practical laboratory application on dental casts. • Illustrative videos.

291. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	1	Partial dentures • Removable partial denture (RPD) • Objectives for RPD construction • Causes of teeth loss • Indications of removable partial dentures • Fixed partial denture • Indications for fixed partial denture • Dental implant therapy • Contraindications for dental implant therapy • Terminology and re- finishing	Introduction to Removable Partial Dentures	PowerPoint presentation	Quiz
2	1	•Need for classification.	Classification of Partially	PowerPoint presentation	Quiz

		Requirements of an acceptable method of classification • Removable partial dentures may be classified according to the type of support • Removable partial dentures may be classified according to the type of material • Removable partial dentures may be classified according to the type of treatment • Classification based on arch configuration • Kennedy – Applegate – Fiset classification system. • Applegate's rules governing the application of the Kennedy classification method	Edentulous Arches		
3	1	The ideal requirements for successful removable partial denture • Purposes (Objective) of Surveying the Diagnostic Cast • Advantages of single path of placement (insertion) • Guiding planes • Dental surveyor • Types of dental surveyors	Surveying	PowerPoint presentation	Quiz

		• Parts of dental surveyor (Ney type surveyor)			
4	1	• Principles of surveying • Types of undercuts established by surveying • Factors that determine and affect the path of placement (insertion) and removal of the RPD • Rules of surveying	Surveying (continue)	PowerPoint presentation	Quiz
5	1	• Main components of RPD • Major connectors • Requirements of major connectors • Guidelines for design and location of major connectors • Characteristics of major connectors	Component Parts of a Removable Partial Denture	PowerPoint presentation	Quiz
6	1	• Special Structural Requirements for Maxillary Major Connectors • Types of Maxillary Major Connector • Single palatal bar • Single palatal strap • Anterior-posterior palatal bars • Combination anterior and posterior palatal strap– type connector • Palatal plate-type connector	Maxillary Major Connectors	PowerPoint presentation	Quiz

		• U-shaped palatal connector			
7	1	• Special structural requirements • Types of mandibular major connectors ✓ Lingual bar ➢ Methods that may be used to determine the relative height of the floor of the mouth ✓ Lingual plate (linguoplate) ➢ The indications for the use of linguoplate ✓ Double lingual bar (lingual bar with cingulum bar) ➢ Indications for use of double lingual bar ✓ Labial bar ➢ Indications for use of labial bar ➢ Characteristics and location	Mandibular Major Connectors	PowerPoint presentation	Quiz
8	1	• Definition • Functions • Form & location • Basic types of minor connectors • Tissue stops • Finishing lines • Reaction of Tissue Metallic Coverage	Minor Connectors	PowerPoint presentation	Quiz
9	1	• The purposes of the rest in general • Occlusal Rest • Extended Occlusal Rest • Interproximal Occlusal Rest • Internal Occlusal Rests • Occlusal Rest Seat Preparation	Rests and Rest Seats	PowerPoint presentation	Quiz

		• Occlusal Rests on Amalgam Restorations • Occlusal Rest on Crowns • Lingual Rests (Cingulum Rest) • Incisal Rests and Rest Seats • Implants as a Rest			
10	1	• Direct retainers • Indirect retainers • The extra coronal retainer (Clasp type) • Component parts, Function, and position of clasp assembly parts • Factors affecting the magnitude of retention • The basic principle of clasp design	Retention and Removable Partial Denture Retainers	PowerPoint presentation	Quiz
11	1	• Clasps designed without movement accommodation. • Circumferential (Circle or Akers) clasp • Ring-type clasp • Embrasure (double Akers) clasp • Back action clasp • Multiple clasps • Half-and-half Clasp • Reverse-action clasp (Hairpin) • Disadvantages of circumferential clasps in summary • Clasps designed to accommodate distal extension functional movement • RPI clasp	Extra Coronal Direct Retainers (Types of clasp assemblies)	PowerPoint presentation	Quiz

		• Bar-type clasp assembly • RPA clasp; Akers clasp • Infra-bulge clasp • Combination clasp			
12	1	• Internal attachments • Precision Attachments ✓ Some indications for precision attachments ✓ Some of the contraindications for precision attachments ✓ The main types of precision attachments • Selection of an Attachment for a Removable Partial Denture	Intracoronal Direct Retainers (Internal Attachments, Precision Attachments	PowerPoint presentation	Quiz
13	1	• Stress breakers ✓ Types of stres breakers	Stress-Breakers (Stress Equalizers)	PowerPoint presentation	Quiz
14	1	• The main factors influencing the effectiveness of an indirect retainer • The auxiliary functions of indirect retainers • Forms of Indirect Retainers	Indirect Retainers	PowerPoint presentation	Quiz
15	1	• Auxiliary occlusal rest • Lingual rest • Incisal rest • Canine extensions from occlusal rests • Cingulum bars (continuous bars) and linguo-plates • Modification areas	Indirect Retainers (continue)	PowerPoint presentation	Quiz

		• Rugae support			
16	1	• Blockout and relief • Cast preparation • Types of blockout of master cast ✓ Parallel blockout ✓ Shaped blockout ✓ Arbitrary blockout • Relieving the master cast • Purpose of relief • Sites • Tissue Stops	Laboratory procedures in RPD construction: Blockout and Relief	PowerPoint presentation	Quiz
17	1	• Duplicating a stone cast • Duplicating material and flask • Impression • Refractory cast	Laboratory procedures in RPD construction: Duplication and Refractory Cast Construction	PowerPoint presentation	Quiz
18	1	• Waxing the framework • Spruing • General rules for spruing • Investing the sprued pattern • Purpose of investment • Burnout	Laboratory procedures in RPD construction: Wax Pattern	PowerPoint presentation	Quiz
19	1	• Casting • Casting recovery • Finishing the framework • Sprue removal	Laboratory procedures in RPD construction: Casting and Finishing	PowerPoint presentation	Quiz
20	1	• The primary function of denture base • Types of denture base according to support • Types of the denture base	Denture Base in RPD	PowerPoint presentation	Quiz

		according to materials • Advantages of metal denture base • Disadvantages of metal denture base • Design consideration of denture base • Periodontal consideration of denture base design • Types of artificial teeth			
21	1	• Record bases • Types of record bases according to materials constructed from it • Occlusion rims • Occlusion rims for static jaw relation records • Occlusion rims for recording functional or dynamic jaw relationship record • Mounting casts o the articulator • Arrangement of artificial teeth to the opposing cast • Principles that should be taken during arrangement of artificial teeth • Laboratory proced of arrangement teeth (Example)	Record Bases, Occlusion Rims, Mounting and Arrangement of Teeth	PowerPoint presentation	Quiz
22	1	• Biomechanical considerations • Possible movements of partial dentures • Tooth-tissue–supported prosthesis	Biomechanics of Removable Partial Dentures	PowerPoint presentation	Quiz

23	1	• Tooth-supported partial denture • Occlusal Rest Seat Preparation and Denture Movement • Impact of Implants Movements of Partia Dentures	Biomechanics of Removable Partial Dentures (continue)	PowerPoint presentation	Quiz
24	1	• Difference in Prosthesis Support and Influence on Design • Differentiation Between Two Main Types of Removable Partial Dentures	Principles of Removable Partial Denture Design	PowerPoint presentation	Quiz
25	1	• Components of Partial Denture Design • Implant Considerations in Design	Principles of Removable Partial Denture Design (continue)	PowerPoint presentation	Quiz
26	1	• 1st Phase: Education of patient • 2nd Phase: Diagnosis, Treatment Planning, Design, Treatment Sequencing, and Mouth Preparation • 3rd Phase: Support for Distal Extension Denture Bases • 4th Phase: Establishment and Verification of Occlusal Relations and Tooth Arrangements • 5th Phase: Initial Placement Procedures • 6th phase: Periodic Recall	Clinical Phases of Removable Partial Denture Construction.	PowerPoint presentation	Quiz

27	1	• Acrylic removable partial dentures • Appearance • Maintenance of space • Reestablishment of occlusal relationships • Conditioning of teeth and residual ridges • Interim restoration during treatment • Conditioning the patient for wearing a prosthesis • Clinical procedure placement	Acrylic Removable Partial Dentures	PowerPoint presentation	Quiz
28	1	• Flexible removable partial dentures • Type of material used for the flexible denture • Support • Retention	Flexible Removable Partial Dentures	PowerPoint presentation	Quiz
29	1	• Broken clasp arms • Several reasons for breakage of clasp arms • Fractured occlusal rests • Distortion or breakage of other components – major and minor connectors • Addition of a new artificial tooth to a RPD • Repair by soldering	Repairs and Additions to Removable Partial Dentures	PowerPoint presentation	Quiz
30	1	• Components of CAD/CAM system • Types of Digital Scanner	Digitally Designed & Fabrication Process of RPD Framework	PowerPoint presentation	Quiz

		• Digital RPD Framework Design (step by step) • Digital Fabrication Process	Using CAD/CAM System		

292. Course Evaluation

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

- A quiz test for every three or four lectures.
- Midyear exam.
- Final exam.

293. Learning and Teaching Resources

Required textbooks (curricular books, if any)	• Carr, A.B., Brown, D.T. (2011) McCracken's Removable Partial Prosthodontics. 12th ed. St. Louis, Missouri: Mosby, Inc., Elsevier Inc. • Phoenix, R.D., Cagna, D.R., Defreest, C.F. (2008) Stewart's Clinical Removable Partial Prosthodontics. Phoenix, 4th ed. Quintessence Publishing Co, Inc.
Main references (sources)	• Zoidis P, Papathanasiou I, Polyzois G. (2016) The Use of a Modified Poly-Ether-Ether-Ketone (PEEK) as an Alternative Framework Material for Removable Dental Prostheses. A Clinical Report. J Prosthodont. Oct;25(7):580-584. • Robert, W. L. (201^) Removable Partial Denture Manual. Dalhousie University.
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	

1. Course Name: Laboratory prosthodontics for the third year

2. Course Code:

3. Semester / Year:2025-2025

4. Description Preparation Date:2/5/2025

5. Available Attendance Forms: attending laboratory prosthodontics for the third year

6. Number of Credit Hours (Total) / Number of Units (Total): ٦٠ units / ٦٠Hours.

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

Name: Ghassak Husham Jani
Email: dr.ghasak@codental.uobaghdad.edu.iq
Name: Ali Nima Ahmed
Email: ali.ahmed@codental.uobaghdad.edu.iq
Name: Mustafa Mahdi Jassim
Email: **mostafammjmmjmmj@yahoo.com**
Name: Rola Waleed Abdul-Razzak
Email: rola.waleed@codental.uobaghdad.edu.iq

8. Course Objectives

Course Objectives	**Teaching third-stage students how to perform laboratory procedures and some clinical steps making a partial metal denture.** **Teaching third-stage students and training them on how to draw and design a partial metal dentu** **Teaching third-stage students and training them on how to draw and design a partial denture r from acrylic material.** **Teaching third-stage students and training them on how to draw and design a flexible partial den**

9. Teaching and Learning Strategies

Strategy	Understanding the fundamental principles of the science of prosthetic dentis Consolidating the concepts of removable dental prostheses. Preparing a generation of dentists capable of providing the best health educational services to the community.

