



Ministry of Higher Education and Scientific Research
Supervision and Scientific Evaluation Authority
Quality Assurance and Academic Accreditation Directorate
ALAyen Iraqi University
College of Dentistry



Academic Program Description Form 2024-2025

University Name : ALAyen University

College of Dentistry

Scientific Department / Dentistry

Final Certificate Name : Bachelor's Degree in Dental Surgery

Academic System: Annual

Description Preparation Date : 3/9/2024

Signature

Vice Dean for Scientific Affair

Prof. Dr. Jabbar Abbas Ahmed Al-Saaidi



Ass. Prof. Dr. Ihsan Abdullah Kamil
Dean's Approval

Reviewed by

Quality Assurance and University Performance Division:

Ass. Prof. Dr. Adel Ameen Al-Makhlalati

Date:

3/9/2024

Signature:

1-Program Vision

The College of Dentistry wishes to be a leading institution in the field of dental medical education, seeking academic and professional excellence through:

- 1- Achieving academic leadership: Providing innovative and advanced education in line with the latest scientific developments in the field of dentistry.
- 2- Supporting scientific research: Promoting and developing scientific research that contributes to scientific and technical progress.
- 3- Community Service: Providing distinguished health care services to community members and contributing to the promotion of public health.
- 4- International cooperation: Building partnerships with international educational and research institutions to promote scientific exchange

2-Program Mission

- 1- Provide high-quality dental education that meets national and international standards.
- 2- Preparing qualified and highly qualified graduates who are able to provide distinguished health care in the field of dentistry
- 3- Encouraging scientific research and innovation to enhance knowledge and develop dental practices.
- 4- Serving the community by providing health care and supporting community activities.
- 5- Promoting ethical and professional values in the field of dentistry.

2-Program Mission

3– Program Objectives

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- 1Develop clinical skills: Provide students with the clinical knowledge and skills necessary to provide comprehensive and effective patient care.
 - 2– Promote scientific research Encourage students and faculty members to engage in research activities that contribute to improving dental practices.
 - 3– Commitment to professional ethics: Teaching students the importance of adhering to professional ethics and human values in all aspects of their work.
 4. . .Effective communication Develop effective communication skills with patients, colleagues and medical team members.
 5. Lifelong learning encourage students to pursue continuing education and professional development throughout their careers.

7 .Program Description				
Credit hours		Course Name	Course or Course Code	Year / Level
practical	theoretical			
60	30	Human) (Anatomy	101AN	The first
60	0	Computer) (Sciences	103CS	
60	30	Dental) (Anatomy	104DA	
	30	Human Rights	105HR	
60	60	Medical) (Chemistry	106CH	
60	60	Medical () (Physics	107PS	
60	60	(Biology)	108BL	

	30	English Language)	109EL	The second
60	30	Dental) (Material	209DM	
120	30	(Prosthodontics)	210PR	

120	60	(Oral Histology and) Embryology	215OH 211EL	
60	60	) Biochemistry(	212BC	
60	60	General () Histology	213GH	
60	60	General () Physiology	214PH	
	30	Computer ((Sciences	203CS	
60	30	) Anatomy(	201AN	
60	60	(Microbiology)	316MB	Third Year
60	60	) Pharmacology(	317PC	
60	30	Community () Dentistry	318CM	
120	60	Conservative () dentistry	319CV	
60	30	Dental) Radiology)	320RL	

60	60	General Pathology	321PA	
60	30	Oral Surgery	322OS	
60	30	Prosthodontics	310PR	
75	30	General Medicine	423GM	Fourth
75	30	General Surgery	424GS	
150	30	Oral Surgery	422OS	
150	30	Conservative Dentistry	419CV	
90	60	Oral Pathology	425OP	
150	30	(Orthodontic)	426OD	
0	30	Pedodontic	427PE	
75	30	Periodontics	428PT	
75	30	Prosthodontics	410PR	
150	30	Conservative Dentistry	519CV	Fifth
75	30	Oral Medicine	529OM	
150	30	Oral Surgery	522OS	
37.5	30	(Pedodontics)	530PAPD	

37.5	30	Prevention	531PD	
150	30	Prosthodontics	510PR	
75	30	Orthodontics	526OD	
75	30	Periodontics	528PT	

knowledge

4- Knowledge of recent developments in the field of biomedicine and their impact on dental practice, including the development of medical materials and devices. 5- Comprehensive knowledge of basic and advanced care and management skills, and the application of behavioral sciences and .communication skills in clinical dentistry 6- Understanding of medical, legal, and ethical principles in the .dental profession	1. Recognize the importance of biomedical sciences, which form the basis for understanding human growth, development, and health. 2. Understand the concepts of oral biology, including knowledge of the form and function of teeth and associated structures in health and disease. 3. Understand the etiology, pathophysiology, diagnosis, prevention, and treatment of oral diseases, providing the student with the comprehensive knowledge needed to develop a comprehensive treatment plan for the patient.
Skills	
.3- Promote a sustained and focused focus on the principle of lifelong learning to continually advance the profession. 4-Graduates must demonstrate a high level of ability to gather, analyze, and integrate theoretical information to provide appropriate oral health care procedures .	1 - Enhancing professional ethics and patient care among graduates. 2 - Providing students with problem-solving and critical thinking skills.
	1- Thinking skill according to the student's ability (let 3- The student's awareness of the need to balance freedom and responsibility. 4- The skill of making the right decision for the patient's benefit, based on logical thinking. The goal of this skill is for the student to believe in what is tangible (the student's ability), understand when, what, and how to think, and work to improve the ability to think rationally. 2- Critical thinking skill, which aims to present a problem, analyze it logically, and arrive at the desired solution.

9-Teaching and Learning Strategies

- .Delivering lectures –
- .Providing students with lectures on the college's website –
- .Laboratory experiments –
- .Self-study –
- .Educational clinics –
- .Educational films –
- .Projectors and digital cameras –

10-Assessment Methods

Theoretical examinations.

- Oral examinations.

- Laboratory practical examinations.

- Mannequin practical examinations.

- Patient practical examinations.

- Reports.

- Evaluation of students' performance in the final year's graduation project, their ability to apply the required knowledge, and evaluation of the project's outcomes.

- Evaluation of students' performance in relevant courses.

-Evaluation of student interactions with patients, faculty, and clinical staff is part of the ongoing assessment in clinical rotations .

- - Use of educational models.
- -Training courses and workshops.
- -Preclinical and applied clinical education.
- -Student groups.
- -Online classes.
- -As part of the curriculum, topics on communication and interpersonal skills, professional ethics, and practice management are added.
- -Assign a group of students to undertake projects to encourage and develop interpersonal interactions.
- -Continuously monitor professional attitudes and adhere to the rules and regulations of the college's authority.

Academic Staff						
Academic Title						
Designation	Special Requirements and Skills (if any)"		Specialization		Academic Title	رتبة
			Special	General		
Permanent Staff			Oral Medicine	Dentistry	Asst. Prof. Dr. Ihsan Abdullah Kamil	1
Permanent Staff			Dental Prosthodontics	Dentistry	Asst. Prof. Dr. Hasan Salim Sikkina	2
Permanent Staff			Dental Prosthodontics	Dentistry	Asst. Prof. Dr. Eimal Jamal Aldin Rashid	3
Permanent Staff			Oral and Maxillofacial Surgery	Dentistry	Asst. Prof. Dr. Ayman Mohammed Abdullatif	4
Permanent Staff			Computer Networks	Computer Science	Prof. Dr. Naseer Ali Hussein	5
Permanent Staff			Physiology	Biology	Prof. Dr. Zainab Ibrahim Mohammed	6
Permanent Staff			Laser Physics	Physics	Asst. Prof. Dr. Adel Ameen Al-Makhlalati	7
Adjunct Lecturer			Dental Prosthodontics	Dentistry	Asst. Prof. Dr. Ihab Nabil Safi	8

Adjunct Lecturer			Restorative Dentistry	Dentistry	Asst. Prof. Dr. Hamed Hamed Ali	9
Adjunct Lecturer			Biology	Biology	Asst. Prof. Dr. Enas Razzaq Kazem	10
Adjunct Lecturer			Oral Surgery	Dentistry	Assist. Dr. Nibras Hamdan Jassim	11
Permanent Staff			Oral and Maxillofacial Surgery	Dentistry	Assist. Dr. Mahmoud Hanafy Mahmoud	12
Permanent Staff			Biochemistry	Chemistry	Assist. Dr. Haider Hameed Kazem	13
Permanent Staff			Dental Materials	Dentistry	Assist. Dr. Ahmed Mohammed Abdulrahman	14
Permanent Staff			Dental Prosthodontics	Dentistry	Assist. Dr. Doaa Ayman Mohammed	15
Permanent Staff			Pharmacology	Pharmacy	Assist. Dr. Ruaa Yasser Al-Tayyib	16
Permanent Staff			Periodontology	Dentistry	Lect. Mohammed Israa Kayali	17
Permanent Staff			Orthodontics	Dentistry	Lect. Abdelhadi Osama Kanj	18
Permanent Staff			Pediatric Dentistry	Dentistry	Lect. Batoul Faisal Wajeih	19

Permanent Staff			Orthodontics	Dentistry	Lect. Noor Dhergham Youssef	20
Permanent Staff			Oral Surgery	Dentistry	Lect. Amer Osama Kanj	21
Permanent Staff			Dental Prosthodontics	Dentistry	Lect. Salam Khalil Rasheed	22
Permanent Staff			Restorative Dentistry	Dentistry	Lect. Mohammed Jiyad Huraiss	23
Permanent Staff			Oral Pathology	Dentistry	Lect. Mohammed Talib Muttashar	24
Permanent Staff			Restorative Dentistry	Dentistry	Lect. Hesham Saado Bouhassan	25
Permanent Staff			Periodontology	Dentistry	Lect. Hussam Sami Ismail	26
Permanent Staff			Preventive Dentistry	Dentistry	Lect. Wissam Rasool Jalawi	27
Permanent Staff			Chemistry	Chemistry	Lect. Montathar Fareed Ramadan	28
Permanent Staff			Clinical Chemistry	Chemistry	Lect. Hala Aqeel Abdulrazzaq	29
Permanent Staff			Dental Radiology	Dentistry	Lect. Massar Abdulkhaleq Abduljaleel	30
Permanent Staff			Oral Histology	Dentistry	Lect. Ghazwan Hassan Jassim	31
Permanent Staff			Laser Physics	Physics	Lect. Hassanein Zaki Odeh	32
Permanent Staff			Dental Prosthodontics	Dentistry	Lect. Naseem Ghazi Bouhasson	33

	Permanent Staff			Microbiology	Medical Laboratory Techniques	Lect. Hadeer Ghazi Kazem	34
	Permanent Staff			Microbiology	Biology	Lect. Tabarak Rabie Latifa	35
	Permanent Staff			Ancient History	History	Lect. Mustafa Khammat Kareem	36
	Permanent Staff			Molecular Biology	Medical Laboratory Techniques	Lect. Narmeen Abdulkarim Maseer	37
	Permanent Staff			Biochemistry	Chemistry	Lect. Ali Aqeel Hameed	38
	Permanent Staff			Medical Biology	Medical Laboratory Techniques	Lect. Wafa Abdulkazem Issa	39

Orientation of New Faculty Members

The process used to orient new, visiting, full-time, and part-time faculty members at both the institutional and departmental levels is briefly described as follows

Professional Development for Faculty Members

Faculty Professional Development
Negotiation and Persuasion: The student should be capable of influencing, persuading, and engaging others in discussions to reach an agreement.

Leadership: The student should possess the ability to lead, motivate, and guide others.

Work Autonomy: The student should demonstrate responsibility and the capacity to work independently under various conditions.

12– Admission Criterion

Admission criteria include students who have achieved a specific cumulative GPA according to the central admission system. In addition, candidates are selected based on their physical, mental, and social capabilities to manage any medical situation or clinical practice required by the program. Most dental schools require personal interviews with applicants to evaluate traits such as a desire to help others, self-confidence, the ability to face challenges, teamwork skills, and the capacity to work independently.

13– Main Information Resources for the Program

- 1- Official website of the college and the university
- 2-University catalog

3-Scientific books and resources specific to the colleg

Program Skills Framework															
Program Intended Learning Outcomes															
Values				Skills				Knowledge				Core or Elective	Course Name	Course Code	Year / Level
4	3	2	1	4	3	2	1	4	3	2	1				
✓	✓	✓	✓	✓	✓	✓	✓			✓	✓	Core Course	Human Anatomy	101AN	First- Year
✓	✓	✓	✓	✓	✓	✓	✓			✓	✓	Core Course	Computer Sciences	103CS	
		✓	✓				✓			✓	✓	Core Course	Dental Anatomy	104DA	
		✓	✓			✓	✓			✓	✓	Core Course	Human Rights	105HR	
✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	Core Course	Medical Chemistry	106CH	

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

													General Histology		
		✓	✓				✓			✓	✓	Core Course	General Physiology	214PH	
✓	✓	✓	✓	✓	✓	✓	✓			✓	✓	Core Course	Baath Crimes	203CB	
		✓	✓		✓	✓	✓			✓	✓	Core Course	Oral Histology		
✓	✓	✓	✓	✓	✓	✓	✓			✓	✓	Core Course	Anatomy	201AN	
		✓	✓		✓	✓	✓	✓	✓	✓	✓	Core Course	Microbiology	316MB	Third Year
		✓	✓			✓	✓	✓	✓	✓	✓	Core Course	Pharmacology	317PC	
	✓	✓	✓		✓	✓	✓		✓	✓	✓	Core Course	Community Dentistry	318CM	

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

			✓		✓	✓	✓	✓	✓	✓	✓	Core Course	Oral Surgery	422OS	
		✓	✓			✓	✓		✓	✓	✓	Core Course	Conservative Dentistry	419CV	
			✓		✓	✓	✓		✓	✓	✓	Core Course	Oral Pathology	425OP	
			✓				✓		✓	✓	✓	Core Course	Orthodontic	426OD	
	✓	✓	✓		✓	✓	✓		✓	✓	✓	Core Course	Pedodontics	427PE	
	✓	✓	✓		✓	✓	✓		✓	✓	✓	Core Course	Periodontics	428PT	
✓	✓	✓	✓		✓	✓	✓		✓	✓	✓	Core Course	(Prosthodontics)	410PR	
		✓	✓		✓	✓	✓	✓	✓	✓	✓	Core Course	Conservative Dentistry	519CV	Fifth Year
			✓		✓	✓	✓		✓	✓	✓	Core Course	Oral Medicine	529OM	
		✓	✓	✓	✓	✓	✓			✓	✓	Core Course	Oral Surgery	522OS	
✓	✓	✓	✓		✓	✓	✓		✓	✓	✓	Core Course	Pedodontics	530PAPD	

		✓	✓		✓	✓	✓		✓	✓	✓	Core Course	Prevention	531PD	
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Core Course	Prosthodontics	510PR	
			✓			✓	✓				✓	Core Course	Orthodontics	526OD	
	✓	✓	✓		✓	✓	✓		✓	✓	✓	Core Course	Periodontics	528PT	

1. Course Name:	
Human Anatomy	
2. Course Code:	
101AT	
3. Semester / Year:	
2025–2024	
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	
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 complex anatomical structures and their relationships.
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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 System	Theoretical lecture using PowerPoint presentation	Daily, monthly, semi-annu and final exams
5	1		Basic Structures: Nervous System, Mucous Membranes, Sero Membranes	Theoretical lecture using PowerPoint presentation	Daily, monthly, semi-annu and final exams
6&7	2		Skeletal system of the body: Skull Cranial Bones	Theoretical lecture using PowerPoint presentation	Daily, monthly, semi-annu and final exams

8&9	2		Skeletal system of the body: Skull Facial Bones	Theoretical lecture using PowerPoint presentation	Daily, monthly, semi- annu and final exams
10&11	2		External Views of 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
2224 , 2	3	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 Low extremities		and final exams
29&30	2		Abdominal cavit 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 7 th edition. 2. Netter's head and neck anatomy for dentistry 2 nd edition 2012.
Main references (sources)	
Recommended books and references (scientific journals, reports...)	1.Snell Clinical anatomy 7 th edition. 2. Netter's head and neck anatomy for dentistry 2 nd edition 2012.
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: 2025-2024

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

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.....
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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.
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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 computer with	Daily, monthly, semi-annual and final exams
5+6	1	Online conferencing+ Introduction about Windows /A look at Windows 10/Stating Windows 10/Working with a windows Program+Working	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 computer with	Daily, monthly, semi-annual and final exams
9+10	1	A look at Control Panel+ Windows Explorer	Computer	a smart board	Daily, monthly, semi-annual and final exams
11+12	1	Libraries+ Introduction about Microsoft Word2016 A look at Microsoft Word /Editing Document	Computer	Using a computer 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 computer with	Daily, monthly, semi-annual and final exams
15+16	1	Inserting Graphic Elements Controlling page Appearance	Computer	a smart board	Daily, monthly, semi-annual and final exams
17+18	1	Introduction about Excel /A Look at Microsoft Excel+ Modifying Worksheet /performing Calculations	Computer	Using a computer with	Daily, monthly, semi-annual and final exams
19	1	Formatting a worksheet/ Developing a work book/ Printing Workbook Contents/Customizing Layout	Computer	a smart board	Daily, monthly, semi-annual and final exams
20+21	1	Introduction about Microsoft Access/ A look at Microsoft Access+ Creating Data tables /properties of the fields	Computer	Using a computer with	Daily, monthly, semi-annual and final exams
23	1	Querying the database/Designing Forms/Producing reports	Computer	a smart board	Daily, monthly, semi-annual and final exams
24+25	1	Introduction about Microsoft PowerPoint/starting power point2016	Computer	Using a computer with	Daily, monthly, semi-annual and final exams
26	1	Formatting text/Using graphics Text	Computer	a smart board	Daily, monthly, semi-annual

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

1. Course Name: Dental Anatomy

2. Course Code: 104DA

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

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' psychomotor 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 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.
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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 .
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10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	1	1. A thorough knowledge of dental anatomy, morphology and function of each tooth. 2. special emphasis of tooth morphology and its clinical implication in the dental practice. 3. Students acquire knowledge to identify	Introduction Nomenclature Heterodont 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	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams

			Aspect).		
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
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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 Root and Crown 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
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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 1 st Premolar.	2

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

Course Name: Human Rights and Democracy	25.
Course Code:105HR	26.

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27.	Semester / Year:2025- 2024
Description Preparation Date: 6/5/2025	28.
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	
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..
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
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34. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2	Definition of human rights	Human Rights	Theoretical lecture using Power Point	Daily, monthly, semiannual and final exams
2	2	The historical development of the idea of human rights	Human Rights	Theoretical lecture using Power Point	Daily, monthly, semiannual and final exams
3	2	The idea of human rights in heavenly laws	Human Rights	Theoretical lecture using Power Point	Daily, monthly, semiannual and final exams
4	2	The development of human rights in the Middle Ages and modern	Human Rights	Theoretical lecture using Power Point	Daily, monthly, semiannual and final exams

5	2	Public freedoms / definition of public freedoms	Human Rights	Theoretical lecture using Power Point	Daily, monthly, semiannual and final exams
6	2	Types of public rights and freedoms	Human Rights	Theoretical lecture using Power Point	Daily, monthly, semiannual and final exams
7	2	Human rights in national, global and regional declarations of rights	Human Rights	Theoretical lecture using Power Point	Daily, monthly, semiannual and final exams
8	2	Human Rights Declarations in Britain	Human Rights	Theoretical lecture using Power Point	Daily, monthly, semiannual and final exams

9	2	Declaration of Human Rights in the United States of America	Human Rights	Theoretical lecture using Power Point	Daily, monthly, semiannual and final exams
10	2	Declaration of Human Rights in France	Human Rights	Theoretical lecture using Power Point	Daily, monthly, semiannual and final exams
11	2	Universal Declaration of Human Rights	Human Rights	Theoretical lecture using Power Point	Daily, monthly, semiannual and final exams
12	2	Human rights in regional conventions	Human Rights	Theoretical lecture using Power Point	Daily, monthly, semiannual and final exams
13	2	Arab Charter on Human Rights	Human Rights	Theoretical lecture using Power Point	Daily, monthly, semiannual and final exams
14	2	NGOs and Human Rights	Human Rights	Theoretical lecture using Power Point	Daily, monthly, semiannual and final exams
15	2	Human rights guarantees	Human Rights	Theoretical lecture using Power Point	Daily, monthly, semiannual and final exams
16	2	Democratic system	Democracy	Theoretical lecture using Power Point	Daily, monthly, semiannual and final exams
17	2	Definition of democracy	Democracy	Theoretical lecture using Power Point	Daily, monthly, semiannual and final exams
18	2	Direct Democracy	Democracy	Theoretical lecture using Power Point	Daily, monthly, semiannual and final exams
19	2	Institutions of direct democracy	Democracy	Theoretical lecture using Power Point	Daily, monthly, semiannual and final exams
20	2	Representative Democracy	Democracy	Theoretical lecture using Power Point	Daily, monthly, semiannual and final exams
21	2	Characteristics of representative democracy	Democracy	Theoretical lecture using Power Point	Daily, monthly, semiannual and final exams
22	2	Representative Democracy in Iraq	Democracy	Theoretical lecture using Power Point	Daily, monthly, semiannual and final exams