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
١	2		Introduction to Removable Partial Dentures	practic	Daily, monthly, mid-year, and final exams
٢	2		Kennedy Classification		Daily, monthly, mid-year, and final exams
٣	2		Cast Trimming		Daily, monthly, mid-year, and final exams
٤	2		Surveying		Daily, monthly, mid-year, and final exams
٥	2		Surveying		Daily, monthly, mid-year, and final exams
٦	2		Wire Bending		Daily, monthly, mid-year, and final exams
٧	2		Wire Bending		Daily, monthly, mid-year, and final exams

٨	2		Acrylic Removable Partial Denture Design		Daily, monthly, mid-year, and final exams
٩	2		Acrylic Removable Partial Denture Laboratory Procedures		Daily, monthly, mid-year, and final exams
١٠	2		Acrylic Removable Partial Denture Laboratory Procedures		Daily, monthly, mid-year, and final exams
١١	2		Flexible Partial Denture Design		Daily, monthly, mid-year, and final exams
١٢	2		Flexible Partial Denture Laboratory Procedures		Daily, monthly, mid-year, and final exams
١٣	2		Flexible Partial Denture Laboratory Procedures		Daily, monthly, mid-year, and final exams
١٤	2		Flexible Partial Denture Laboratory Procedures		Daily, monthly, mid-year, and final exams
١٥	2		Principles of 2D Design for the Removable Partial Denture s		Daily, monthly, mid-year, and final exams
١٦	2		Principles of 2D Design for the Removable Partial Denture s		Daily, monthly, mid-year, and final exams

١٧	2		Principles of Drawing 2D Design for the Removable Partial Dentures		Daily, monthly, mid-year, and final exams
١٨	2		2D Design for Mandibular & Maxillary Arches		Daily, monthly, mid-year, and final exams
١٩	2		2D Design for Mandibular & Maxillary Arches		Daily, monthly, mid-year, and final exams
٢٠	2		2D Design for Mandibular & Maxillary Arches		Daily, monthly, mid-year, and final exams
٢١	2		Drawing Removable Partial Denture 3D Design & CAD/CAM		Daily, monthly, mid-year, and final exams
٢٢	2		Drawing Removable Partial Denture 3D Design & CAD/CAM		Daily, monthly, mid-year, and final exams
٢٣	2		Types of Rests		Daily, monthly, mid-year, and final exams
٢٤	2		Rest Seat Preparation		Daily, monthly, mid-year, and final exams
٢٥	2		Block Out and Relief		Daily, monthly, mid-year, and final exams
٢٦	2		Block Out and Relief		Daily, monthly, mid-year, and final exams

٢٧	2		Duplication Of the Master Cast		Daily, monthly, mid-year, and final exams
٢٨	2		Wax Pattern for the Removable Partial Denture Framework		Daily, monthly, mid-year, and final exams
٢٩	2		Wax Pattern for the Removable Partial Denture Framework		Daily, monthly, mid-year, and final exams
٣٠	2		Framework Fabrication		Daily, monthly, mid-year, and final exam

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

12. Learning and Teaching Resources	
Required textbooks (curricular books any)	
Main references (sources)	
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	

294. Course Name: orthodontics for 4th grade
295. Course Code: 426 OD

296. Semester / Year: 2025-2025

297. Description Preparation Date:٢٠٢٥/٥/٢

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

299. Number of Credit Hours (Total) / Number of Units (Total) :30 hours/60 credits

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

Name: Prof. Reem Atta Rafeeq
Email: reemortho@codental.uobaghdad.edu.iq

301. Course Objectives

Course Objectives	**Preparing the student at a high level of science regarding orthodontics and identifying the types of pathological conditions and malocclusions, the causes that lead to them, and the types of orthodontic devices.** **• Skills objectives of the course:** **1. Diagnosing cases of malocclusion** **2. Knowing the types of orthodontic devices related to each case.** **• Emotional and value goals** **• Solve problems related to malocclusion using removable orthodontic devices**

٣٠٢. Teaching and Learning Strategies

Strategy	• Lectures using Power Point (data show) • Training in lab for construction of removable orthodontic appliance

303. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
١	١		**Introduction** Definition of orthodontics Definition of occlusion, normal occlusion, ideal occlusion and malocclusion Six keys of normal occlusion		
٢	١		**Aims of orthodontic treatment** Orthodontic definitions (overjet, overbite, crossbite, spacing, crowding, midline deviation, rotation, displacement, proclination, retroclination, protrusion, retrusion, imbrication, overlap, impaction) – including types		
٣	١		Classification of malocclusion a. Angle's classification including divis and subdivisions		
4	١		b. molar, canine, incisor classifications c. classification of deciduous and mixe dentitions		
5	١		Definitions of growth, development and maturity Stages of development (ovum till birth) Theories of bone growth (cartiligeneous, sutural, endosteal-periosteal, matrix theories)		
٦	١		Definitions of growth site, growth center, displacement, and drift		

			Growth curve and maximum growth spurt		
٧	١		- Growth and development of hard tissues (cranial base, cranial vault, nasomaxillary complex, mandible) including prenatal and postnatal - Growth and development of soft tissues (lip, nose, cheek and tongue) including prenatal and postnatal		
٨	١		Developmental anomalies Jaw rotation and adaptation		
٩	١		**Deciduous and permanent dentition** Stages of tooth development: Formation, calcification and root completion		
١٠	١		Tooth eruption (stages and theories) Sequences and timing of eruption		
١١	١		**Development of occlusion** a. new born oral cavity (relationship of gum pads, neonatal jaw relationships, natal and neonatal teeth) b. Deciduous dentition stage - Dental changes till 6 years of age (jaw relationship, attrition, primary spaces		
١٢	١		c-Early mixed dentition stage - eruption of first molars and incisors (occlusal relationships of primary and permanent molars, early mesial shift, ugly duckling stage, secondary spaces)		

			d. Late mixed dentition stage - eruption of canines and premolars (Leeway space and late mesial shift) e.Permanent dentition - eruption second and third molars (mesial migration)		
١٣	١		**<u>Etiology of malocclusion:</u>** Genetic factors and inherited factors Classification of etiological factors a. General factors i. Skeletal (dental base and cranial base, variation of position and size of the jaws)		
١٤	١		ii- Soft tissue (muscles of face and mastication, muscles of lip and tongue, relation to skeletal factors, abnormalities of oro-facial musculature, interference with soft tissue function) iii. Tooth size and arch length relationship (Crowding and spacing) including types		
١٥	١		b. Local factor i-Extra-teeth (supernumerary) and missing teeth (hypodontia) ii. Anomalies of tooth size and shape		
١٦	١		iii- Early loss of deciduous teeth		

			iv. Retained deciduous teeth, delayed eruption of permanent teeth, impacted teeth, ankylosis		
١٧	١		Abnormal eruptive behavior (displacement, transposition) vi. Large frenum (labial and lingual), periodontal diseases		
١٨	١		vii. Oral habit viii. Dental caries, improper dental restoration		
١٩	١		**Tooth movement** a. Tissue changes associated with tooth movement: i. Histology of periodontium ii. Theories of tooth movement (pressure tension theory, blood flow theory, and piezoelectric theory)		
٢٠	١		b. Biomechanics i. Force (application, type, magnitude, duration and direction) ii. Center of resistance and rotation, moment of force and moment of couple.		
٢١	١		iii. Types of tooth movement iv. Rate of tooth movement and factors affecting it		
٢٢	١		**Orthodontic appliances** a. Overview:		

			i. passive orthodontic appliances (habit breaker, retainer and space maintainer) ii. active orthodontic appliances (removable, fixed, orthopedic and myofunctional, and combination)		
٢٣	١		b. Removable Orthodontic Appliance: i. Properties of various components (SS wire, acrylic) ii. Components: 1) active components (springs, screws and elastics)		
٢٤	١		2) retentive components (clasps) 3) acrylic base plate and bite planes 4) anchorage		
٢٥	١		iii. Design of a removable orthodontic appliance iv. Construction of a removable orthodontic appliance		
٢٦	١		V.Soldering and welding vi. Post-insertion instructions and guidelines		
٢٧	١		c. Fixed orthodontic appliance: Types,components,advantages, limitation, biomechanics, banding vs. bonding		
٢٨	١		Use of extra-oral anchorage, temporary anchorage devices (TADs), and lingual fixed appliance		
٢٩	١		d. Orthopedic and Myofunctional appliance:		

			- Types, components, advantages, limitation, mode of action e. Other active appliances: combination appliances, Invisalign		
٣٠	١		f. Retention and retainers - Retention (definition, reason, time) Retainers (Hawley, clear overlay, positioners, permanent fixation, precision)		

304. Course Evaluation

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

305. Learning and Teaching Resources

Required textbooks (curricular books, if any)	
Main references (sources)	• Orthodontics; current principles and technique -Introduction to orthodontic • -Contemporary Orthodontics,William R. Proffit Sixth edition -Textbook of Orthodontics Singh 2007
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	

1. Course Name: Pediatric Dentistry

2. Course Code: *423PD*

3. Semester / Year: 2025-2025

4. Description Preparation Date: 2.5.2025

5. Available Attendance Forms: attendance of the theoretical lectures

6. Number of Credit Hours (Total) / Number of Units (Total) 30 h / 60 units

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

Name: Prof. Zainab Juma Jafar
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8. Course Objectives

Course Objectives	Understand and assimilate theoretical methods for treating all cases of infection of children's teeth and learn about scientific methods and methods supported by means of explanation to know how to determine primary and permanent teeth and the problems related to them.

9. Teaching and Learning Strategies

Strategy	- Delivering theoretical lectures using LDC data show, - Show education movies - Use of electronic classes

10. Course Structure					
Week	**Hours**	**Required Learning Outcomes**	**Unit or subject name**	**Learning method**	**Evaluation method**
1	1	Theoretical knowledge	Eruption of teeth , nor eruption process	theory	Daily quizzes, and 2nd. Ter exams, midyear a final exams
2	1	Theoretical knowledge	Teething and difficult erupt	theory	Daily quizzes, and 2nd. Ter exams, midyear a final exams
3	1	Theoretical knowledge	Eruption haematoma sequestrum ,ectopic erupti	theory	Daily quizzes, and 2nd. Ter exams, midyear a final exams
4	1	Theoretical knowledge	Epstein pearls, Bohn nodu Dental lamina cysts, Shedc of the primary tee Mechanism of resorption a shedding, Factors cau differences in time of erupt	theory	Daily quizzes, and 2nd. Ter exams, midyear a final exams
5	1	Theoretical knowledge	Systemic (disease) Factors which cause late eruption Deciduous Dentition Peri Ugly Duckling Stage	theory	Daily quizzes, and 2nd. Ter exams, midyear a final exams
6	1	Theoretical knowledge	Morphology of the prim teeth	theory	Daily quizzes, and 2nd. Ter exams, midyear a final exams
7	1	Theoretical knowledge	Normal morphology of primary teeth and their clin consideration	theory	Daily quizzes, and 2nd. Ter exams, midyear a final exams
8	1	Theoretical knowledge	Morphological differences between primary and permanent teeth	theory	Daily quizzes, and 2nd. Ter exams, midyear a final exams

9	1	Theoretical knowledge	Functions of primary teeth	theory	Daily quizzes, and 2nd. Ter exams, midyear a final exams
10	1	Theoretical knowledge	Dental caries; Definition Classification	theory	Daily quizzes, and 2nd. Ter exams, midyear a final exams
11	1	Theoretical knowledge	Rampant dental caries, E childhood caries,	theory	Daily quizzes, and 2nd. Ter exams, midyear a final exams
12	1	Theoretical knowledge	Restorative dentistry children Isolation maintenance of dry field application of the rub Dam	theory	Daily quizzes, and 2nd. Ter exams, midyear a final exams
13	1	Theoretical knowledge	Morphological considerat ,cavity preparation Ca preparation on prim teeth,	theory	Daily quizzes, and 2nd. Ter exams, midyear a final exams
14	1	Theoretical knowledge	Restorative materials u on pediatric dentistry	theory	Daily quizzes, and 2nd. Ter exams, midyear a final exams
15	1	Theoretical knowledge	Matrices & retainers	theory	Daily quizzes, and 2nd. Ter exams, midyear a final exams
16	1	Theoretical knowledge	Stainless steel crowns, ART	theory	Daily quizzes, and 2nd. Ter exams, midyear a final exams
17	1	Theoretical knowledge	Treatment of deep caries	theory	Daily quizzes, and 2nd. Ter exams, midyear a final exams
18	1	Theoretical knowledge	Indirect pulp treatment	theory	Daily quizzes, and 2nd. Ter exams, midyear a final exams

19	1	Theoretical knowledge	Vital pulp therapy pulpotomy	theory	Daily quizzes, and 2nd. Ter exams, midyear a final exams
20	1	Theoretical knowledge	Non vital pulp ther technique	theory	Daily quizzes, and 2nd. Ter exams, midyear a final exams
21	1	Theoretical knowledge	Reaction of pulp to vari capping material	theory	Daily quizzes, and 2nd. Ter exams, midyear a final exams
22	1	Theoretical knowledge	Local anesthesia and p control for children	theory	Daily quizzes, and 2nd. Ter exams, midyear a final exams
23	1	Theoretical knowledge	Anesthetizing mandibu and maxillary teeth and s tissue	theory	Daily quizzes, and 2nd. Ter exams, midyear a final exams
24	1	Theoretical knowledge	complications after a lo anesthetic	theory	Daily quizzes, and 2nd. Ter exams, midyear a final exams
25	1	Theoretical knowledge	supplemental inject techniques	theory	Daily quizzes, and 2nd. Ter exams, midyear a final exams
26	1	Theoretical knowledge	Oral surgery for childr indication a contraindications extraction of primary teet	theory	Daily quizzes, and 2nd. Ter exams, midyear a final exams
27	1	Theoretical knowledge	technique for extraction primary teeth	theory	Daily quizzes, and 2nd. Ter exams, midyear a final exams
28	1	Theoretical knowledge	extraction complications	theory	Daily quizzes, and 2nd. Ter exams, midyear a final exams