23	2	Semi-direct democracy	Democracy	Theoretical lecture using Power Point	Daily, monthly, semiannual and final exams
24	2	Images of semi-direct democracy	Democracy	Theoretical lecture using Power Point	Daily, monthly, semiannual and final exams
25	2	Popular Proposal	Democracy	Theoretical lecture using Power Point	Daily, monthly, semiannual and final exams
26	2	Removal of the deputy	Democracy	Theoretical lecture using Power Point	Daily, monthly, semiannual and final exams
27	2	Popular solution	Democracy	Theoretical lecture using Power Point	Daily, monthly, semiannual and final exams
28	2	Removal of the President of the Republic	Democracy	Theoretical lecture using Power Point	Daily, monthly, semiannual and final exams
29	2	Popular referendum	Democracy	Theoretical lecture using Power Point	Daily, monthly, semiannual and final exams
30	2	Popular objection	Democracy	Theoretical lecture using Power Point	Daily, monthly, semiannual 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)

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

38. Course Code: 106CH

39. Semester / Year:2025-2024

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/ 4 units of study

44. Course Objectives

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|----------------------|--|
| Course Object | <ul style="list-style-type: none"> 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 through discussions.
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46. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2	Acid, Base and Salt	Medical Chemistry	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
2	2	salts, preparation of salts	Medical Chemistry	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams

1. Course Name: Dental Anatomy

2. Course Code: 104DA

3. Semester / Year: 2025–2024

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

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' psychomotor 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 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.
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9. Teaching and Learning Strategies

Strategy	4. Provide the students with skills of differentiate between different teeth according to their principles identifying features. 5. Provide the students with skills of carving tooth anatomy on wax block. 6. Prepare the students for skills to recreate proper tooth form in restorative clinical procedures .
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10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
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1	1	4. Athorough knowledge of dental anatomy, morphology and function of each tooth. 5. special emphasis of tooth morphology and and its clinical implication in the dental practice. 6. Students acquire knowledge to identify	Introduction Nomenclature Heterodont 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. 6. A thorough knowledge of sequential Order of teeth according to their eruption times. 7. presenting the teaching topics in a way to be understandable to the students.	4. Universal notation system. 5. Palmer notation system. 6. 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 F. Tooth Root Surface G. Periodontal ligament H. Gingiva I. 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 Root and Crown 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
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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 D. Class II Malocclusion E. 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 1 st Premolar.	2

9	Practical Training of Carving of P. Max. Right 1 St Premolar.	2
10	Practical Exam. of Carving of P. Max. Right 1 St Premolar.	2
11	Description & Carving of the Buccal & Mesial & Occlusal Aspects & Finishing of P. Mand. Right 1 St Premolar.	2
12	Practical Training. Of Carving of P. Mand. Right 1 St Premolar.	2
13	Practical Exam. Of Carving of P. Mand. Right 1 St Premolar.	2
14	Description & Carving of the Buccal & Mesial & Occlusal Aspects & Finishing of P. Max. Right 1 St molar.	2
15	Practical Training of Carving of P. Max. Right 1 St molar.	2
16	Practical Exam. of Carving of P. Max. Right 1 St molar.	2
17	Description & Carving of the Buccal & Mesial & Occlusal Aspects & Finishing of P. Mand. Right 1 St molar.	2
18	Practical Training of Carving of P. Mand. Right 1 St molar.	2
19	Practical Exam. of Carving of P. Mand. Right 1 St 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)	3. Woelfel's dental anatomy, its relevance to dentistry. by Rickne C Scheid. 4. 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:105HR

Semester / Year:2025-2024 27.

Description Preparation Date: 6/5/2025 28.

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

Course Objectives 32.

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..
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Teaching and Learning Strategies 33.

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
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34. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2	Definition of human rights	Human Rights	Theoretical lecture using Power Point	Daily, monthly, semiannual and final exams

2	2	The historical development of the idea of human rights	Human Rights	Theoretical lecture using Power Point	Daily, monthly, semiannual and final exams
3	2	The idea of human rights in heavenly laws	Human Rights	Theoretical lecture using Power Point	Daily, monthly, semiannual and final exams
4	2	The development of human rights in the Middle Ages and modern	Human Rights	Theoretical lecture using Power Point	Daily, monthly, semiannual and final exams

5	2	Public freedoms / definition of public freedoms	Human Rights	Theoretical lecture using Power Point	Daily, monthly, semiannual and final exams
6	2	Types of public rights and freedoms	Human Rights	Theoretical lecture using Power Point	Daily, monthly, semiannual and final exams
7	2	Human rights in national, global and regional declarations of rights	Human Rights	Theoretical lecture using Power Point	Daily, monthly, semiannual and final exams
8	2	Human Rights Declarations in Britain	Human Rights	Theoretical lecture using Power Point	Daily, monthly, semiannual and final exams
9	2	Declaration of Human Rights in the United States of America	Human Rights	Theoretical lecture using Power Point	Daily, monthly, semiannual and final exams
10	2	Declaration of Human Rights in France	Human Rights	Theoretical lecture using Power Point	Daily, monthly, semiannual and final exams
11	2	Universal Declaration of Human Rights	Human Rights	Theoretical lecture using Power Point	Daily, monthly, semiannual and final exams
12	2	Human rights in regional conventions	Human Rights	Theoretical lecture using Power Point	Daily, monthly, semiannual and final exams
13	2	Arab Charter on Human Rights	Human Rights	Theoretical lecture using Power Point	Daily, monthly, semiannual and final exams
14	2	NGOs and Human Rights	Human Rights	Theoretical lecture using Power Point	Daily, monthly, semiannual and final exams
15	2	Human rights guarantees	Human Rights	Theoretical lecture using Power Point	Daily, monthly, semiannual and final exams
16	2	Democratic system	Democracy	Theoretical lecture using Power Point	Daily, monthly, semiannual and final exams
17	2	Definition of democracy	Democracy	Theoretical lecture using Power Point	Daily, monthly, semiannual and final exams

18	2	Direct Democracy	Democracy	Theoretical lecture using Power Point	Daily, monthly, semiannual and final exams
19	2	Institutions of direct democracy	Democracy	Theoretical lecture using Power Point	Daily, monthly, semiannual and final exams
20	2	Representative Democracy	Democracy	Theoretical lecture using Power Point	Daily, monthly, semiannual and final exams
21	2	Characteristics of representative democracy	Democracy	Theoretical lecture using Power Point	Daily, monthly, semiannual and final exams
22	2	Representative Democracy in Iraq	Democracy	Theoretical lecture using Power Point	Daily, monthly, semiannual and final exams

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23	2	Semi-direct democracy	Democracy	Theoretical lecture using Power Point	Daily, monthly, semiannual and final exams
24	2	Images of semi-direct democracy	Democracy	Theoretical lecture using Power Point	Daily, monthly, semiannual and final exams
25	2	Popular Proposal	Democracy	Theoretical lecture using Power Point	Daily, monthly, semiannual and final exams
26	2	Removal of the deputy	Democracy	Theoretical lecture using Power Point	Daily, monthly, semiannual and final exams
27	2	Popular solution	Democracy	Theoretical lecture using Power Point	Daily, monthly, semiannual and final exams
28	2	Removal of the President of the Republic	Democracy	Theoretical lecture using Power Point	Daily, monthly, semiannual and final exams
29	2	Popular referendum	Democracy	Theoretical lecture using Power Point	Daily, monthly, semiannual and final exams
30	2	Popular objection	Democracy	Theoretical lecture using Power Point	Daily, monthly, semiannual 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)

Main references (sources)

Recommended books and references (scientific journals, reports...)

Electronic References, Websites

1 .Course Name :Medical Physics
2. Course Code: Medical Physics 107PS

3. Semester / Year:

2025–2024

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

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.
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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
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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, Accurac Precision, False Positive, False Negative.	Medical Physics	Theoretical part done using power point	Examination is Quizzes, Semester and final year
5-6	2	Force on & in body: Static forces :(type of levers with medical examples). Dynamic forces (Centrifuge) 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, Temperature Dentistry, Thermal expansion (Linear, Area, Volume Thermal Expansion), Thermometry, Heat therapy, 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. Efficiency heat losses from the body. Anaerobic phase and aerobic phase. Hypothalamus (body 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 pressure, gauge pressure, negative pressure, unit of pressure. Measurement of pressure in the body (Manometer). Pressure inside the skull. Eye pressure.	Medical Physics	Theoretical part done using power point	Examination is Quizzes, Semester and final year
	2		Medical Physics	Theoretical part done using power point	Examination is Quizzes, Semester and final year

19-20	2	Focusing element of the eye (cornea, lens). Element of the eye (pupil, aqueous humor, vitreous humor, sclera). Visual acuity, Snellen chart, optical density.	Medical Physics	Theoretical part done using power point	Semester and final year
21-22	2	Physics of diagnostic Xray: 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).	Medical Physics	Theoretical part done using power point	Examination is Quizzes, Semester and final year
23-24		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.			
25-26		Physics of radiation therapy: The dose units (Rad and Gray). Principles of radiation therapy. Brach therapy, quality factor (QF).			
27-28					
29-30					

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)	
references and books Recommended (scientific journals, reports...)	physics for scientists and engineer, Raymond A, serway, 1987.
Electronic References, Websites	

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 ohmic and non-ohmic 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 ohmic and non-ohmic 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 1 st 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 2 nd 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 2 nd 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 pre daily oral, monthly, or written exams, report

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)	
references and books Recommended (scientific journals, reports...)	physics for scientists and engineers Raymond A, serway, 198
Electronic References, Websites	

61. Course Name: Medical biology

62. Course Code: 108 BL

63. Semester / Year:2025–2024

64

Description Preparation Date:3–5–2025 64.

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

66. Number of Credit Hours (Total) / Number of Units (Total): 60hr /4 unit

Course Objectives 68.

Course Objectives

- Introduction to general biology
- Study of cell and tissue science
- Study of medical parasitology

Teaching and Learning Strategies 69.

Strategy

- Lecture strategy [power point (data show)]
- E-learning strategy
- Discussion strategy

Course Structure 70.

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	2	1
Short exams, semester exams, and the final exam	A theoretical lecture using Power Point	Medical Biology	Bacteriology	2	2
Short exams, semester exams, and the final exam	A theoretical lecture using Power Point	Medical Biology	Human Genetics (part 1)	2	3
Short exams, semester exams, and the final exam	A theoretical lecture using Power Point	Medical Biology	Human Genetics (part 2)	2	4
Short exams, semester exams, and the final exam	A theoretical lecture using Power Point	Medical Biology	Immunity	2	5
Short exams, semester exams, and the final exam	A theoretical lecture using Power Point	Medical Biology	Cell structure	2	6
Short exams, semester exams, and the final exam	A theoretical lecture using Power Point	Medical Biology	Cell organelle	2	7
Short exams, semester exams, and the final exam	A theoretical lecture using Power Point	Medical Biology	Epithelial tissue	2	8
Short exams, semester exams, and the final exam		Medical Biology		2	

	A theoretical lecture using Power Point		Glandular tissue		9
Short exams, semester exams, and the final exam	A theoretical lecture using Power Point	Medical Biology	Proper connective tissue	2	10
Short exams, semester exams, and the final exam	A theoretical lecture using Power Point	Medical Biology	Specialized connective tissue	2	11
Short exams, semester exams, and the final exam	A theoretical lecture using Power Point	Medical Biology	Muscular tissue	2	

Short exams, semester exams, and the final exam	A theoretical lecture using Power Point	Medical Biology	Nervous tissue	2	13
Short exams, semester exams, and the final exam	A theoretical lecture using Power Point	Medical Biology	Stem cells	2	14
Short exams, semester exams, and the final exam	A theoretical lecture using Power Point	Medical Biology	Exam	2	15
	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	2	16
Short exams, semester exams, and the final exam	A theoretical lecture using Power Point	Medical Biology	Cellular metabolism	2	17
Short exams, semester exams, and the final exam	A theoretical lecture using Power Point	Medical Biology	Cell division(mitosis)	2	18
Short exams, semester exams, and the final exam	A theoretical lecture using Power Point	Medical Biology	Cell division (meiosis)	2	19
Short exams, semester exams, and the final exam	A theoretical lecture using Power Point	Medical Biology	Cellular interaction (stable interaction)	2	20
Short exams, semester exams, and the final exam	A theoretical lecture using Power Point	Medical Biology	Cellular interaction (transient interaction)	2	21
Short exams, semester exams, and the final exam	A theoretical lecture using Power Point	Medical Biology	Introduction to biotechnology	2	
Short exams, semester exams, and the final exam	A theoretical lecture using Power Point	Medical Biology	Introduction to parasitology	2	23

Short exams, semester exams, and the final exam	A theoretical lecture using Power Point	Medical Biology	Protozoa:sarcodina	2	24
Short exams, semester exams, and the final exam	A theoretical lecture using Power Point	Medical Biology	Protozoa:flagellata	2	25
Short exams, semester exams, and the final exam	A theoretical lecture using Power Point	Medical Biology	Protozoa:ciliataand sporozoa	2	26
Short exams, semester exams, and the final exam	A theoretical lecture using Power Point	Medical Biology	Platyhelminthes:trematoda	2	27
Short exams, semester exams, and the final exam	A theoretical lecture using Power Point	Medical Biology	Platyhelminthes:cestoda	2	28
Short exams, semester exams, and the final exam	A theoretical lecture using Power Point	Medical Biology	Nematoda	2	29
Short exams, semester exams, and the final exam	A theoretical lecture using Power Point	Medical Biology	Exam	2	

71. Course Evaluation

Distributing the score out of 100 according to the tasks assigned to

15% midyear

daily and monthly exams, and practical requirements) 25% annual pursuit (

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 parasitology eight edition

	2- Textbook of Histology , (2020) by Leslie P. Gartner , Elsevier Health Sciences, Medical - 704 pages. 3- CELL BIOLOGY, Third edition. (2017) 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/1introduction https://www.cdc.gov/index.htm

Course Name: Medical biology	73.
Course Code: 108 BL	74.
Semester / Year:2025–2024	75.
Description Preparation Date:2–5–2025	76.
77. Available Attendance Forms: laboratories for practical material	
78. Number of Credit Hours (Total) / Number of Units (Total): 60hr /2 unit	
Course Objectives	80.

Course Objectives		• Introduction to general biology • Study of cell and tissue science • Study of medical parasitology
Teaching and Learning Strategies 81.		
Strategy	• Lecture strategy [power point (data show)] • E-learning strategy • Discussion strategy	
Course Structure 82.		

11 Course structure (practical aspect)

Evaluation method	Teaching method	Name of the unit/course or subject	Subject vocabulary	hours
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
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	
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
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	
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
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	
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

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 tissue	
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
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	

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
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	
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
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	
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

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	
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	<i>Giardia lamblia</i> and <i>Trichomonas</i> spp		
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	
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		
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	
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		

Short evaluation of the practical part, and the final exam	Explaining the theoretical part using power point and then applying the practical part	Medical biology	<i>Fasciola hepatica</i>	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	

and the final exam				
Short evaluation practical and the exam	Explain theoreti using po and then the pract	Med biol	<i>Echinococ granulosa</i>	2
Short exams, evaluation of the practical part, and the final exam	Explain theoreti using po and then the pract	Medica l biology	<i>Taenia sag</i>	2
Short evaluation practical and the exam	Explain theoreti using po and then the pract	Med biol	<i>Taenia solia</i>	2
Short exams, evaluation of the practical part, and the final exam	Explain theoreti using po and then the pract	Medica l biology	<i>Ancylstom</i>	2
Short evaluation practical and the exam	Explain theoreti using po and then the pract	Med biol	<i>Ascaris spp</i>	2
Short exams, evaluation of the practical part, and the final exam	Explain theoreti using po and then the pract	Medica l biology	<i>Enterobius vermiculari</i>	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 daily and monthly exams, and practical requirements) 20% 25% annual pursuit final practical exam 40% final theoretical exam				
84. Learning and Teaching Resources				

Required textbooks (curricular books, if a	Human biology n
Main references (sources)	1- 1-Paniker's Textbook of Medical parasitology eight edition(2018) 2- Textbook of Histology , (2020) by Leslie P. Gartner , Elsevier Health Sciences, Medical - 704 pages. 3- CELL BIOLOGY, Third edition. (2017) 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-andphysiology/pages/1-introduction https://www.cdc.gov/index.htm

1. Course Name: English	
2. Course Code: 109EL	
3. Semester / Year: 2025-2024	
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	
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
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9. Teaching and Learning Strategies

Strategy	Students Collaborative method Brainstorming Correlating images with the terms
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10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	1	Learning parts of medical terms composition	Prefixes & suffixes	Theoretical lectu	monthly Daily, and midterm exams
2	1	Learning English terms related to skin	Integumentary system	Theoretical lectu	Daily, monthly and midterm exams
3	1	Understanding English words related to muscles and movements	Muscular System	Theoretical lectu	Daily, monthly and midterm exams
4	1	Learning English terms related to respiratory system	Respiratory System	Theoretical lectu	Daily, monthly and midterm exams
5	1	Learning the Eng words concern diges the with system	Digestive System	Theoretical lectu	Daily, monthly and midterm exams
6	1	The students learn English terms in relation to nervous system	Nervous System	Theoretical lectu	Daily, monthly and midterm exams
7	1	The students learn English words in relation cardiovascular system	Cardiovascular System	Theoretical lectu	Daily, mont and midte exams

8	1	The students learn how to identify parts of blood and lymph component using English words	Blood and Lymph	Theoretical lectu	Daily, mont and midte exams
9	1	The students learn English words related to immune system	Immune System	Theoretical lectu	Daily, mont and midte exams

10	1	The students learn English terms related to glands their and secretions	Endocrine System	Theoretical lectu	Daily, mont and midte exams
11	1	The students learn English words to express five senses	Five Senses	Theoretical lectu	Daily, mont and midte exams
12	1	The students learn English terms related to reproductive and urinary system	Genitourinary System	Theoretical lectu	Daily, mont and midte exams
13	1	The student learn English terms related to dentistry	Dental Terminology Part	Theoretical lectu	Daily, mont and midte exams
14	1	The student learn English terms related to dentistry	Dental Terminology Par	Theoretical lectu t	Daily, mont and midte exams
15	1	The student learn English terms related to dentistry	Dental terminology Part	Theoretical lectu	Daily, monthly and midterm exams
16	1	The student learn how to present their ideas as small talks	Small Talk	Theoretical lectu	Daily, monthly and midterm exams
17	1	The students learn not to fall into common mistakes	Common Mistakes	Theoretical lectu	Daily, monthly and midterm exams
18	1	learn students The passive voice roles	Passive Voice	Theoretical lectu	Daily, monthly and midterm exams

19	1	The students learn the difference between direct and indirect speech	Direct and Indirect Speech	Theoretical lectu c	Daily, monthly and midterm exams
20	1	Students learn that words in English may have different synonyms	Synonyms	Theoretical lectu	Daily, monthly and midterm exams
21	1	Students learn how to use adjectives	Adjectives	Theoretical lectu	Daily, monthly and midterm exams
22	1	Students learn how to merge the quotation into their writing	Integrating a Quotation an Essay	Theoretical lectu	Daily, monthly and midterm exams
23	1	Students learn how to use prepositions	Prepositions in Eng Grammar with Example	Theoretical lectu s	Daily, monthly midterm exams
24	1	Students learn what does a certain phrases means	Idioms and Phrases	Theoretical lectu	Daily, monthly midterm exams
25	1	The students learn how to articulate an essay	Writing Assignments	Theoretical lectu	Daily, monthly midterm exams

26	1	The student learn how to write words in English without mistakes	Pronunciation rules	Theoretical lectu	Daily, monthly midterm exams
27	1	The students know the difference between past, present and future	Tenses	Theoretical lectu	Daily, monthly midterm exams
28	1	The students learn the synonyms of the words and their opposite	Synonyms and Antonym	Theoretical lect	uDaily, monthly midterm exams
29	1	Making the student understand how t rewrite the sentences without losing the meaning	Paraphrasing	Theoretical lect	uDaily, monthly midterm exams
30	1	Learn how to express the student knowledge in English words	Essay Writing Skills	Theoretical lect	uDaily, 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 (Charline Dofka)
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	

Course Name: Dental Materials 85.