29	1	Theoretical knowledge	postoperative extract complications, radiograp survey of teeth extracted	theory	Daily quizzes, and 2nd. Ter exams, midyear a final exams
30	1	Theoretical knowledge	Infections manifestation a management	theory	Daily quizzes, and 2nd. Ter exams, midyear a final exams

11. Course Evaluation

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

12. Learning and Teaching Resources

Required textbooks (curricular boc if any)	**Pediatric Dentistry Damle 3rd ed. 2009** **Text book of pediatric dentistry** **Nikhil Marwa 2nd ed. 2009 New Delh** **Hand book of pediatric dentistry (Cameron) mosby Elsevier/4th edition/2013** **Pediatric Dentistry A clinical approach/ Göran Koch, Sven Poulsen/ Wiley Blackwell Publishing Ltd/ 2nd ed./ 2009** **Principles and practice of pedodontics /Arathi Rao Jaypee/second edition2008** **Paediatric Dentistry/ Richard Welbury/ Fourth edition Oxford University Press, 2012** **Essentials of pediatric dentistry/ Kanchan Harikishan Asnani/ JAYPEE BROTHERS MEDICAL PUBLISHERS/1st ed. 2010** **Pediatric Dentistry Infancy through Adolescence/ 5th ed. / Paul S. Casamassimo et al./ Elsevier/ 2013** **Pediatric Restorative Dentistry/ Soraya Coelho Leal, Eliana Mitsue Takeshita/ Springer/ Springer**

	International Publishing AG, part of Springer Nature 2019 **Pedodontics Practice and Management/ Badrinatheswar GV/ Jaypee Brothers Medical Publishers/ 1st ed./ 2010** **Restorative Techniques in Paediatric Dentistry/ Dug et al./ 2nd ed./ Martin Dunitz /2002**
Main references (sources)	**McDONALD AND AVERY'S DENTISTRY for CHILD a ADOLESCENT 2016 by Elsevier**
Recommended books and references (scientific journals, reports…)	**Additional requirements such as Community-based facilities** **(include for example, guest** **Lectures , internship , field studies)** **-Trying to spread awareness among school students through field visits and lecturing educational** **-summer training**
Electronic References, Websites	www.ajodo.org, PubMed

1. Course Name: periodontology (theoretical)
2. Course Code: PER06401
3. Semester / Year: 2025-2025
4. Description Preparation Date: ٢/٥/ 2025
5. Available Attendance Forms: Weekly in lecture, and clinical work
6. Number of Credit Hours (Total) 30 h theoretical / 90 h practical

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

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8. Course Objectives

Course Objectives	Course Main Objective The main objective of the branch is to increase knowledge of oral and dental health among citizens and the treatment of patients suffering from gum diseases by preparing a group of students who will play this role after their graduation and service in health centers .spread throughout Iraq

9. Teaching and Learning Strategies

Strategy	Teaching aspect: by giving scientific lectures The therapeutic and preventive aspect: where the branch currently covers the - treatment and follow-up of all pathological cases of gum disease and around the .teeth referred to the college, in addition to the preventive aspect of this subject :

10. Course Structure

Theoretical Part

Week	Hours	Required Learning Outcome	Unit or Object Name	Learning Method	Evaluation Method
1	1	Knowledge of the scientific periodontal terms	Terms & definitions frequently used in periodontology	A theoretical lecture using PowerPoint	Quizzes, practical exams, mid-term exams, and final exams.

2	1	Parts of the periodontium gingiva	Anatomy of the periodontium	A theoretical lecture using PowerPoint	Quizzes, practical exams, mid-term exams, and final exams.
3	1	Knowledge of the second soft tissue part	Anatomy of the periodontium - Periodontal ligaments (PDL) ○	A theoretical lecture using PowerPoint	Quizzes, practical exams, mid-term exams, and final exams.
4 5.	1 1	Knowledge of the hard Tissue parts	Anatomy of the periodontium - Cementum Alveolar Bone	A theoretical lecture using PowerPoint	Quizzes, practical exams, mid-term exams, and final exams.
6	1	Interpretation of the new classification System	Classification of periodontal diseases and conditions (2017) Gingival disease	A theoretical lecture using PowerPoint	Quizzes, practical exams, mid-term exams, and final exams.
7	1	New classification of periodontitis	Classification of periodontal diseases and conditions (2017) - Periodontitis	A theoretical lecture using PowerPoint	Quizzes, practical exams, mid-term exams, and final exams.
8 9	1	Main etiologic Dental plaque formation and microbiology	Etiology of periodontal disease Etiology of periodontal disease and risk factors Dental plaque biofilm and periodontal microbiology -	A theoretical lecture using PowerPoint	Quizzes, practical exams, mid-term exams, and final exams.
10	1	Old and new Theory Of plaque hypothesis Information about the keystone pathogen	Microbiologic specificity of periodontal diseases - Traditional nonspecific plaque hypothesis	A theoretical lecture using PowerPoint	Quizzes, practical exams, mid-term exams, and final exams.

			- Specific plaque hypothesis - Updated nonspecific plaque hypothesis - Ecologic plaque hypothesis - Keystone Pathogen Hypothesis		
11	1	Interpretation of periodontal disease process formation And progression	Periodontal disease pathogenesis ○ *Mechanisms of pathogenicity*	A theoretical lecture using PowerPoint	Quizzes, practical exams, mid-term exams, and final exams.
12	1	Mineralization of dental plaque and formation of calculus with their theory	Dental calculus	A theoretical lecture using PowerPoint	Quizzes, practical exams, mid-term exams, and final exams.
13	1	Explain different types Of stain	Dental stain	A theoretical lecture using PowerPoint	Quizzes, practical exams, mid-term exams, and final exams.
14	1	Multiple risk factors that affect the periodontal health	Etiology of periodontal disease - Risk factors for periodontal diseases: ○ *Definitions of risk factors*	A theoretical lecture using PowerPoint	Quizzes, practical exams, mid-term exams, and final exams.
15	1	Effect and the association of periodontal diseases on systemic health	Impact of periodontal infection on systemic health - Focal infection theory revisited - Subgingival environment as a reservoir for bacteria)	A theoretical lecture using PowerPoint	Quizzes, practical exams, mid-term exams, and final exams.
16	1	Interpretation the different indices to assess and measure the periodontal parameters	Periodontal indices	A theoretical lecture using PowerPoint	Quizzes, practical exams, mid-term exams, and final exams.
17	1	Definition and types	The periodontal pocket).	A theoretical lecture using PowerPoint	Quizzes, practical exams, mid-term exams, and final exams.

18	1	Mechanism and histopathology of pocket formation	The periodontal pocket - Periodontal disease activity - Pulp changes associated with periodontal pockets	A theoretical lecture using PowerPoint	Quizzes, practical exams, mid-term exams, and final exams.
19	1	Interpretation the different phases of periodontal treatment	Treatment plan guidelines § - Phase 1 (behavior change, removal of supragingival dental biofilm and risk factor control):	A theoretical lecture using PowerPoint	Quizzes, practical exams, mid-term exams, and final exams.
20	1	Interpretation of the non-surgical phase of treatment	Treatment plan guidelines - Phase 2 (cause-related therapy)	A theoretical lecture using PowerPoint	Quizzes, practical exams, mid-term exams, and final exams.
21	1	Interpretation the corrective surgical treatment need	Treatment plan guidelines - Phase 3 (corrective/surgical phase)	A theoretical lecture using PowerPoint	Quizzes, practical exams, mid-term exams, and final exams.
22	1	Explain the importance of supportive periodontal care	Treatment plan guidelines - Phase 4 (maintenance therapy)	A theoretical lecture using PowerPoint	Quizzes, practical exams, mid-term exams, and final exams.
23	1	Explain the manual, surgical and ultrasonic instrument	Periodontal instruments and sharpening - Types of periodontal instruments:	A theoretical lecture using PowerPoint	Quizzes, practical exams, mid-term exams, and final exams.
24	1	Etiology of bad malodor and treatment	Breath Malodor (Halitosis)	A theoretical lecture using PowerPoint	Quizzes, practical exams, mid-term exams, and final exams.
25	1	Explain mechanical and chemical plaque control	Plaque biofilm control for the periodontal patient	A theoretical lecture using PowerPoint	Quizzes, practical exams, mid-term exams, and final exams.
26	1	The main type of systemic antibiotics Used in periodontal treatment	Systemic anti-infective therapy for periodontal diseases	A theoretical lecture using PowerPoint	Quizzes, practical exams, mid-term exams, and final exams.

27	1	Explain the effect of smoking on periodontal health	Smoking and Periodontal Disease	A theoretical lecture using PowerPoint	Quizzes, practical exams, mid-term exams, and final exams.
28	1	How to reach a correct diagnosis	Diagnosis according to the classification of Periodontology 2017	A theoretical lecture using PowerPoint	Quizzes, practical exams, mid-term exams, and final exams.
29	1	Explain steps of motivation and instruction	Motivation and Instruction to the patients	A theoretical lecture using PowerPoint	Quizzes, practical exams, mid-term exams, and final exams.
30	1	Treatment and prevention of teeth discoloration	The mechanisms of tooth discoloration - Prevention - Treatment approaches	A theoretical lecture using PowerPoint	Quizzes, practical exams, mid-term exams, and final exams.
Practical Part (1st &2nd semester)					
Clinical work on patients with oral assessment					

11- Course Evaluation		
1	Midyear exam – Theory	15%
2	Annual quest	25%
3	Final Practical Exam	20 %
4	Final Theory Exam	40%
Total		100%

12- Learning and Teaching Resources	
Required Text Books	NEWMAN AND CARRANZA'S CLINICAL PERIODONTOLOGY AND IMPLANTOLOGY, FOURTEENTH EDITION **2025 by Elsevier, Inc.**
Recommended Books and References (Scientific Journals and Reports)	Journal of clinical periodontology in the field of specialization and under the supervision of the specialist professor when conducting research or preparing a topic for discussion
Electronic References and websites	- Essentials of periodontology - Websites that may publish new modalities and resent news

306. Course Name: periodontology- clinical

307. Course Code:	
308. Semester / Year:2 semester /year	
309. Description Preparation Date:2/5/2025	
310. Available Attendance Forms: attending weekly in periodontal clinics	
311. Number of Credit Hours (Total) / Number of Units (Total):٩٠ hours practical	
312. Course administrator's name (mention all, if more than one name)	
Name: Hadeel Mazin Akram Email: hadeel.mazin@codental.uobaghdad.edu.iq	
313. Course Objectives	
Course Objectives	**1. The main objective of the department is to increase public awareness of oral and dental health among citizens, and to diagnose and treat patients suffering from periodontal diseases by preparing a team of students who will assume this role after graduation and serve in health centers spread throughout Iraq.** **2. Educational Aspect: By giving lectures, conducting scientific seminars, and performing advanced surgical procedures to train students accordingly.**

	3. Therapeutic and Preventive Aspect: The department currently covers the diagnosis, treatment, and follow-up of all cases of periodontal diseases referred to the college, in addition to the preventive aspect of this subject.

314. Teaching and Learning Strategies

Strategy	Comprehensive lectures are presented using PowerPoint presentations, aided by data projectors and smart boards. Educational movies are shown using LCD screens and electronic displays. Attending and watching periodontal surgeries

-١٠ Course Structure **Clinical and preclinical requirement(fourth year)**

Credit hours required	Requirement details
3 h/week (90 h/year)	**Preclinical:** - Training on ergonomic aspects of grasping and use of the instruments and their maintenance i.e. resharpening **Clinical:** - Recording medical and dental history - Patient's education and motivation - Oral hygiene instructions (OHI) - Recording periodontal indices - Diagnosis according to classification of periodontal disease and conditions (2017) - Non-surgical periodontal therapy (manual scaling + polishing) **Total score** :Minimum= ١٢٥٠ points - Maximum= ٢٥٠٠ points

315. Clinical work on patients with oral assessment for 30 weeks

316. Course Evaluation	
Distributing the score out of 45 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports , clinical exams and clinical requirements	
317. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	• Newman and Carranza's Clinical Periodontology and Implantology Lindhe's Clinical Periodontology and Implant Dentistry • Fundamentals of periodontal instrumentation and advanced root instrumentation (5th edition)
Main references (sources)	Newman and Carranza's Clinical Periodontology and Implantology Lindhe's Clinical Periodontology and Implant Dentistry • Fundamentals of periodontal instrumentation and advanced root instrumentation (5th edition)
Recommended books and references (scientific journals, reports…)	Recent research published in accredited international journals.
Electronic References, Websites	the college's electronic website Google scholar Pubmed researchgate

318. Course Name: Prosthodontics (theoretical for ٤th year)
319. Course Code: PR٤10
320. Semester / Year: 2025-2025

321. Description Preparation Date: ٧/5/2025

322. Available Attendance Forms: Attendance in the classroom for the theoretical lectures

323. Number of Credit Hours (Total) / Number of Units (Total): 30 hours/ 60 credit units

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

Name: Asst. Prof. Dr. Ihab N. Safi Email: ihab.nsafi@codental.uobaghdad.edu.iq
Name: Lect. Dr. Ali Abd alrazaq Email: ali.abdualrazaq@codental.uobaghdad.edu.iq
Name: Lect. Dr. Haasanan Qahtan alawan Email: h.alalwan.1@codental.uobaghdad.edu.iq

325. Course Objectives

Course Objectives	• **Learning various and miscellaneous topics in prosthodontics through theoretical lectures.** • **Teaching students the practical steps in treating prosthodontic patients.** • **Providing the student with skills to deal with patients in clinical settings.**

326. Teaching and Learning Strategies

Strategy	• Displaying the theoretical material and explaining it in detail on the smart screen. • Use the brainstorming method. • motivating students to use thinking and problem-solving skills. • Creating a spirit of competition among students through direct and indirect questions related to the scientific subject.

327. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	1		osteology	Theoretical lecture	Daily, monthly, mid-year, and final exams
2	1		myology	Theoretical lecture	Daily, monthly, mid-year, and final exams
3	1		Diagnosis and treatment plan for RPD	Theoretical lecture	Daily, monthly, mid-year, and final exams
4	1		To be continued Diagnosis and treatment	Theoretical lecture	Daily, monthly, mid-year, and final exams
5	1		Mouth preparation and abutment tooth preparation	Theoretical lecture	Daily, monthly, mid-year, and final exams
6	1		To be continued mouth preparation	Theoretical lecture	Daily, monthly, mid-year, and final exams
7	1		Impression materials and techniques for R PD	Theoretical lecture	Daily, monthly, mid-year, and final exams
8	1		To be continued impression techniques for RPD	Theoretical lecture	Daily, monthly, mid-year, and final exams
9	1		Support in FEE RPD	Theoretical lecture	Daily, monthly, mid-year, and final exams
10	1		Metal check RPD	Theoretical lecture	Daily, monthly, mid-year, and final exams
11	1		Occlusion in RPD	Theoretical lecture	Daily, monthly, mid-year, and final exams
12	1		Jaw relation in RPD	Theoretical lecture	Daily, monthly, mid-year, and final exams

13	1		Trial RPD	Theoretical lecture	Daily, monthly, mid-year, and final exams
14	1		Initial placement and adjustment of RPD	Theoretical lecture	Daily, monthly, mid-year, and final exams
15	1		Pre- prosthetic surgery	Theoretical lecture	Daily, monthly, mid-year, and final exams
16	1		To be continued pre-prosthetic syrgery	Theoretical lecture	Daily, monthly, mid-year, and final exams
17	1		Diagnosis and treatment plan CD	Theoretical lecture	Daily, monthly, mid-year, and final exams
18	1		To be continued diagnosis and treatment plan for CD	Theoretical lecture	Daily, monthly, mid-year, and final exams
19	1		Impression in CD	Theoretical lecture	Daily, monthly, mid-year, and final exams
20	1		Digital RPD	Theoretical lecture	Daily, monthly, mid-year, and final exams
21	1		TMJ and mandibular movement	Theoretical lecture	Daily, monthly, mid-year, and final exams
22	1		Jaw relation-vertical	Theoretical lecture	Daily, monthly, mid-year, and final exams
23	1		Jaw relation-horizontal	Theoretical lecture	Daily, monthly, mid-year, and final exams
24	1		Try in stage in CD	Theoretical lecture	Daily, monthly, mid-year, and final exams
25	1		Insertion of CD	Theoretical lecture	Daily, monthly, mid-year, and final exams
26	1		Adjustments of CD	Theoretical lecture	Daily, monthly, mid-year, and final exams
27	1		relining and rebasing of CD	Theoretical lecture	Daily, monthly, mid-year, and final exams
28	1		Repair of fractured RPD	Theoretical lecture	Daily, monthly, mid-year, and final exams
29	1		Esthetic RPD	Theoretical lecture	Daily, monthly, mid-year, and final exams
30	1		Post insertion complications in CD	Theoretical lecture	Daily, monthly, mid-year, and final exams

328. Course Evaluation	
Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc 15% mid-year exam 25% year evaluation (includes summer training, daily and monthly exams, and practical requirements) 25% final practical exam 35% final theoretical exam	
329. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	**١.Prosthodontic treatment for edentulous patient** **2.McCracken removable partial**
Main references (sources)	**Text book, atlas, besides to book for RPD and with paper from internet**
Recommended books and references (scientific journals, reports…)	• **Textbook of complete denture**
Electronic References, Websites	• Post insertion problems and their management in complete denture (https://jemds.com/data_pdf/3_fareedi%20honey-POST%20INSERTION%20PROBLEMS.pdf) • Classification System for Partial Edentulism (https://onlinelibrary.wiley.com/doi/10.1053/jopr.2002.126094)

330. Course Name: Conservative Dentistry
331. Course Code: 519CV
332. Semester / Year: Annual

333. Description Preparation Date: 2/5/2025

334. Available Attendance Forms: Lectures & Clinic

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

30 hrs. theoretical and 180 hrs. practical

336. Course administrators' names

1- Dr. Hussain Al-Huwaizi, E.mail: hussainalhuwaizi1@codental.uobaghdad.edu.iq
2- Dr. Mohammed Rasheed, mohammedrasheed@codental.uobaghdad.edu.iq
3- Dr. Lamis Al-Taee, Lamis.al-taee@codental.uobaghdad.edu.iq
4- Dr. Manhal Abdul Rahman, manhal.abdualrahman@codental.uobaghdad.edu.iq

337. Course Objectives

To provide a thorough knowledge for dental students regarding dental examination, diagnosis, and treatment approaches which give them the clinical skills that required in the field of dentistry. Furthermore, they receive the required theoretical and clinical training in Restorative Dentistry (Operative/ Endodontic/ Crown & Bridge) in the dental clinic on patients under supervision. The course includes;

- Identification of the instruments and materials that are used in Restorative Dentistry
- A thorough knowledge of the principles of endodontic root canal treatment.
- The basic principles of tooth preparation for different types of crown and bridges restorations to replace missing teeth by fixed prosthesis.

338. Teaching and Learning Strategies

Strategy

A- Knowledge and Understanding

- A thorough knowledge of dental examination and diagnosis.
- A special emphasis on the treatment plans that are required for each patient based on the patients' chief complaints.
- Identification of the instruments and materials that are required for dental treatment with an emphasis on the materials' properties following the required safety measures.
- A thorough knowledge of the procedural steps for endodontic treatment in the dental clinic.
- A thorough knowledge of the clinical steps of teeth preparation for crown & bridge to replace of missing teeth.

B. Subject-specific skills

	- Provide the skills of using different dental instruments and materials in restorative dentistry. - Provide the clinical skills of performing endodontic treatment in dental clinic. - Support students clinically to prepare teeth for crown & bridge works to replace missing teeth. C- Teaching and Learning Methods - In lectures the students are motivated to engage a critical thinking approach to solve problems related to dental practice. - Follow-up style of thinking of students and the ways of expression and speed of response. - Practical work in dental clinic - Lectures using power point program. - Educational movies. - Practical lessons on patients in dental clinic. - Seminar and discussion D. Thinking Skills - An encouragement of the thinking skills through a problem-based learning. - Acquire the basic principles prescribed for the curriculum. - Learn students how to solve clinical problems in practice. - An encouragement of students to lead groups E. General and Transferable Skills (Other skills relevant to employability and personal development) - Scientific preparation of students through application of restorative knowledge in clinical practice. - Problem-solving thinking. - Professional ethics. - Learning the skills that will help students to become a dentist and being able to treat patients. - Personal development

10. Course Structure					
Week	**Hrs.**	**ILOs**	**Unit/Module or Topic Title**	**Teaching Method**	**Assessment Method**
1	1	Endodontic diagnosis	Conservative Dentistry	Lectures using power point	Written exam, quiz, mid-year exam, final exam
2	1	Pain control in endodontic.	Conservative Dentistry	Lectures using power point	Written exam, quiz, mid-year exam, final exam
3	1	Endodontic radiography	Conservative Dentistry	Lectures using power point	Written exam, quiz, mid-year exam, final exam
4	1	Intracanal instruments (1)	Conservative Dentistry	Lectures using power point	Written exam, quiz, mid-year exam, final exam
5	1	Intracanal instruments (2)	Conservative Dentistry	Lectures using power point	Written exam, quiz, mid-year exam, final exam
6	1	Preparation of RCS	Conservative Dentistry	Lectures using power point	Written exam, quiz, mid-year exam, final exam
7	1	Microbiology	Conservative Dentistry	Lectures using power point	Written exam, quiz, mid-year exam, final exam
8	1	Terminology & definition of fixed partial denture FPDs	Conservative Dentistry	Lectures using power point	Written exam, quiz, mid-year exam, final exam
9	1	Types of Fixed Bridge	Conservative Dentistry	Lectures using power point	Written exam, quiz, mid-year exam, final exam
10	1	RC filling materials	Conservative Dentistry	Lectures using power point	Written exam, quiz, mid-year exam, final exam
11	1	Obturation of RCS (1)	Conservative Dentistry	Lectures using power point	Written exam, quiz, mid-year exam, final exam
12	1	Obturation of RCS (2)	Conservative Dentistry	Lectures using power point	Written exam, quiz, mid-year exam, final exam
13	1	Endo. Emergency treatment	Conservative Dentistry	Lectures using power point	Written exam, quiz, mid-year exam, final exam
14	1	Endo-perio relations	Conservative Dentistry	Lectures using power point	Written exam, quiz, mid-year exam, final exam
15	1	Restoration of endo. treated teeth	Conservative Dentistry	Lectures using power point	Written exam, quiz, mid-year exam, final exam

16	1	Tooth discoloration & bleaching	Conservative Dentistry	Lectures using power point	Written exam, quiz, mid-year exam, final exam
17	1	Patient Selection and Examination in FPDs	Conservative Dentistry	Lectures using power point	Written exam, quiz, mid-year exam, final exam
18	1	Clinical Consideration for Bridge Construction	Conservative Dentistry	Lectures using power point	Written exam, quiz, mid-year exam, final exam
19	1	Components of Fixed Bridge; Retainers	Conservative Dentistry	Lectures using power point	Written exam, quiz, mid-year exam, final exam
20	1	Components of Fixed Bridge; Pontics & connectors	Conservative Dentistry	Lectures using power point	Written exam, quiz, mid-year exam, final exam
21	1	Soft tissue management /Gingival Displacement.	Conservative Dentistry	Lectures using power point	Written exam, quiz, mid-year exam, final exam
22	1	Impression Materials & Procedures	Conservative Dentistry	Lectures using power point	Written exam, quiz, mid-year exam, final exam
23	1	Tooth discoloration & bleaching	Conservative Dentistry	Lectures using power point	Written exam, quiz, mid-year exam, final exam
24	1	Bite Registration and Articulation	Conservative Dentistry	Lectures using power point	Written exam, quiz, mid-year exam, final exam m
25	1	Provisional Restorations	Conservative Dentistry	Lectures using power point	Written exam, quiz, mid-year exam, final exam
26	1	Try-in and Shade Selection	Conservative Dentistry	Lectures using power point	Written exam, quiz, mid-year exam, final exam
27	1	Final Cementation Techniques	Conservative Dentistry	Lectures using power point	Written exam, quiz, mid-year exam, final exam
28	1	Failures in Fixed Prosthodontics	Conservative Dentistry	Lectures using power point	Written exam, quiz, mid-year exam, final exam
29	1	Resin-bonded bridges	Conservative Dentistry	Lectures using power point	Written exam, quiz, mid-year exam, final exam m
30	1	Porcelain in Fixed Prosthodontics (Current Ceramic).	Conservative Dentistry	Lectures using power point	Written exam, quiz, mid-year exam, final exam

13. Faculty

11. Course Evaluation
- Mid-year written exam 15% -Annual pursuit (Summer training, daily and monthly exams, and practical requirements) 25% - Final practical exam 20% - Final written exam 40%
12. Learning and Teaching Resources
Main books (sources) ▪ Endodontics, Ingle, Pathways of the pulp, Weine ▪ Contemporary Fixed Prosthodontic ▪ Fundamental Consideration in Fixed Prosthodontics. ▪ Theoretical and clinical training in using different materials and techniques in fixed prosthodontics ▪ Fixed and Removable Prosthodontics

339. Course Name: oral medicine
340. Course Code: 5290M
341. Semester / Year: 2025-2025
342. Description Preparation Date: 2/5/2025
343. Available Attendance Forms: Attendance in the classroom for the theoretical subject.
344. Number of Credit Hours (Total) / Number of Units (Total): 30 hours/60 credits
345. Course administrator's name (mention all, if more than one name)

Name: Fawaz Aswad Email: Fawaz.D.351@codental.uobaghdad.edu.iq
Name: Ameena Ryhan Diajil Email: ameena.diajil@codental.uobaghdad.edu.iq
Name: Noor Saad Mohammed Ali Email: noorsaad2011@codental.uobaghdad.edu.iq

346. Course Objectives

Course Objectives	• A precise scientific study of oral soft tissue diseases. • Study of the temporomandibular joint. • The relationship of oral diseases to other diseases of the body and laboratory investigations.

347. Teaching and Learning Strategies

Strategy	- Working to graduate dentists with scientific experience a diagnostic skills in the field of oral diseases. - Ensure that they have a scientific basis in the field of oral disea and their relationship to the rest of the body. -Scientific knowledge of the use of medicines and scientific deal with ill patients.

348. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1+2	2		The principles of oral diagnosis Clinical examinations	Theoretical	Daily quizzes, monthly, semi-annual, and final exams
3+4	2		Laboratory investigations in dentistry	Theoretical	Daily quizzes, monthly, semi-annual, and final exams
5+6	2		orofacial pain	Theoretical	Daily quizzes, monthly, semi-annual, and final exams

7+8	2		T.M.J	Theoretical	Daily quizzes, monthly, semi-annual, and final exams
9+10+11	3		Oral ulceration and Vesiculo-bullus lesions	Theoretical	Daily quizzes, monthly, semi-annual, and final exams
12+13	2		White & red lesions	Theoretical	Daily quizzes, monthly, semi-annual, and final exams
14+15	2		Early detection of oral Cancer	Theoretical	Daily quizzes, monthly, semi-annual, and final exams
16+17	2		Pigmented oral lesions	Theoretical	Daily quizzes, monthly, semi-annual, and final exams
18+19+20+21	4		Benign, Premalignant and malignant lesions of the oral cavity	Theoretical	Daily quizzes, monthly, semi-annual, and final exams
22+23	2		Neuromuscular Disorder	Theoretical	Daily quizzes, monthly, semi-annual, and final exams
24+25	2		Salivary gland diseases	Theoretical	Daily quizzes, monthly, semi-annual, and final exams
26+27+28	3		Autoimmune diseases	Theoretical	Daily quizzes, monthly, semi-

					annual, and final exams
29+30	2		Oral manifestation of allergic reaction	Theoretical	Daily quizzes, monthly, semi-annual, and final exams

349. Course Evaluation

Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc
15%midyear
25% annual pursuit (includes summer training, daily and monthly exams, and practical requirements)
20% final clinical exam
40% final theoretical exam

350. Learning and Teaching Resources

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

351. Course Name: oral medicine

352. Course Code: 5290M

353. Semester / Year: 2025-2025

354. Description Preparation Date: 2/5/2025

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

356. Number of Credit Hours (Total) / Number of Units (Total): 30 hours/60 credits

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

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Name: Rana Murtadha Email: Dr.rmh84@codental.uobaghdad.edu.iq

358. Course Objectives

Course Objectives	• A precise scientific study of oral soft tissue diseases. • Study of the temporomandibular joint. • The relationship of oral diseases to other diseases of the body and laboratory investigations.

359. Teaching and Learning Strategies

Strategy	- Working to graduate dentists with scientific experience a diagnostic skills in the field of oral diseases. - Ensure that they have a scientific basis in the field of oral disea and their relationship to the rest of the body. -Scientific knowledge of the use of medicines and scientific deal with ill patients.

360. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	4		Laboratory investigations in dentistry	clinical	Daily quizzes, monthly, semi-annual, and final exams
2	4		Viral infection	clinical	Daily quizzes, monthly, semi-annual, and final exams
3	4		Bacterial infection	clinical	Daily quizzes,

					monthly, semi-annual, and final exams
4	4		Fungal infection	clinical	Daily quizzes, monthly, semi-annual, and final exams
5	4		Diseases of the Respiratory tract	clinical	Daily quizzes, monthly, semi-annual, and final exams
6	4		Diseases of the cardiovascular system	clinical	Daily quizzes, monthly, semi-annual, and final exams
7	4		Diseases of gastrointestinal tract	clinical	Daily quizzes, monthly, semi-annual, and final exams
8	4		Renal diseases	clinical	Daily quizzes, monthly, semi-annual, and final exams
9	4		Anemia	clinical	Daily quizzes, monthly, semi-annual, and final exams
10	4		Leukemia	clinical	Daily quizzes, monthly, semi-annual, and final exams
11	4		Bleeding and clotting disorders	clinical	Daily quizzes, monthly, semi-annual, and final exams

12	4		Immunologic diseases	clinical	Daily quizzes, monthly, semi-annual, and final exams
13	4		Diseases of the thyroid gland	clinical	Daily quizzes, monthly, semi-annual, and final exams
14	4		Diabetes mellitus	clinical	Daily quizzes, monthly, semi-annual, and final exams
15	4		Orofacial pain and common headache disorders	clinical	Daily quizzes, monthly, semi-annual, and final exams
16	4		Neuromuscular diseases	clinical	Daily quizzes, monthly, semi-annual, and final exams
17	4		Temporomandibular disorders	clinical	Daily quizzes, monthly, semi-annual, and final exams
18	4		Salivary gland disorders	clinical	Daily quizzes, monthly, semi-annual, and final exams
19	4		Drugs in dentistry	clinical	Daily quizzes, monthly, semi-annual, and final exams
20	4		Drugs induced oral lesions	clinical	Daily quizzes, monthly, semi-

					annual, and final exams
21	4		Panoramic image interpretation	clinical	Daily quizzes, monthly, semi-annual, and final exams
22	4		Allergy	clinical	Daily quizzes, monthly, semi-annual, and final exams
23	4		Ulcerative ,vesicular, and bullous lesions	clinical	Daily quizzes, monthly, semi-annual, and final exams
24	4		Red and white lesions of the oral mucosa	clinical	Daily quizzes, monthly, semi-annual, and final exams
25	4		Pigmented lesions of the oral mucosa	clinical	Daily quizzes, monthly, semi-annual, and final exams
26	4		Benign lesions of the oral cavity and the jaw	clinical	Daily quizzes, monthly, semi-annual, and final exams
27	4		Oral and oropharyngeal cancer	clinical	Daily quizzes, monthly, semi-annual, and final exams
28	4		LASER in oral medicine	clinical	Daily quizzes, monthly, semi-annual, and final exams

29	4		Geriatric oral medicine	clinical	Daily quizzes, monthly, semi-annual, and final exams
30	4		Pediatric oral medicine	clinical	Daily quizzes, monthly, semi-annual, and final exams

361. Course Evaluation

Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc
15%midyear
25% annual pursuit (includes summer training, daily and monthly exams, and practical requirements)
20% final clinical exam
40% final theoretical exam

362. Learning and Teaching Resources

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

363. Course Name: Pediatric Dentistry

364. Course Code: 530PAPD

365. Semester / Year: 2025/2025

366. Description Preparation Date: 2/5/2025

367. Available Attendance Forms: attendance of the theoretical lectures

368. Number of Credit Hours (Total) / Number of Units (Total) 30 h / 60 units

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

Name: Assistant Prof. Aseel Haidar
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Name: Lecturer Heba Nafea
Email: hebaalkubaisy@ codental.uobaghdad.edu.iq

370. Course Objectives

Course Objectives	• Give Information to students in a manner enabling understanding and increased knowledge regarding the diagnosis and treatment of various diseases, mouth and teeth of children. • Giving instructions on how to deal with children of different behavior. • Emphasize the importance of spreading awareness among parents about of terms dental health deciduous and permanent both

371. Teaching and Learning Strategies

Strategy	- Delivering theoretical lectures using LDC data show, - Show education movies - Use of electronic classes

372. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	١		**Diagnosis and treatment planning**	Theory	Quizzes half year and fi written examination
2	١		**Preliminary medical and dental history**	Theory	Quizzes half year and fi written examination
3	١		**Art and science of behavior managemer**	Theory	Quizzes half year and fi written examination

4	١		**Non pharmacologic management of patient behavior**	Theory	Quizzes half year and fi written examination
5	١		**Pharmacologic management of patient behavior**	Theory	Quizzes half year and fi written examination
6	١		**Sedation in pediatric dentistry**	Theory	Quizzes half year and fi written examination
7	١		**management of traumatic injuries to th teeth and supporting tissues of children.**	Theory	Quizzes half year and fi written examination
8	١		**classification of injuries to the anterior teeth of children classification methods of clinical examination**	Theory	Quizzes half year and fi written examination
9	١		**Traumatic injuries of the primary teeth and its effect on permanent teeth**	Theory	Quizzes half year and fi written examination
10	١		**Treatment of injury of permanent teeth emergency treatment, temporary restoration of fractured teeth**	Theory	Quizzes half year and fi written examination
11	١		**Advances in Pediatric Dentistry: Advar in diagnostic aids, Advances in cavity preparation methods**	Theory	Quizzes half year and fi written examination
12	١		**Advances in endodontics, Advances in l anesthesia**	Theory	Quizzes half year and fi written examination
13	١		**Advances in restorative materials, Advances in surgical procedures, miscellaneous**	Theory	Quizzes half year and fi written examination
14	١		**Acquired disturbances of oral structure**	Theory	Quizzes half year and fi written examination
15	١		**Developmental disturbances of oral structures**	Theory	Quizzes half year and fi written examination

16	١		**Gingivitis and periodontal disease in children:**	Theory	Quizzes half year and fi written examination
17	١		**Acute candidacies (thrush), acute bacte infection, chronic nonspecific gingivitis, gingival diseases modified by systemic factors.**	Theory	Quizzes half year and fi written examination
18	١		**Gingival lesions of genetic origin, ascorb acid deficiency gingivitis.**	Theory	Quizzes half year and fi written examination
19	١		**Periodontal diseases in children, early onset periodontitis, prepubertal periodontitis, localized juvenile periodontitis.**	Theory	Quizzes half year and fi written examination
20	١		**Papillon – Lefevere syndrome, gingival recession, extrinsic stains and deposits on teeth**	Theory	Quizzes half year and fi written examination
21	١		**Management of space problems, plannir for space maintenance, loss of primary incisors**	Theory	Quizzes half year and fi written examination
22	١		**Space Maintenance for the First and Second Primary Molar and the Primary Canine Area, premature loss of second primary molar**	Theory	Quizzes half year and fi written examination
23	١		**Loss of the Second Primary Molar Before Eruption of the First Permanent Molar, Areas of Multiple Primary Molar Loss**	Theory	Quizzes half year and fi written examination
24	١		**Development of dental arch and occlusi**	Theory	Quizzes half year and fi written examination
25	١		**Arch length analysis;**	Theory	Quizzes half year and fi written examination
26	١		**Dental problems of the disabled child**	Theory	Quizzes half year and fi written examination
27	١		**Mental disability, Down syndrome, Intellectual disability, Learning disabili**	Theory	Quizzes half year and fi written examination

28	١		**Fragile X syndrome, cerebral palsy, autism,**	Theory	Quizzes half year and fi written examination
29	١		**Respiratory diseases, hearing loss, visua impairment, epilepsy**	Theory	Quizzes half year and fi written examination
30	1		**Heart disease, hemophilia, sickle cell anemia, viral hepatitis, AIDS, children with systemic diseases**	Theory	Quizzes half year and fi written examination