Course Code: 209DM 86.

Semester / Year: 2025- 2025 87.

Description Preparation Date: 2025/5/5 88.

89. Available Attendance Forms: Lectures and Laboratory

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

Course Objectives 92.

physical, chemical and mechanical properties of materials used in dentistry

- learning necessary skills to manipulate these materials.

Course Objectives . Learning the

Teaching and Learning Strategies 93.

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 and chemical reactions undergone by these materials.
- Showing and describing the required equipment to prepare dental materials.
- Teaching the dental students how to use this 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, midyear 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, midyear and final year exams
3	1	Investment materials factors affecting setting time,setting expansion,strength,storage and manipulation of gypsum products,hygroscopic expansion.table with properties	Dental materials	Theoretical lecture	Quizzes, semester, midyear 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, midyear and final year exams
5	1	-Impression compound - Zinc oxide -eugenol	Dental materials	Theoretical lecture	Quizzes, semester, midyear and final year exams
6	1	Elastic impression material	Dental materials	Theoretical lecture	Quizzes, semester, midyear and final year exams
7	1	Elastomeric impression material	Dental materials	Theoretical lecture	Quizzes, semester, midyear 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 1- silicate cement. Disadvantages. 2-acrylic resin . Disadvantages	Dental materials	Theoretical lecture	Quizzes, semester, midyear and final year exams
9	1	composite filling materials. Composition and structure. Types of composite 1-according to methods of curing 2-classificatio based on size of filler particles / Filler content Properties	Dental materials	Theoretical lecture	Quizzes, semester, midyear 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, midyear and final year exams

		Low copper High copper -1 admix -2 Unicomposition 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 - 1 Dimensional changes . Factor favouring contraction . - 2 strength . Factors affecting strength . -1 effect of trituration -2 effect of Hg content . -3 effect of condensation . -4 effect of porosity . -5 effect of rate of hardening . - 3 Creep . Definition Effect of manipulative variable (for increase strength and low creep -4 Tarnish 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, midyear 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, midyear 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, midyear 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, midyear and final year exams
15	1	Non metallic denture base Polymers and polymerization Definition of polymer ,copolymer, 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, midyear and final year exams
16	1	Denture base resin Requirement for clinically acceptable denture base material Old materials used to construct denture The material of choice to use as denture base material Acrylic resin (polymethylmethacrylate) Why it is used nowadays Classification according to initiation reaction Composition of heat cure resin Methyl methacrylate monomer (properties) Polymer/monomer ratio	Dental materials	Theoretical lecture	Quizzes, semester, midyear 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 1-porosity 2-crazing 3-warpage Recent advance	Dental materials	Theoretical lecture	Quizzes, semester, midyear 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, midyear and final year exams
19	1	Temporary filling Definition, indication, Requirements, Types .	Dental materials	Theoretical lecture	Quizzes, semester, midyear and final year exams
20	1	Cements Classification of dental cements, Definition, Requirements	Dental materials	Theoretical lecture	Quizzes, semester, midyear and final year exams
21	1	Tissue conditioner Definition, Types, Requirements, indication. Soft liners Types: Requirements, indication, properties ,	Dental materials	Theoretical lecture	Quizzes, semester, midyear 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, midyear 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: 2025- 2024
100. Description Preparation Date: 2025/5/5
101. Available Attendance Forms: Laboratory
102. Number of Credit Hours (30) / Number of Units (

Course Objectives 104.

Course Objectives

- Learning the physical, chemical and mechanical properties of materials used in dentistry
- learning necessary skills to manipulate these materials.

Teaching and Learning Strategies 105.

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 and chemical reactions undergone by these materials.
- Showing and describing the required equipment to prepare dental materials.
- Teaching the dental students how to use this 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, midyear 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, midyear and final year exams
25	1	Investment materials factors affecting setting time, setting expansion, strength, storage and manipulation of gypsum products, hygroscopic	Dental materials	laboratory sessions	Quizzes, semester, midyear 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, midyear and final year exams
27	1	-Impression compound - Zinc oxide -eugenol	Dental materials	laboratory sessions	Quizzes, semester, midyear and final year exams
28	1	Elastic impression material	Dental materials	laboratory sessions	Quizzes, semester, midyear and final year exams
29	1	Elastomeric impression material	Dental materials	laboratory sessions	Quizzes, semester, midyear 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 1- silicate cement. Disadvantages. 2-acrylic resin . Disadvantages	Dental materials	laboratory sessions	Quizzes, semester, midyear and final year exams
31	1	composite filling materials. Composition and structure. Types of composite 1-according to methods of curing 2-classificatio based on size of filler particles / Filler content Properties	Dental materials	laboratory sessions	Quizzes, semester, midyear 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 -1admix -2Unicomposition Low copper alloy	Dental materials	laboratory sessions	Quizzes, semester, midyear and final year exams
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		Available as Setting reaction High copper alloy Admix alloy powder Setting reaction Unicom position alloy Setting reaction			
33	1	Properties of set amalgam - 1Dimensional changes . Factor favouring contraction . - 2strength . Factors affecting strength . -1effect of trituration -2effect of Hg content . -3effect of condensation . -4effect of porosity . -5effect of rate of hardening . - 3Creep . Definition Effect of manipulative variable (for increase strength and low creep -4Tarnish 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, midyear 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, midyear 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, midyear 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 ,copolymer, 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, midyear and final year exams
38	1	Denture base resin Requirement for clinically acceptable denture base material Old materials used to construct denture The material of choice to use as denture base material Acrylic resin (polymethylmethacrylate) Why it is used nowadays Classification according to initiation reaction Composition of heat cure resin Methyl methacrylate monomer (properties) Polymer/monomer ratio	Dental materials	laboratory sessions	Quizzes, semester, midyear 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 1-porosity 2-crazing 3- warpage Recent advance	Dental materials	laboratory sessions	Quizzes, semester, midyear 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, midyear and final year exams
41	1	Temporary filling Definition, indication, Requirements, Types .	Dental materials	laboratory sessions	Quizzes, semester, midyear and final year exams
42	1	Cements Classification of dental cements, Definition, Requirements	Dental materials	laboratory sessions	Quizzes, semester, midyear 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, midyear 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

Course Name: prosthodontics 109.

Course Code: PR210 110.

Semester / Year: 2025-2024 111.

Description Preparation Date: 6/5/2025 112.

Available Attendance Forms: Attendance in the classroom for the theoretical lectures 113.

Number of Credit Hours (Total) / Number of Units (Total): 30 hours/ 114. 120 credit units
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Course Objectives 116.

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.
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Teaching and Learning Strategies 117.

the smart	Strategy • Displaying the theoretical material and explaining it in detail on 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
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118. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
2 + 1	2		Introduction Complete denture	Theoretical lecture	Daily, monthly, midyear, and final exams
4 + 3	2		Anatomical landmarks Maxillary and Mandibular arch anatomical landmarks	Theoretical lecture	Daily, monthly, mid-year, and final exams
6 + 5	2		Complete denture impression	Theoretical lecture	Daily, monthly, mid-year, and final exams
8 + 7	2		Temporomandibular joint (TMJ)	Theoretical lecture	Daily, monthly, mid-year, and final exams

10 + 9	2		Method of recording rest vertical dimension	Theoretical lecture	Daily, monthly, mid-year, and final exams
12 + 11	2		Dental Articulators	Theoretical lecture	Daily, monthly, mid-year, and final exams
13	1		Mounting	Theoretical lecture	Daily, monthly, mid-year, and final exams
14	1		Selection of anterior teeth	Theoretical lecture	Daily, monthly, mid-year, and final exams
16 + 15	2		Selection of Posterior Teeth	Theoretical lecture	Daily, monthly, mid-year, and final exams
18 + 17	2		Arrangement of Artificial Teeth.	Theoretical lecture	Daily, monthly, mid-year, and final exams
19	1		Arrangement of Posterior Teeth	Theoretical lecture	Daily, monthly, mid-year, and final exams
21 + 20 22 +	3		Waxing and Carving Complete Denture Occlusion	Theoretical lecture	Daily, monthly, mid-year, and final exams
2324 +	1		Processing of The Denture (Flasking)	Theoretical lecture	Daily, monthly, mid-year, and final exams
+ 25 26	2		Occlusal Correction Finishing And Polishing Of Complete Denture	Theoretical lecture	Daily, monthly, mid-year, and final exams
27	1		Repair of Complete Denture	Theoretical lecture	Daily, monthly, mid-year, and final exams
28	1		Repair of Complete Denture	Theoretical lecture	Daily, monthly, mid-year, and final exams
29	1		Relining And Rebasing	Theoretical lecture	Daily, monthly, mid-year, and final exams
30	1		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 dimension Journal of Prosthodontics, vol. 24, no. 4, pp. 287–290, 2015.
Electronic References, Websites	Edentul Complete for System Classification (https://onlinelibrary.wiley.com/doi/10.1111/j.1532849X.1999.tb00005.x)

121.	Course Name: Biochemistry
122.	Course Code: 212BC
123.	Semester / Year:2025-2024
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/ 4 units of study
Course Objectives 128.	
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 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.
Teaching and Learning Strategies 129.	
human more	Strategy • Study biochemistry in detail, which will provide the key to understanding metabolic activities and the most important vital compounds in the body, and enhance this study using practical application to give students 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
1	2	Enzymes: Definition ,Terminology , and Classification	Biochemistry	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
2	2	Mechanism of enzyme action	Biochemistry	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
3	2	Clinical significance of enzyme assays	Biochemistry	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
4	2	Vitamins, definition, classification	Biochemistry	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
5	2	Vitamins Disorders	Biochemistry	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
6	2	Chemistry of carbohydrates	Biochemistry	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
7	2	Metabolism of Carbohydrates: part 1	Biochemistry	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
8	2	Metabolism of Carbohydrates :part 2	Biochemistry	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
9	2	Carbohydrates metabolism regulation	Biochemistry	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
10	2	Chemistry of proteins and amino acids	Biochemistry	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
11	2	Metabolism of proteins and amino acid	Biochemistry	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
12	2	Metabolism of Protein and amino aci regulation	Biochemistry	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
13	2	Metabolism of Protein and amino aci d inherited disorder	Biochemistry	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
14	2	Metabolism of starvation	Biochemistry	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
15	2	Exam	Biochemistry	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
16		Mid Exam			Biochemistry