373. Course Evaluation

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

374. Learning and Teaching Resources

Required textbooks (curricular books, if any)	• Pediatric Dentistry Damle 3rd ed. 2009 • Textbook of pediatric dentistry • Nikhil Marwa 2nd ed. 2009 New Delhy • Handbook of pediatric dentistry (Cameron) mosby Elsevier/4th edition/2013 • Pediatric Dentistry A clinical approach/ Göran Koch, Sven Poulsen/ Wiley Blackwell Publishing Ltd/ 2nd ed./ 2009. • Principles and practice of pedodontics /Arathi Rao Jaypee/second edition2008 • Paediatric Dentistry/ Richard Welbury/ Fourth edition Oxford University Press, 2012 • Essentials of pediatric dentistry/ Kanchan Harikishan Asnani/ JAYPEE BROTHERS MEDICAL PUBLISHERS/1st ed. 2010 • Pediatric Dentistry Infancy through Adolescence/ 5th ed. / Paul S. Casamassimo et al./ Elsevier/ 2013 • Pediatric Restorative Dentistry/ Soraya Coelho Leal, Eliana Mitsue Takeshita/ Springer/ Springer International Publishing AG, part of Springer Nature 2019 • Pedodontics Practice and Management/ Badrinatheswar GV/ Jaypee Brothers Medical Publishers/ 1st ed./ 2010 Restorative Techniques in Paediatric Dentistry/ Duggal et 2nd ed./ Martin Dunitz /2002
Main references (sources)	McDONALD AND AVERY'S DENTISTRY for CHILD a ADOLESCENT 2016 by Elsevier
Recommended books and references (scientific journals, reports…)	Additional requirements such as Community-based facilities (Include for example, guest Lectures, internship, field studies) -Trying to spread awareness among school students through field visits and lecturing educational

	-summer training
Electronic References, Websites	www.ajodo.org, PubMed

375. Course Name: Preventive dentistry

376. Course Code: *531PD*

377. Semester / Year:٢٠٢٥_٢٠٢٥

378. Description Preparation Date:٢٠٢٥-٥-٢

379. Available Attendance Forms: lecture and practical (clinic)

380. Number of Credit Hours (Total) / Number of Units (Total)
30 hours lectures and 37.5 hours practical
٢credit for theory and 1.25for practical

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

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382. Course Objectives

Course Objectives	Definition of the importance of Preventive Dentistry and applications for individuals and society, and in particular to the widespread diseases such as dental diseases

383. Teaching and Learning Strategies

Strategy	give information to students in a manner enabling understanding and increased knowledge regarding the diagnosis and treatment of various diseases, mouth and teeth of children Gives instructions for the care of teeth and health education for the prevention of dental caries and gingival disease Give guidelines and programs for preventive oral health for seniors people Give guidelines and programs for preventive oral health for people with special needs giving instructions on how to deal with children of different behavior

	Emphasize the importance of spreading awareness among parents about of terms dental health for deciduous and permanent tooth

384. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	1		Preventive dentistry (introduction) • What is preventive dentistry? • Prevention is better than a cure • Is preventive dentistry still needed? • Levels of prevention • Caries prevention: how far it l come in one centu	lecture us power poi program	Quizzes half year and final written examination
٢	1		Dental caries development • Etiology of dental caries • Inorganic and organic components of tooth • Terminology of dental caries • Dynamics Process of De-/Remineralization • The development of a carious lesion • Root caries • Clinical appearance of root caries Classification of root caries	lecture us power poi program	Quizzes half year and final written examination
3	1		Diagnosis of dental caries • Detection systems of caries • visual and tactile examinations • Radiographic techniques • Electrical current measurement (electronic resistant method) • Fiber Optic Transillumination (FOTI and DiFOTI) (Enhanced visual techniques) • Fluorescent techniques Other techniques like Dyes, Ultrasound techniques, Photo thermal Radiometry (PTR).	lecture us power poi program	Quizzes half year and final written examination
4	1		Fluoride in Dentistry • Fluoride and Dental Caries. • Fluoride in Environment. • Fluoride Metabolism: • Absorption of fluoride.	lecture us power poi program	Quizzes half year and final written examination

			• Distribution of Fluoride in the Body. Fluoride Excretion		
5	1		Systemic fluoridation (history) • Dental Fluorosis. • Clinical Appearance and classification of dental fluorosis. • Pathogenesis of dental fluorosis. • Treatment of Dental Fluorosis. • Incipient Caries and Fluorosis Diagnosis. • Dental fluorosis and bone fluorosis.	lecture us power poi program	Quizzes half year and final written examination
6	1		Communal water fluoridation • Communal water Artificial Fluoridation • Artificial water fluoridation level • Advantages and disadvantage of water fluoridation. • Systemic effect of fluoride • Fluoride compound used in water fluoridation • Medical aspect of Water Fluoridation School Water Fluoridation	lecture us power poi program	Quizzes half year and final written examination
7	1		Fluoride supplements • Fluoride Supplements. • Instruction to use fluoride supplement (tablet or lozenges or drop) • Fluoridated salt Fluoridated milk	lecture us power poi program	Quizzes half year and final written examination
8	1		Topical fluoridation • Advantages & Disadvantages of topical fluoride. • Mechanisms of Fluoride Action. • Fluoride's effect on tooth mineral. • Inhibition of Bacterial Enzyme System. • Classification of Topical Fluoride. Fluoride Compounds.	lecture us power poi program	Quizzes half year and final written examination

9	1		Self-applied fluoride • Requisites for self-applied fluoride agents. • Fluoride Dentifrices. • Fluoride Mouth rinses. • Fluoride Gel. • Fluoride exposure from multiple sources. Fluoride and Tooth erosion	lecture us power poi program	Quizzes half year and final written examination
10	1		Professionally applied fluoride • Indication of Topical fluoride applications • Types of professionally applied fluorides: • Aqueous Solutions • Fluoride Gels. • Fluoride Varnishes. • Fluoride Prophylactic Paste. • Restorative Materials Containing Fluoride Fluoride Containing Devices (Slow Release).	lecture us power poi program	Quizzes half year and final written examination
11	1		Toxicity of fluoride • Fluoride toxicity:definition • Sources of excess systemic fluoride • Acute toxicity ▪ General factors affecting acute toxicity ▪ Clinical signs, diagnosis ▪ Emergency treatment • Chronic Fluoride Exposure (toxicity) ▪ Non-dental clinical signs ▪ Medical management of chronic fluoride toxicity • Home Security of Fluoride Products Recommendations to avoid toxicity	lecture us power poi program	Quizzes half year and final written examination
12	1		Microbiology of caries • Microbial ecology in the oral cavity • Acquisition of the resident oral microflora • Site distribution of oral bacteria • Ecological factors affecting the growth and metabolism of oral bacteria	lecture us power poi program	Quizzes half year and final written examination

			• Dental biofilms: development, structure, composition and properties • Development of dental biofilms • Pellicle formation • Microbial colonization • Initial microbial colonization • Microbial succession Microbial composition of the clima community (mature biofilm)s		
13	1		Cariogenic potential of bacteria • Virulence of microorganisms • Major dental caries-associated bacteria • *Mutans streptococci* • *Lactobacilli* • *Actinomyces* • *Veillonella* Other caries-associated bacteria	lecture us power poi program	Quizzes half year and final written examination
14	1		Dental sealants • definition • History • indication and contraindication • sealant in adult • Ideal sealants materials • Requisites for Sealant Retention • Sealant Placement Guidelines • Fluoride-Releasing Sealants • Glass ionomer sealants • Colored Versus Clear Sealant**s** Sealants for proximal enamel surfaces	lecture us power poi program	Quizzes half year and final written examination
15	1		New approach in restorative dentistry • Minimally Invasive Treatment Technique • Minimally Invasive Cavity Preparation • Non-machinery Preparation • LASER • Chemo mechanical Caries Removal • Preventive Resin Restorations Remineralization Treatment	lecture us power poi program	Quizzes half year and final written examination
16	**1**		Diet and dental caries • Role of carbohydrates in caries development • Evidences	lecture us power poi program	Quizzes half year and final written examination

			• Factors affecting food cariogenicity • Physical form of food and clearance time • Types of fermentable carbohydrate • The basic Stephan curve Frequency of intake sugar and dental caries		
17	**1**		Non- sugar sweeteners • The sweetness of sugars • Non- sugar sweeteners • Bulk sweeteners • Intense sweeteners • Protective factors in food • Fruit and dental caries Testing food cariogenicity	lecture us power poi program	Quizzes half year and final written examination
18	**1**		Dietary counseling in dental practice • Nutritional status assessment • Body Mass Index • Assessment of dietary intake • Objectives of dietary assessment • 24-hour recall • Dietary record • Food frequency questionnaires • Evaluation of cariogenic potentiall • Evaluation of nutritive value • Dietary counseling • Approach to counseling Motivation	lecture us power poi program	Quizzes half year and final written examination
19	**1**		Nutrition and oral health • Nutrition dental caries • Systemic effect • Morphology of the teeth • The quality of the hard tissues • Quality of saliva • Evidences of the effect of some nutrients on dental caries Nutrition and eruption of teeth	lecture us power poi program	Quizzes half year and final written examination
20	**1**		Nutrition, diet & periodontal disease • Nutrition and periodontal health • The mechanisms by which nutrition may affect periodontal disease • Effect of food texture on periodontal health	lecture us power poi program	Quizzes half year and final written examination

			• Nutrition and oral mucosal disease • Nutrition and oral cancer • Primary prevention Secondary prevention		
21	**1**		Saliva and dental caries • Oral fluid • Function of saliva • Composition of saliva • Factors influencing salivary composition • Salivary flow rate • Factors influencing salivary flow rate Influence of saliva on dental caries	lecture us power poi program	Quizzes half year and final written examination
22	**1**		Oral immune system • Immunity • Non-specific immune factors • Specific immune factors • Immunization of dental caries Vaccination	lecture us power poi program	Quizzes half year and final written examination
23	**1**		Oral hygiene measures(Mechanical) • Acquired pellicle • Dental plaque • Dental calculus • Mechanical plaque control aids • Toothbrushes • Tooth brushing methods • Powered toothbrush • Objectives of toothbrushing Interdental Cleaning aids	lecture us power poi program	Quizzes half year and final written examination
24	**1**		Oral hygiene measures (Chemical) • Ideal properties of chemical plaque control agents • Modes of action • Chlorhexidine • Triclosan • Essential oil mouthwashes or Listerine • Enzymes • Sanguinarine extracts • Metal ions • Antibiotics • Dentifrices Composition of dentifrices	lecture us power poi program	Quizzes half year and final written examination

25	**1**		Identification of high risk group of dental caries • Steps for diagnosis of high risk group • Goals of caries risk assessment • Caries identification • Caries risk factors • Caries protective factors • Caries susceptibility • Caries activity • Caries risk • Factors in caries risk assessment Caries risk in children Management in children	lecture us power poi program	Quizzes half year and final written examination
26	**1**		Dental health of disabled and medically compromised patients • Disability • Classification of disabling conditions • The issues regarding the delivery of care to people with disabilities • Dental management and preventive measures among disabled • individuals • The risk factors for dental caries among disabled individuals • People with physical (neurological) impairment • Visual Deficits • Hearing problems • Mentally retardation • medical compromised patients • Specialized Equipment for disabled patient management Dental care for Institutionaliz disabled individuals	lecture us power poi program	Quizzes half year and final written examination
27	**1**		Geriatric dentistry • Aging • Geriatric dentistry • Prevention of elderly segment of population • The major results of aging process • Changes of tooth structure Root caries	lecture us power poi program	Quizzes half year and final written examination

28	**1**		Health education and motivation • Objectives of health education • Principles of health education • Communication • Health education planning Steps of learning	lecture us power poi program	Quizzes half year and final written examination
29	**1**		Uses of LASER in dentistry • What is LASER? • Laser effects on tissues • Role of laser in preventive dentistry • Certain roles of laser in prevention of dental caries • CO2 laser • Nd:YAG laser • Ruby laser • Erbium lasers • Benefits of dental lasers • Drawbacks of dental lasers • Laser Safety Laser Safety Officer (LSO) duties		
30	**1**		Prevention of peri-implant disease • Dental implant parts • Dental implant and biofilm • Implant Maintenance • Professional care in dental clinic Home care	lecture us power poi program	Quizzes half year and final written examination
week	**hour**		**Clinic. structure scheduled**	**Teaching method**	**Evaluation method**
2weeks	**2.5hour /2weeks**		Diagnosis and treatment planning	(clinic) practical	Quizzes requirements, final clinic examination
			Preliminary medical and dental history,Clinical examination , Radio graphic examination	(clinic) practical	Quizzes requirements, final clinic examination
			Demonstration and use of Primary prevention program by removal of dental plaque and calculus and application of fluoride and fissure sealants	(clinic) practical	Quizzes requirements, final clinic examination