17	2	Metabolism of Lipid: oxidation of Fatty Acids	Biochemistry	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
18	2	Biosynthesis of Fatty Acids	Biochemistry	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams

19	2	of metabolism of Integration carbohydrates, lipid ,and Proteins	Biochemistry	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
20	2	Metabolism of minerals and trace elements	Biochemistry	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
21	2	Trace elements disorder	Biochemistry	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
22	2	Detoxification	Biochemistry	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
23	2	Chemistry of Nucleotides	Biochemistry	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
24	2	Metabolism of purines and pyrimidines	Biochemistry	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
25	2	Calcium , phosphate and magnesium	Biochemistry	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
26	2	Biochemistry of teeth	Biochemistry	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
27	2	Biochemical features of saliva	Biochemistry	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
28	2	Chemistry of hormones	Biochemistry	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
29	2	Hormones Disorders	Biochemistry	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
30	2	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 8 th Ed JAYPEE.
Electronic References, Websites	

Course Name: General Histology 133.	
Course Code: Histology/ 213 GH 134.	
Semester / Year:2025-2024 135.	
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/ 4 units of study	
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	
the study by the	Strategy • Study basic tissues in detail, which will provide the key to understanding histological structure of each organ of the human body, and enhance this usin an optical microscope to give students complete information about 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
1	2	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
2	2	Epithelium properties , Epithelium histology, Epithelium classification, Epithelium regeneration, turnover, and repair, Basement membrane	General Histology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
3	2	Connective tissue histology , Connective tissue classification, Connective tissue proper, regeneration , turnover, and repair, Clinical considerations with skin aging, Specialized connective tissue, Muscle properties.	General Histology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
4	2	Conducting portion : Nasal cavity, Nasopharynx, Larynx, Trachea, Bronchi, Bronchioles, and Terminal bronchioles.	General Histology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
5	2	Respiratory portion : Respiratory bronchioles, Alveolar ducts, Alveoli, Lung vasculature and nerves , Pleura.	General Histology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
6	2	Urinary System : kidney nephrons, collecting tubules and ducts	General Histology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
7	2	Urinary System : ureter, urinary bladder, and male and female urethra	General Histology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
8	2	Integumentary System : skin: epidermis, dermis, Thick skin, Thin skin Layers of Skin, Melanocytes Langerhans Cells, Merkel's Cells.	General Histology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
9	2	Integumentary System : skin glands, Sebaceous Glands, Sweat glands, Subcutaneous tissue (hypodermis hair, and nail	General Histology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
10	2	Hemopoiesis : bone marrow Prenatal hemopoiesis, Postnatal hemopoiesis Bone marrow, Red bone marrow, Yellow bone marrow.	General Histology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams

11	2	Hemopoiesis: blood cells Erythrocytes or Red blood corpuscles (RBC), (Leukocytes), platelets.	General Histology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams

12	2	Circulatory System: Arterial system Elastic arteries, Muscular arteries Arterioles, Lymphatic vascular system	General Histology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
13	2	Circulatory System: Muscular veins Venules, Capillaries, the heart.	General Histology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
14	2	Lymphoid System: Functions of the Lymphatic System consists of Cells, Tissues, Organs.	General Histology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
15	2	Lymphoid System: The peripheral (secondary) lymphoid tissues Mucosa Associated Lymphoid Tissue (MALT).	General Histology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
16		Mid Exam			
17	2	tissue, Nerve System: Nervous Neurons and glial cell (structure and types). Nerve fibers structure Synapse impulse reflex arch. CNS and PNS, Brain, Spinal cord, Cerebellum.	General Histology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
18	2	Endocrine System: Histological structure of Pituitary (Hypophysis), Blood supply, and cells of the neurohypophysis.	General Histology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
19	2	Endocrine System: Histological structure of Parathyroid, Thyroid glands.	General Histology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
20	2	Endocrine System: Histological structure of: Islets of Langerhans, Adrenal gland and Pineal gland.	General Histology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
21	2	Digestive System: Tongue, Salivary glands, Lips or labia, Taste buds,	General Histology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams

		Types of the cells in the taste buds.			
22	2	Digestive System: General structure of the digestive tract, Oral cavity, Esophagus, Stomach Mucosa, Other Layers	General Histology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
23	2	Digestive System: Large intestine, Cecum, Appendix, and Rectum.	General Histology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
24	2	Digestive System: Histological structure of: liver ,Pancreas , and Gall bladder.	General Histology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
25	2	Male Reproductive System Testes, Intratesticular ducts,Excretory genital ducts.	General Histology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
26	2	System Reproductive Male Accessory glands, Penis.	General Histology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
27	2	Female Reproductive System Histological structure of: Ovary, Corpus luteum, Uterus.	General Histology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
28	2	Female Reproductive System Histological structure of placenta, vagina, mammary gland.	General Histology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
29	2	Special Sense Organs: eye	General Histology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
30	2	Special Sense Organs: ear	General 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 Histology: 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:2025-2024

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/ 2units of study

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
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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 using 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.
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154. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2	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.
2	2	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.
3	2	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.
4	2	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.
5	2	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.
6	2	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.
7	2	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.
8	2	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.
9	2	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.

10	2	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.
11	2	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.
12	2	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.
13	2	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.
14	2	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.
15	2	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.
16		Mid Exam			
17	2	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.
18	2	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.
19	2	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.

20	2	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.
21	2	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.
22	2	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.
23	2	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.

24	2	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.
25	2	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.
26	2	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.
27	2	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.
28	2	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.
29	2	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.

30	2	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

textbooks Required (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	
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157. Course Name: General Physiology

158. Course Code: Physiology/ 214 PH

159. Semester / Year:2025-2024

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/ 4 units of study

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
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165. Teaching and Learning Strategies

- Lectures using the [Power Point] program **Strategy**
 - 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

166. Course Structure

Evaluation method name	Learning method	Unit or subject	Week	Hours	Required Learning	Outcomes
Daily, monthly, 1	Theoretical	Introduction; (Function organization of the human body, Cell physiology, Cell Physiology lecture using semi-annual membrane, Cell components, Cell Junction) PowerPoint and final exams				
Daily, monthly, 2	Theoretical	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 Edema, Causes of edema, Measurement		Physiology	lecture using semi-annual PowerPoint and final exams of body fluid volume, Dehydration, Types, Classification, Causes, Signs, and Symptoms of Dehydration)	
Theoretical 3	2	Homeostasis and Transport across cell membrane (Diffusion (passive), Carrier-mediated transport (passive Vesicular transport). Physiology		lecture Daily, monthly, semi-annual or using and final exams active), PowerPoint		
ORAL CAVITY and Salivary Glands (Functions of Mouth, Salivary Glands (Structure, Development, Major and Minor glands, Clinical correlations, Regulation of Theoretical						
Daily, monthly, 4	2	Salivary Secretion, Factors Influencing Physiology lecture semi-annual Salivary Flow and Composition) using (Mastication, Deglutition, Bolus Formation PowerPoint and final exams for Swallowing, Digestion), (speech: Definition, Mechanism, Nervous Control, Applied Physiology)				

Salivary functions and Regulation of Salivary

Secretion (Composition of Saliva,

Theoretical

Properties of Saliva, Functions of Saliva,

- 5 2 Effect of Drugs and Chemicals on Salivary Secretion, Maintenance of Tooth Integrity, Physiology lecture using Daily, monthly, semi-annual

The Diagnostic Applications of Saliva and PowerPoint and final exams forensic uses of saliva, Disadvantages/ Limitations of Saliva)

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6	2	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
7	2	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
8	2	Hemoglobin (Formation of Hemoglobin, Compounds, Hb Metabolism, Iron Destruction of Hb, The common causes of jaundice)	Physiology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
9	2	(Agglutination, groups Blood 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
10	2	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

11	2	Cardiovascular system: Blood vessels (Heart: Layers, Valves, Actions of heart, Blood Vessels, Division of circulation, Properties of Cardiac Muscle, Action Potential and Ionic Basis, Conductive system of Human Heart)	Physiology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
12	2	Cardiovascular system: Blood pressure (Cardiac Cycle, Heart Sounds, Cardiac Output, Heart Rate and Regulation, Arterial Blood Pressure and Regulation of Capillary and Pressure Venous ABP Pressure, Arterial Pulse and Venous Pulse, Regional Circulation)	Physiology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
13	2	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
14	2	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
15	2	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 Respiration, of Disturbances Pathophysiology of Specific Pulmonary Abnormalities, The relationship between oral health and respiratory disease)		using PowerPoint	
16		Half-year Break			

17	2	SPECIAL SENSATION: Vision, Hearing, taste & smell (Structure of Eye, Visual Process and Field of Vision, Visual Pathway Pupillary Reflexes, Color Vision, and Errors of Refraction. Structure of Ear and Auditory Pathway, Mechanism of Hearing and Auditory Defects, Sensation of Taste and Smell)	Physiology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
18	2	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
19	2	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
20	2	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
21	2	(Introduction, System Endocrine 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
22	2	Major Endocrine Glands Oral manifestations of endocrine dysfunction, Control Systems Involving Hypothalamus and Pituitary glands, The pituitary gland, Thyroid gland, Pancreas gland, Adrenal glands	Physiology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
23	2	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			
24	2	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
25	2	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
26	2	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
27	2	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
28	2	Nervous System (Reflex Activity, Somatosensory System and Somatomotor System, Physiology of Pain)	Physiology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
29	2	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
30	2	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 de
stude

Recommended books and references (scientific journals, reports...)

Electronic References, Websites

169.	Course Name: General Physiology	
170.	Course Code: Physiology/ 214 PH	
171.	Semester / Year:2025-2024	
172.	Description Preparation Date: 2/5/2025	
	Available Attendance Forms: Attendance in the laboratory for the practical material	173.
	Number of Credit Hours (Total) / Number of Units (Total): 60 hours/ units of study	174.

Course Objectives 176.

gained	Course • Preparing the student practically in terms of applying the knowledge Objectives • 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
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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
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178. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2	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

2	2	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
3	2	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
4	2	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
5	2	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
6	2	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
7	2	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
8	2	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
9	2	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
10	2	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

11	2	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
12	2	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

13	2	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
14	2	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
15	2	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
16		Mid Exam			
17	2	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
18	2	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
19	2	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
20	2	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
21	2	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

22	2	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
23	2	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
24	2	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

25	2	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
26	2	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
27	2	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
28	2	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
29	2	Seminars and examinations	Physiology	Theoretical lecture using PowerPoint	Discussions
30	2	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	

					annual and final exams
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Worksheet

/performing

Calculations

19		Formatting worksheet/ Developing a workbook/ Print Workbook Contents/Customizi Layout	o	a smart board	semiannual and final exams
20+21+2	1	Introduction ab Microsoft Access/ look at Micro Access+ Creating D tables /properties the fields	Comput s	eUsing a compu with	Daily, monthl y, semiannual and final exams
23	1	Querying database/Designing Forms/Producing reports	Computer	a smart board	Daily, monthl y, semiannual and final exams
24+25	1	Introduction ab Microsoft Po point/starting po point2016	Computer w w	Using a compu with	Daily, monthl y, semiannual and final exams

26	1	Formatting text/Us graphics and Text	Computer	a smart board	Daiy, monthl y, semiannual and final exams
27+28	1	Manipulating slides/Using Multimedia Elemen	Comput	eUsing a compu with	Daily, monthl y, semi-

Daily, monthl y, 29		p Computer Management	Power o	sm 1a board	semiannual and final exams
30	1	p Computer Management	Power Comput	dUsing e compute with	Daily, monthl y, semiannual 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 applicati in management 2- E-learning concepts techniques
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	

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Semester / Year: The first and second semesters of the first stage		183.
Description Preparation Date:2025-2024		184.
Available Attendance Forms: attendance in classroom for theoretical subject (weekly)		185.
Number of Credit Hours (Total) / Number of Units (Total) 60 hours theoretical/2academic units		186.
Course Objectives		188.
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.	
Teaching and Learning Strategies		189.
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 a teaching process, such as the use of multimedia and online learning.	

190. Course Structure					
Week	Hou rs	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	a Using computer with smart a board	Daily,monthly,semiannual and final exams
3+4	1	Introduction to learning Goo Classroom Platform Goo drive+ Goo forms	Computer	a Using computer with a smart board	Daily, monthly, semiannual and final exams
5+6	1	Online conferencing+ Introduction ab Windows /A loo Windows 10/Stating Windows 10/Working wit h windows Program+Worki n a M files with folders/ Using computer	Computer	a Using computer with a smart board	Daily, monthly, semiannual and final exams

7+8	1	Working Taskbar Us Desktop+ Windows Accessories	Computer a	a Using comput er with a smart board	Daily, monthly, semiannual and final exams
9+10	1	A look at Con Wido Panel+ Explorer	Co ute	t mUsing a comput er with a	Daily, monthly, semiannual

				smart board	and final exams
11+12	1	Libraries+ Introduction about Microsoft Word2016 A look at Microsof Word /Editing Documen	Co ute	mUsing a comput er with a smart board	Daily, monthly, semiannual and final exams
13	1	Formatting Text/ Formatting paragraphs/ Proofing documents	Co ute	mUsing a comput er with a smart board	Daily, monthly, semiannual and final exams
14	1	Adding Tables	Co ute	mUsing a comput er with a smart board	Daily, monthly, semiannual and final exams
15+16	1	Grap Inserting Elements+ p Controlling Appearance	Co ute a	m Using a comput er with a smart board	Daily, monthly, semiannual and final exams

17+18	1	Introduction ab Excels /A Look Exc Microsoft Modifying Worksheet /performing Calculations	Computer	a Using comput er with a smart board	Daily, monthly, semiannual and final exams
19	1	Formatting worksheet/ Developing a w Printbook/ Workbook Contents/Custom g Layout	Computer	a Using comput er with a smart board	Daily, monthly, semiannual and final exams
20+21 2	1	Introduction ab Microsoft Acc A look at Micros	Computer	a Using comput er with a	Daily, monthly, semi-

		Creat Access+ ab Data /properties of fields		smart board	annual and final exams
23	1	Querying database/Design Forms/Producin reports	Co ute g	m Using i a comput er with a smart board	Daily, monthly, semiannual and final exams
24+25	1	Introduction ab Microsoft Po point/starting power point2016	Co ute w	mUsing a comput er with a smart board	Daily, monthly, semiannual and final exams
26	1	Formatting ext/Using graph and Text	Co ute	m Using a comput er with a smart board	Daily, monthly, semiannual and final exams

27+28	1	Manipulating slides/Using Multimedia Elements	Computer	Using a computer with a smart board	Daily, monthly, semiannual and final exams
29	1	Power Management	Computer	Using a computer with a smart board	Daily, monthly, semiannual and final exams
30	1	Microsoft Access	Computer	Using a computer with a smart board	Daily, monthly, semiannual 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 any)			Windows 10 Office 2016		

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

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Course Name: 193.
00Head and neck Anatomy
Course Code: 194.
209AT
Semester / Year: 195.
2025– 2025
Description Preparation Date: 196.
2/5/2025
Available Attendance Forms: 197.
Attendance in the classroom for the theoretical part
Number of Credit Hours (Total) / Number of Units (Total) 198.
30 hours/60 credits
Course Objectives 200.

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 •
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- 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, oral cavity, including bones, muscles, nerves, blood vessels, and lymphatic structures.

Teaching and Learning Strategies 201.

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 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.
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202. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1 & 2	2		Scalp Layers of the scalp Muscles of the scalp Sensory Nerve Supply of the Scalp Arterial Supply of the Scalp	Theoretical lecture using PowerPoint presentation	Daily, month semio annual and final exams

			Venous Drainage of the Scalp Lymph Drainage of the Scalp Clinical Notes		
& 4	2		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 lecture using PowerPoint presentation	Daily, monthly, semi-annual and final exams

& 6	2		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 osemi-annual a final exams
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			The Paranasal Sinuses Drainage of Mucus and Functions of Paranasal Sinuses Clinical Notes		
7	1		Mandibular nerve Introduction Branches of the Mandibular Nerve Otic Ganglion Clinical Notes	Theoretical lecture using PowerPresentation	Daily, monthly, semiannual and final exams
& 9	2		Face Skin of the Face Muscles of the Face (Muscles of Facial Expression) Sensory Nerves of the Face Arterial Supply of the Face venous drainage of the Face venous drainage of the Face Lymphatic drainage of the face Facial nerve	Theoretical lecture using PowerPresentation	Daily, monthly, semiannual and final exams

111	20 &		Oral cavity The Lips The oral Cavity vestibule and Proper Sensory innervation of the Mouth Hard Palate & Soft palate Muscles of the Soft Palate A Palatoglossal & Palatopharynx Arch	Theoretical lecture using Powerpoint presentation	Daily, monthly, semiannual and final exams
1	2	1	Tongue	Theoretical lecture	Daily, monthly

			Mucous Membrane of the Tongue Muscles of the Tongue Movements of Tongue	using Powerpoint presentation	semiannual and final exams
1	3	1	Temporal region The temporal fossa anatomy The infratemporal fossa Communications Muscles mastication	Theoretical lecture using Powerpoint presentation	Daily, monthly, semiannual and final exams

1 1 5	2 4 &	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	Theoretic lecture using PowerP resentation	Daily, month semiannual and fi exams
1	1 6	The Pterygopalatine fossa Boundaries, Communications and openings Maxillary nerve Branches from the pterygopalatine ganglion THE PTERYGOPALATINE GANGLION VEINS THE THE PTERYGOPAL NE FOSSA	Theoretic lecture using PowerP resentation	Daily, month semiannual and fi exams

1	1	Temporomandibular joint Introduction The Articular Disk Retrodiscal Tissue Capsule Synovial Membrane Ligaments Nerve Supply Vascular Supply Movements Important Relations of the 2 Temporomandibular Joint C1linical Notes	Theoretical lecture using PowerP presentation	o	Daily, month semiannual and final exams
1 1 9	2 8 &	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 Muscl	Theoretical lecture using PowerP presentation	o	Daily, month semiannual and final exams

2	0	1	Brain Nervous System Gross Anatomy of the Brain Parts of the Brain Ventricular System of the Brain The Venous Blood Sinuses (Dural Sinuses)	Theoreti ecture using PowerP presenta n	o	Daily, month semiannua and fi exams
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			Blood Supply of the Brain Cranial Meninges Dural Nerve Supply Dural Arterial Supply Venous Dural Drainage		
2 2 2	1 &	2	triangles of the neck ANTERIOR TRIANGLE SUBMENTAL TRIANGLE SUBMANDIBULAR TRIANGLE CAROTID TRIANGLE MUSCULAR TRIANGLE Posterior Triangle Thyroid Gland blood supply & venous drainage nerve supply	Theoretical lecture using PowerPoint presentation	Daily, monthly, semiannual and final exams
2	3	1	Submandibular region MUSCLES OF THE SUBMANDIBULAR REGION The submandibular gland Sublingual Gland	Theoretical lecture using PowerPoint presentation	Daily, monthly, semiannual and final exams

2 2 5	4 &	2	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	Theoretical lecture using PowerPoints	Daily, monthly, semiannual and final exams
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			Veins of the Head and Neck		
2 2 7	6 &	2	Arteries of the neck Common Carotid Artery Carotid Sinus Carotid Body External Carotid Artery Internal Carotid Artery Subclavian Arteries (3 parts) Circle of Willis	Theoretical lecture using PowerPoints	Daily, monthly, semiannual and final exams
2	8	1	Cranial nerves Introduction Functional Components Summary of cranial nerves	Theoretical lecture using PowerPoints	Daily, monthly, semiannual and final exams
2	9	1	Pharynx Muscles of the Pharynx Pharynx divisions Palatine Tonsils Waldeyer's Ring of Lymphoid Tissue	Theoretical lecture using PowerPoints	Daily, monthly, semiannual and final exams

3	0	1	Larynx Cartilages of the Larynx Membranes and Ligaments of the Larynx Inlet of the Larynx Laryngeal Folds Muscles of the Larynx	Theoretical lecture using PowerPoints presentation	Daily, monthly, semiannual and final exams
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			Nerve & BI of Supply Larynx	o	
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. daily and monthly exams, and practical requirements) 25% annual pursuit (25% final practical exam 35% final theoretical exam					
204. Learning and Teaching Resources					
Required textbooks (curricular books, if an			anatomy	Clinical	y1.Snell
			7 th edition.		
			2. Netter's head and neck		
			anatomy for dentistry 2 nd edition		
					2012.
Main references (sources)			anatomy	Clinical	1.Snell
			7 th edition.		
			2. Netter's head and neck		
			anatomy for dentistry 2 nd edition		
					2012.
Recommended books and references (scientific journals, reports...)					
Electronic References, Websites					

Course Name: Microbiology 205.