			Monitoring of developing dentition and recognition and prevention (through use of space maintainers) or interception of any occurrence of malocclusion	(clinic) practical	Quizzes requirements, final clinic examination
			Caries removal and restoration of primary and young developing permanent dentition with variety of restorative materials	(clinic) practical	Quizzes requirements, final clinic examination
			Trauma management in anterior teeth	(clinic) practical	Quizzes requirements, final clinic examination
			Minimal intervention dentistry by removal of dental decay and choice of suitable restorative material	(clinic) practical	Quizzes requirements, final clinic examination
			Pulp therapy for primary dentition	(clinic) practical	Quizzes requirements, final clinic examination
			Management of simple cases of dental anomalies and other developmental defects	(clinic) practical	Quizzes requirements, final clinic examination
			Maintenance of pulp vitality by use of regenerative materials and Root canal treatment for anterior non vital teeth	(clinic) practical	Quizzes requirements, final clinic examination
			Extraction for non restorable primary and permanent teeth or over-retained primary dentition and permanent teeth for space creation for orthodontic treatment	(clinic) practical	Quizzes requirements, final clinic examination
			Management of molar incisor hypomineralization MIH	(clinic) practical	Quizzes requirements, final clinic examination
			Behavior management for young patients	(clinic) practical	Quizzes requirements, final clinic examination

			Infection control re-assurance and guidance of students	(clinic) practical	Quizzes requirements, final clinic examination
			Tooth colored restoration technique	(clinic) practical	Quizzes requirements, final clinic examination
			Radiographic prescription and interpretation of results	(clinic) practical	Quizzes requirements, final clinic examination

385. Course Evaluation

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

386. Learning and Teaching Resources

Required textbooks (curricular books, if ar	• Primary Preventive Dentistry by Harris NO Garcia-GodoyF-NatheCN 8th Ed. (20014) • Comprehensive preventive dentistry (2012) Edited by Hardy Limeback
Main references (sources)	• Dental Caries Principles and Management 2016 by Zhou Xuedong Springer-Verlag Berlin Heidelberg • Dental caries, the disease and clinical management Ole fejerslkov and Edwina kidd., 2nd edition , black well, 2008 • The prevention of oral disease by Murry JJ NunnJH and Steele JG fourth edition, 2003 • Essential of dental caries the disease and its management by Kidd E third edition (2005) • Textbook of Cariology by Fejerscov and Thylstryp 1996 • Principles and practice of public health dentistry by Krishna M and DasarPL.2010

	• Text book of preventive and social medicine. Gupta M. and Mahajan BK. 3rd edition, 2003 • Dentistry, dental practices and the community Striffler D, Young W., and Burt B., 5th edition 1999. • Text book Public health dentistry , CM Marya, JAYPEE. • 2011. • Diagnosis and risk prediction of dental caries . per Axelsson , DDS, PHD, 2000 • Laser in Dentistry guide for clinical practice by Patricia M. Freitas and Alyne Simoes 2015 • Dental caries, the disease and clinical management Ole fejerslkov and Edwina kidd., 2nd edition , black well, 2008. • Nutrition in clinical dentistry 3rd ed by Abrahame Nizel and Athenas S Papas1989 • Human and nutrition by HelenA Guthrie and Mary Frances Picciano 1995 • Nutrition and immunology principal and practice by Eric Gershwin, Bruce German and Carl L Keen 2000 Nutrition diet and oral health in Ru – Gunn A.J. and Nunn J.H (1999) edt Oxford University Press
Recommended books and references (scientific journals, reports…)	• British Dental Journal • Australian Dental Journal • International Dental Journal • Journal of the Canadian Dental Association • International Journal of Dental Hygiene Community Dental Health
Electronic References, Websites	

387. Course Name: Prosthodontics (theoretical for 5th year)
388. Course Code: PR510
389. Semester / Year: 2025-2025
390. Description Preparation Date: 2/5/2025
391. Available Attendance Forms: Attendance in the classroom for the theoretical lectures
392. Number of Credit Hours (Total) / Number of Units (Total): 30 hours/ 60 credit units
393. Course administrator's name (mention all, if more than one name)
Name: Prof. Dr. Thekra Ismael Hamad Email: thikra.ismail@codental.uobaghdad.edu.iq Name: Asst. Prof. Dr. Ghasak Husham Jani Email: dr.ghasak@codental.uobaghdad.edu.iq Name: Lect. Dr. Mustafa Saadi Ali Tukmachi Email: mustafa.tukmachi@codental.uobaghdad.edu.iq
394. Course Objectives

Course Objectives	• **Learning various and miscellaneous topics in prosthodontics through theoretical lectures.** • **Teaching students the practical steps in treating prosthodontic patients.** • **Providing the student with skills to deal with patients in clinical settings.**

395. Teaching and Learning Strategies

Strategy	• Displaying the theoretical material and explaining it in detail on the smart screen. • Use the brainstorming method. • motivating students to use thinking and problem-solving skills. • Creating a spirit of competition among students through direct and indirect questions related to the scientific subject.

396. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1 + 2	2		Occlusion in complete denture	Theoretical lecture	Daily, monthly, mid-year, and final exams
3 + 4	2		Retention, stability and support	Theoretical lecture	Daily, monthly, mid-year, and final exams
5 + 6	2		Complications of complete denture	Theoretical lecture	Daily, monthly, mid-year, and final exams
7 + 8	2		Post insertion problems	Theoretical lecture	Daily, monthly, mid-year, and final exams
9 + 10	2		Immediate denture	Theoretical lecture	Daily, monthly, mid-year, and final exams
11 + 12	2		Classification system for completely edentulous patients	Theoretical lecture	Daily, monthly, mid-year, and final exams
13	1		Posterior palatal seal area	Theoretical lecture	Daily, monthly, mid-year, and final exams
14	1		Single complete denture	Theoretical lecture	Daily, monthly, mid-year, and final exams
15 + 16	2		Geriatric dentistry	Theoretical lecture	Daily, monthly, mid-year, and final exams
17 + 18	2		Maxillofacial Prostheses	Theoretical lecture	Daily, monthly, mid-year, and final exams
19	1		Residual Ridge resorption	Theoretical lecture	Daily, monthly, mid-year, and final exams
20 + 21	2		Dental implantology	Theoretical lecture	Daily, monthly, mid-year, and final exams
23	1		Characteristics of ideal materials for dental implant	Theoretical lecture	Daily, monthly, mid-year, and final exams
24 + 25	2		Esthetics in complete denture	Theoretical lecture	Daily, monthly, mid-year, and final exams
26	1		Copy denture	Theoretical lecture	Daily, monthly, mid-year, and final exams
27 + 28	2		Over denture	Theoretical lecture	Daily, monthly, mid-year, and final exams
29	1		Attachments in over denture	Theoretical lecture	Daily, monthly, mid-year, and final exams
30	1		Neutral zone in complete denture	Theoretical lecture	Daily, monthly, mid-year, and final exams
397. Course Evaluation					

Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc 15% mid-year exam 25% year evaluation (includes summer training, daily and monthly exams, and practical requirements) 25% final practical exam 35% final theoretical exam	
398. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	• PROSTHODONTIC TREATMENT FOR EDENTULOUS PATIENTS: COMPLETE DENTURES AND IMPLANT-SUPPORTED PROSTHESES • Textbook of Complete Denture PROSTHODONTICS • Essentials of Prosthodontics
Main references (source	Textbooks + internet sources
Recommended books and references (scientific journals, reports…)	• Application of the Neutral Zone in Prosthodontics • Complete Dentures from Planning to Problem Solving
Electronic References, Websites	• Post insertion problems and their management in complete denture (https://jemds.com/data_pdf/3_fareedi%20honey-POST%20INSERTION%20PROBLEMS.pdf) • Evaluation of satisfaction and complications in patients with existing complete dentures (https://www.jstage.jst.go.jp/article/josnusd/55/1/55_29/_article) • Classification System for Complete Edentulism (https://onlinelibrary.wiley.com/doi/10.1111/j.1532-849X.1999.tb00005.x) • Classification System for Partial Edentulism (https://onlinelibrary.wiley.com/doi/10.1053/jopr.2002.126094) • Identification of complete denture problems: a summary (https://www.nature.com/articles/4800703)

399. Course Name: periodontology
400. Course Code: 528PT
401. Semester / Year:2 semester /year
402. Description Preparation Date:2/5/2025
403. Available Attendance Forms: attending weekly
404. Number of Credit Hours (Total) / Number of Units (Total): 30 hours theoretical
405. Course administrator's name (mention all, if more than one name)
Name: Hadeel Mazin Akram .Email: hadeel.mazin@codental.uobaghdad.edu.iq Alaa omran ali alaa_ali1973@codental.uobaghdad.edu.iq Saif sehaam saliem Drsaifjuma@codental.uobaghdad.edu.iq Maha Shukri Mahmood mahashukri@codental.uobaghdad.edu.iq Basima Gh Ali Basimaali@codental.uobaghdad.edu.iq
406. Course Objectives

Course Objectives	**1. The main objective of the department is to increase public awareness of oral and dental health among citizens, and to diagnose and treat patients suffering from periodontal diseases by preparing a team of students who will assume this role after graduation and serve in health centers spread throughout Iraq.**

	2. Educational Aspect: By giving lectures, conducting scientific seminars, and performing advanced surgical procedures to train students accordingly. **3. Therapeutic and Preventive Aspect: The department currently covers the diagnosis, treatment, and follow-up of all cases of periodontal diseases referred to the college, in addition to the preventive aspect of this subject.**

407. Teaching and Learning Strategies

Strategy	Comprehensive lectures are presented using PowerPoint presentations, aided by data projectors and smart boards. Educational movies are shown using LCD screens and electronic displays.

408. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	1	Understand the fundamentals of periodontal examination and diagnosis to effectively assess and classify periodontal diseases.	Periodontal examination and diagnosis	A theoretical lecture using PowerPoint	Quizzes, practical exams, mid-term exams, and final exams.
2	1	Identify different patterns of bone loss and bone	Bone loss and patterns of bone destruction	A theoretical lecture	Quizzes, practical exams, mid-

		destruction in periodontal disease, aiding in accurate diagnosis and treatment planning.		using PowerPoint	term exams, and final exams
3	1	Evaluate the role of radiographic techniques in diagnosing periodontal conditions and interpreting bone loss accurately.	Radiographic aids in the diagnosis of periodontal disease	A theoretical lecture using PowerPoint	Quizzes, practical exams, mid-term exams, and final exams
4	1	Apply advanced diagnostic methods to assess periodontal response to external forces and its implications in treatment outcomes	Advanced diagnosis	A theoretical lecture using PowerPoint	Quizzes, practical exams, mid-term exams, and final exams
5	1	Explain how periodontal tissues respond to external forces and understand the biomechanics involved.	Periodontal response to external forces	A theoretical lecture using PowerPoint	Quizzes, practical exams, mid-term exams, and final exams
6+7	2	Explain the immunological aspects influencing periodontal disease progression and treatment modalities	Immunology	A theoretical lecture using PowerPoint	Quizzes, practical exams, mid-term exams, and final exams
8	1	Analyze tooth mobility and its significance in periodontal disease progression and treatment planning.	Tooth mobility	A theoretical lecture using PowerPoint	Quizzes, practical exams, mid-term exams, and final exams

9	1	Describe the epidemiology of periodontal diseases and its impact on public health and clinical management.	Epidemiology of periodontal diseases	A theoretical lecture using PowerPoint	Quizzes, practical exams, mid-term exams, and final exams
10	1	Formulate prognosis based on comprehensive assessment of periodontal diseases and associated risk factors	Determination of prognosis	A theoretical lecture using PowerPoint	Quizzes, practical exams, mid-term exams, and final exams
11	1	Recognize the interconnections between periodontal diseases and other dental disciplines to enhance comprehensive patient care.	Interrelationships of periodontal disease and therapy with other dental disciplines	A theoretical lecture using PowerPoint	Quizzes, practical exams, mid-term exams, and final exams
12	1	Demonstrate comprehension of general principles of periodontal surgery and its application in treating various conditions.	Periodontal surgery. General principles	A theoretical lecture using PowerPoint	Quizzes, practical exams, mid-term exams, and final exams
13	1	Apply sonic and ultrasonic instrumentation techniques for effective biofilm removal and periodontal therapy.	Sonic and ultrasonic instrumentation and irrigation	A theoretical lecture using PowerPoint	Quizzes, practical exams, mid-term exams, and final exams
14	1	Discuss gingivectomy and local excision procedures in managing periodontal conditions.	Gingivectomy and local excision	A theoretical lecture using PowerPoint	Quizzes, practical exams, mid-term exams, and final exams

15	1	Describe flap surgery techniques and their role in accessing and treating periodontal defects.	Flap surgery	A theoretical lecture using PowerPoint	Quizzes, practical exams, mid-term exams, and final exams
16	1	Evaluate mucogingival and aesthetic surgical procedures for enhancing gingival aesthetics and function.	Mucogingival and aesthetic surgery	A theoretical lecture using PowerPoint	Quizzes, practical exams, mid-term exams, and final exams
17	1	Assess furcation involvement and treatment strategies to preserve tooth stability and function.	Furcation: involvement and treatment	A theoretical lecture using PowerPoint	Quizzes, practical exams, mid-term exams, and final exams
18	1	Explain the principles and applications of laser therapy in periodontal treatment.	Laser therapy	A theoretical lecture using PowerPoint	Quizzes, practical exams, mid-term exams, and final exams
19	1	Evaluate locally delivered antimicrobials for their role in managing periodontal infections.	Locally delivered, controlled-release antimicrobials	A theoretical lecture using PowerPoint	Quizzes, practical exams, mid-term exams, and final exams
20+21	2	Develop strategies for managing periodontal diseases in medically compromised patients.	Management of medically compromised patients	A theoretical lecture using PowerPoint	Quizzes, practical exams, mid-term exams, and final exams
22	1	Analyze the composition and clinical significance of gingival crevicular fluid (GCF) in periodontal	Gingival crevicular fluid (GCF)	A theoretical lecture using PowerPoint	Quizzes, practical exams, mid-term exams, and final exams

		diagnosis and monitoring.			
23	1	Describe the etiology and management strategies for dentin hypersensitivity associated with periodontal diseases.	Dentin hypersensitivity	A theoretical lecture using PowerPoint	Quizzes, practical exams, mid-term exams, and final exams
24	1	Examine tissue regeneration concepts and techniques for periodontal defect repair and therapy.	Tissue regeneration	A theoretical lecture using PowerPoint	Quizzes, practical exams, mid-term exams, and final exams
25	1	Understands the basics of Regenerative periodontal therapy	Regenerative periodontal therapy	A theoretical lecture using PowerPoint	Quizzes, practical exams, mid-term exams, and final exams
26	1	Types, indication and contraindications of reconstructive surgical techniques	Reconstructive surgical techniques	A theoretical lecture using PowerPoint	Quizzes, practical exams, mid-term exams, and final exams
27	1	Apply advanced regenerative approaches for promoting periodontal tissue healing and reconstruction.	Advanced regenerative approaches	A theoretical lecture using PowerPoint	Quizzes, practical exams, mid-term exams, and final exams
28	1	Identify peri-implant anatomy and classify peri-implant diseases for appropriate treatment planning.	Peri-implant anatomy and Peri-implant diseases classification	A theoretical lecture using PowerPoint	Quizzes, practical exams, mid-term exams, and final exams
29	1	Analyze implant-related complications and failures to improve long-	Implant-related complications and failure	A theoretical lecture using PowerPoint	Quizzes, practical exams, mid-term exams, and final exams

		term implant success rates.			
30	1	Develop supportive implant treatment protocols for maintaining peri-implant health and longevity.	Supportive implant treatment	A theoretical lecture using PowerPoint	Quizzes, practical exams, mid-term exams, and final exams

409. Course Evaluation

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

410. Learning and Teaching Resources

Required textbooks (curricular books, if any)	• Newman and Carranza's Clinical Periodontology and Implantology Lindhe's Clinical Periodontology and Implant Dentistry
Main references (sources)	Newman and Carranza's Clinical Periodontology and Implantology Lindhe's Clinical Periodontology and Implant Dentistry
Recommended books and references (scientific journals, reports…)	Recent research published in accredited international journals.
Electronic References, Websites	the college's electronic website Google scholar Pubmed researchgate

411. Course Name: periodontology- clinical

412. Course Code: 528PT

413. Semester / Year:2 semester /year

414. Description Preparation Date:2/5/2025	
415. Available Attendance Forms: attending weekly in periodontal clinics	
416. Number of Credit Hours (Total) / Number of Units (Total):٩٠ hours practical	
417. Course administrator's name (mention all, if more than one name)	
Name: Hadeel Mazin Akram Email: hadeel.mazin@codental.uobaghdad.edu.iq	
418. Course Objectives	
Course Objectives	**1. The main objective of the department is to increase public awareness of oral and dental health among citizens, and to diagnose and treat patients suffering from periodontal diseases by preparing a team of students who will assume this role after graduation and serve in health centers spread throughout Iraq.** **2. Educational Aspect: By giving lectures, conducting scientific seminars, and performing advanced surgical procedures to train students accordingly.** **3. Therapeutic and Preventive Aspect: The department currently covers the diagnosis, treatment, and follow-up of all cases of periodontal diseases**

	referred to the college, in addition to the preventive aspect of this subject.

419. Teaching and Learning Strategies

Strategy	Comprehensive lectures are presented using PowerPoint presentations, aided by data projectors and smart boards. Educational movies are shown using LCD screens and electronic displays. Attending and watching periodontal surgeries

420. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	3	How to fill out a periodontal information sheet for patients with periodontal inflammation.	**How to fill a periodontal case sheet**	A theoretical lecture using PowerPoint	Quizzes, practical exams, mid-term exams, and final exams.
2	3	Identifying the correct diagnosis. Developing a treatment plan based on the diagnosis, including appropriate steps and interventions.	**Diagnosis and treatment plan**	Explanation and direct discussion with the students.	Quizzes, practical exams, mid-term exams, and final exams
3	3	Recognizing different types of periodontal disease indices.	**Periodontal indices**	Direct explanation and discussion with the students.	Quizzes, practical exams, mid-term exams, and final exams
4	3	Learning techniques of ultrasonic cleaning to remove periodontal deposits.	**Ultra sonic scaling**	Direct explanation about the device and its usage.	Quizzes, practical exams, mid-term exams, and final exams

		And applying them professionally to improve periodontal tissue health.			
5	3	Learning how to do root planing correctly	**Root planing**	Direct explanation and discussion with students, including presentation of the instruments used.	Quizzes, practical exams, mid-term exams, and final exams
٦-30	3	Participating in practical cases to address challenges in periodontal treatment. Applying acquired diagnostic and treatment skills to patients under supervision of specialists.	**Periodontal treatment on patients** (done by students and supervised by periodontist)	Practical application for students on patients.	Quizzes, practical exams, mid-term exams, and final exams

421. Course Evaluation

Distributing the score out of 45 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports , clinical exams and clinical requirements

422. Learning and Teaching Resources

Required textbooks (curricular books, if any)	• Newman and Carranza's Clinical Periodontology and Implantology Lindhe's Clinical Periodontology and Implant Dentistry • Fundamentals of periodontal instrumentation and advanced root instrumentation (5th edition)
Main references (sources)	Newman and Carranza's Clinical Periodontology and Implantology

	Lindhe's Clinical Periodontology and Implant Dentistry • Fundamentals of periodontal instrumentation and advanced root instrumentation (5th edition)
Recommended books and references (scientific journals, reports…)	Recent research published in accredited international journals.
Electronic References, Websites	the college's electronic website Google scholar Pubmed researchgate

423. Course Name: orthodontics for 5th grade
424. Course Code: 526OD
425. Semester / Year: 2025-2025
426. Description Preparation Date: ٢٠٢٥/٥/٢
427. Available Attendance Forms: Attendance in the classroom for the theoretical subject
428. Number of Credit Hours (Total) / Number of Units (Total): 30 hours/60 credits
429. Course administrator's name (mention all, if more than one name)
Name: asst. Prof. Noor Falah Kadhim Email: noor.alkhawaja@codental.uobaghdad.edu.iq

430. Course Objectives

Course Objectives	**• Gain knowledge about methods of diagnosing and treating malocclusion case** **• Skills objectives of the course:** **1. Diagnosis and treatment of malocclusion cases** **2. Knowing the types of orthodontic devices related to each case.** **• Emotional and value goals** **• Solve problems related to malocclusion using removable and functio orthodontic devices**

431. Teaching and Learning Strategies

Strategy	• Lectures using Power Point (data show) • Training clinics for jaw and dental orthodontics • Seminars

432. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
٢ + ١	٢		Orthodontic diagnosis and :treatment planning a. Personal data b. Clinical examination i. General body stature ii. Face examination in 3 dimensions iii. Skeletal examination iv. Soft tissue examination v. Occlusion (classification, midline, overjet and overbite) vi. Dentition (teeth number, position, dental age, wear, cracks and white spots) vii. Temporomandibular joint		Daily, monthly, semi-annu and final exams
٤ + ٣	٢		c. Diagnostic aids i. orthopantomography (development, advantages,		Daily, monthly, semi-annual and final exams

			disadvantages, limitations, uses) ii. Study models (preparation, advantages, disadvantages, uses) Handling of dental cast iii. cephalometrics (development, cephalostat, advantages, disadvantages, limitations, uses, tracing and landmarks) iv. Soft tissue analysis, Digitizing		
٦ + ٥	٢		v. Photography vi. 3D imaging d. Consent form e. treatment planning: preventive, interceptive, and corrective orthodontics		Daily, monthly, semi-annual and final exams
٧	١		Treatment of medically compromised patient		
٨	١		Orthodontic Indices		Daily, monthly, semi-annual and final exams
١٠ + ٩	٢		Vertical Plane Discrepancy :and crossbite a. Deep bite (types, etiology, treatment, skeletal vs. dental) b. Open bite (types, etiology, treatment, skeletal vs. dental)		Daily, monthly, semi-annual and final exams
١٢ + ١١	٢		c. Cross bite and scissors bite (types, etiology, treatment, skeletal vs. dental) c. Cross bite and scissors bite (types, etiology, treatment, skeletal vs. dental)		Daily, monthly, semi-annual and final exams
١٣	١		Crowding, spacing, space need:		Daily, monthly, semi-annual and final exams

			a. Types of crowding (primary, secondary and tertiary)		
١٤	١		b. Space analysis (in permanent and mixed dentition, space required and potential space, methods, Bolton's ratio)		Daily, monthly, semi-annual and final exams
١٦ + ١٥	٢		c. Space creation (molar distalization, expansion, extraction, incisor proclination, proximal stripping, derotation and uprightening) d. Closure of spaces (molar protraction, incisor retraction, conservative)		Daily, monthly, semi-annual and final exams
١٧	١		e. Teeth extraction in orthodontics (Types: enforced, therapeutic, Wilkinson, balancing and compensating extractions) (indications, advantages, disadvantages for each tooth) f. Serial extraction (definition, indications, procedure, advantages, limitations)		Daily, monthly, semi-annual and final exams
١٨	١		Treatment of common local factors: Including definition, prevalence, etiology, types, effect on occlusion, and treatment (with emphasis maxillary canine): a. Extra-teeth (supernumerary) and missing teeth (hypodontia)		Daily, monthly, semi-annual and final exams
١٩	١		b. Early loss of deciduous teeth(space maintainers and space regainers) c. Retained deciduous teeth, delayed eruption of permanent teeth, impacted teeth, ankylosis		Daily, monthly, semi-annual and final exams
٢١ + ٢٠	٢		d. Abnormal eruptive behavior (displacement, transposition)		Daily, monthly, semi-annual and final exams

			e. Large frenum (labial and lingual) f. Bad oral habits		
٢٢	١		Treatment of general factors: a. Class I treatment (etiology, skeletal and soft tissue pattern, dental factors, bimaxillary proclination, treatment methods and time; new orthodontic approach)		Daily, monthly, semi-annual and final exams
٢٤ + ٢٣	٢		b. Class II div. 1 treatment (etiology, skeletal and soft tissue pattern, dental factors, habits, treatment methods and time) c. Class II div. 2 treatment (etiology, skeletal and soft tissue pattern, dental factors, treatment methods and time)		Daily, monthly, semi-annual and final exams
٢٥	١		d. Class III treatment (etiology, skeletal and soft tissue pattern, dental factors, treatment methods and time)		Daily, monthly, semi-annual and final exams
٢٦	١		Treatment of adults Adjunctive orthodontic treatment, Comprehensive orthodontics for adults, problems that are specific to adult patients Orthodontic management of patients with periodontal disease:		Daily, monthly, semi-annual and final exams
٢٧	١		orthognathic surgery (presurgical orthodontics, treatment planning, surgical procedures, postsurgical orthodontics); distraction osteogenisis		Daily, monthly, semi-annual and final exams
٢٩+٢٨	٢		Cleft lip and palate (Embryology, classification, orofacial effects) Treatment of Cleft lip and palate		Daily, monthly, semi-annual and final exams

٣٠	١		Digital orthodontics (digital approach in orthodontic diagnosis and treatment)		Daily, monthly, semi-annual and final exams

433. Course Evaluation

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

434. Learning and Teaching Resources

Required textbooks (curricular books, if any)	
Main references (sources)	An Introduction to Orthodontics 5th Edition Simon J. Littlewood and Laura Mitchell 2019. Orthodontics: Principles and Practice: Principles a Practice 2nd ed. Edition Phulari 2017
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	