Course Code: 315MB 206.

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Semester / Year: 2025-2024 207.

Description Preparation Date: 2/5/2025 208.

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

Number of Credit Hours (Total) / Number of Units (Total): 60 hours/ 4 units of study 210.

Course Objectives 212.

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 diseases by these organisms, their diagnosis, and 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 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 immune response to diseases, modern and advanced methods of diagnosing microbial diseases, addressing sterilization methods and how to apply them with regard to dentistry.....

Teaching and Learning Strategies 213.

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

214. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2	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 PowerPoint	Daily, monthly, semi-annual and final exams
2	2	-Microbial growth, growth curve -Metabolism of microorganisms Molecular biology & bacterial genetics	Microbiology	Theoretical lecture usi PowerPoint	Daily, monthly, semi-annual and final exams
3	2	-Sterilization and Disinfection	Microbiology	Theoretical lecture usi PowerPoint	Daily, monthly, semi-annual and final exams
4	2	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	2	- 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	2	- 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	2	- Oral and mucosal immunity - Autoimmunity and immune tolerance	Microbiology	Theoretical lecture usi PowerPoint	Daily, monthly, semi-annual and final exams
8	2	- 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	2	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	2	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
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11	2	Staphylococci -Virulence factors - and pathogenesis -Epidemiology, treatment and prevention	Microbiology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
12	2	G- negative diplococcic , Vellionella and Moraxella Neisseria gonorrhea, N. meningitidis	Microbiology	Theoretical lecture usi PowerPoint	Daily, monthly, semi-annual and final exams
13	2	Lactobacilli, Actinomyces and <i>Corynebacterium diphtheriae</i> & Diphtheroids	Microbiology	Theoretical lecture usi PowerPoint	Daily, monthly, semi-annual and final exams
14	2	Bacillus: B. subtilis, B. anthracis and B.ceres	Microbiology	Theoretical lecture usi PowerPoint	Daily, monthly, semi-annual and final exams
15	2	Clostridium : C. perfringenis , C. tetani, C. botulinum, and difficile	Microbiology	Theoretical lecture usi PowerPoint	Daily, monthly, semi-annual and final exams
16	2	Enterobacteriaceae -E.coli, Salmonella, Shigella,	Microbiology	Theoretical lecture usi PowerPoint	Daily, monthly, semi-annual and final exams
17	2	Enterobacter, Klebsiella, proteus, Yersinia	Microbiology	Theoretical lecture usi PowerPoint	Daily, monthly, semi-annual and final exams
18	2	Mycobacterium Tuberculosis & Leprae	Microbiology	Theoretical lecture usi PowerPoint	Daily, monthly, semi-annual and final exams
19	2	Brucella, Haemophilus, Vibrio	Microbiology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
20	2	- Aggregatibacter, porphyromonas, prevotella, Bacteroids	Microbiology	Theoretical lecture usi PowerPoint	Daily, monthly, semi-annual and final exams
21	2	Fusiforms and Spirochaetes - Fusobacterium, leptotichia	Microbiology	Theoretical lecture usi PowerPoint	Daily, monthly, semi-annual and final exams
22	2	Treponema and oral Treponema	Microbiology	Theoretical lecture usi PowerPoint	Daily, monthly, semi-annual and final exams
23	2	Mycoplasma, Chlamydia and Rickittsiae	Microbiology	Theoretical lecture usi PowerPoint	Daily, monthly, semi-annual and final exams

24	2	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	2	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	2	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	2	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	2	Virology -general structure of viruses - classification	Microbiology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
29	2	viral replication - Isolation & diagnosis - Oral virology	Microbiology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
30	2	- Oral mycology and Oralparasitology Introduction,epidemiology, transmission -E.histolotica, E.gingivalis, T.tenax -Fungal cells-classification - Candida	Microbiology	Theoretica ecture usi PowerPoin	Daily, monthly, n 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

(curric textbooks Required
books, if any)

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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: 2025-2024

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/ 4 units of study

224. Course Objectives

Course Objectives	• Identifying the principles of microbiology and epidemiological diseases, knowing the characteristic microorganisms in general, and the special characteristics of oral pathogenic microorganisms such as 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 effect 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.....
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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
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226. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2	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
2	2	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
3	2	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
4	2	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
5	2	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
6	2	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
7	2	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
8	2	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
9	2	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

10	2	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
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11	2	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
12	2	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
13	2	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
14	2	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
15	2	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
16		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
17	2	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
18	2	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

19	2	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
20	2	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
21	2	<u>Corynebacterium</u>	Microbiology	Theoretical lecture using PowerPoint, with practical experience and presentation of educational videos	Daily and final exams, seminar preparation, practical activity in the laboratory
22	2	Spore-forming Gram-positive bacilli: <u>Bacillus</u> 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

23	2	<u>Clostridium</u> 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
24	2	<u>Mycobacterium</u> 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
25	2	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

26	2	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
27	2	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
28	2	<u>Neisseriae</u> 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
29	2	Virology	Microbiology	Theoretical lecture using PowerPoint	Daily and final exams, seminar preparation, practical activity in the laboratory
30	2	Mycology	Microbiology	Theoretical lecture using PowerPoint	Daily and final exams, seminar preparation, practical activity in the laboratory

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		Final exam			
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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	

Course Name: **Pharmacology** 229.

Course Code: Pharmacology/ 230.

Semester / Year:2025-2024 231.

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
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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
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238. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2	Pharmacology: General concepts	Pharmacology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams

2	2	Pharmacokinetics and pharmacodynamics	Pharmacology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
3	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

4	2	Adrenergic agonists	Pharmacology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
5	2	Adrenergic antagonists	Pharmacology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
6	2	Antihypertensive drugs	Pharmacology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
7	2	Management of angina and heart failure	Pharmacology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
8	2	Management of arrhythmia	Pharmacology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
9	3	Anticoagulants, antiplatelet and antihyperlipidemic drugs and Local Hemostatic Agents in Dentistry	Pharmacology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
10	2	Introduction the pharmacology of CNS drugs, sedative, hypnotics and antiseizures drugs	Pharmacology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
11	2	Antipsychotic and antidepressant drugs	Pharmacology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
12	2	Local and general anesthetics	Pharmacology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual

					and final exams
13	2	Drug of abuse and opioid analgesics	Pharmacology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
14	2	Managements of diabetes mellitus	Pharmacology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
15	2	Drugs affecting GIT	Pharmacology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
				Half-year Break	
16	3	Drugs acting on respiratory system (antihistamines and corticosteroids)	Pharmacology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
17	2	Non-steroidal anti-inflammatory drugs (NSAIDs) part 1	Pharmacology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
18	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
20	2	Cell wall inhibitors (part1)	Pharmacology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
21	2	Cell wall inhibitors (part 2)	Pharmacology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams

22	2	Protein synthesis inhibitors	Pharmacology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
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۲3	۳	Quinolones, Folic acid antagonists and antimycobacterial	Pharmacology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
۲4	2	Antifungal, antiviral and antiparasitic drugs	Pharmacology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
۲5	2	Sex hormone and contraceptive	Pharmacology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
۲6	2	Thyroid hormones and anti-thyroid drugs	Pharmacology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
۲7	1	Anticancer drugs	Pharmacology	Theoretical lecture using PowerPoint	Daily, monthly, semi-annual and final exams
۲8	1	Dental Pharmacology: drugs and 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 (7 th edition, 2017)
Electronic References, Websites	

Course Name: Pharmacology	241.
Course Code: Pharmacology	242.
Semester / Year:2025-2024	243.
Description Preparation Date: 5/5/2025	244.
Available Attendance Forms: Attendance in the laboratory for the practical experiments	245.
Number of Credit Hours (Total) / Number of Units (Total): 60 hours/ 2 units of study	246.

Course Objectives 248.

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
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Teaching and Learning Strategies 249.

and	Strategy • Conducting practical experiments to increase student understanding 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
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250. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2	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

2	2	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
3	2	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
4	2	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
5	2	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
6	2	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
7	2	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

8	2	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
9	2	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
10	2	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
11	2	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			
12	2	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
13	2	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

14	2	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
15	2	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	2	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	2	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	2	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	2	Theoretical lecture using PowerPoint, with practical experience and	Pharmacology	Evaluation of Antiinflammatory Drugs	Daily and final exams, seminar preparation,

			presentation of educational videos			practical activity in the laboratory
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20	2	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	2	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	2	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	2	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	2	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	2	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	2	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	2	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	2	Theoretical lecture PowerPoint, using practical with and experience of presentation educational videos Theoretical lecture using PowerPoint, with practical experience and presentation of educational videos	Pharmacology	Oro dental preparation (part 1)	Daily and final exams, seminar preparation, practical activity in the laboratory
29	2	Theoretical lecture using PowerPoint, with practical experience and presentation of educational videos	Pharmacology	Oro dental 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)	
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Main references (sources)	1- Pharmacology (Lippincott Illustrated Reviews Series) 8th Edition (2025) 2- Contemporary Dental Pharmacology: Evidence-Based Considerations 1st ed (2019) Pharmacology Clinical & 1- Basic (sixte Edition,2025)
Recommended books and references (scientific journals, reports...)	Pharmacology and Therapeutics for Dentistry (7 th edition, 2017)
Electronic References, Websites	

Course Name: Community Dentistry

Course Code: 317CU

Semester / Year: 2025-2024

Description Preparation Date: 2/5/2025

Available Attendance Forms: theoretical lecture and practical

Number of Credit Hours (Total) / Number of Units (Total):
30 ours theoretical and 60 hours practical

Course Objectives

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Course Objective	• It gives information to students about identifying and measuring oral diseases in the community. • Controlling and preventing diseases in the community through preventive programs.
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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.
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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 dental 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
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			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 e	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
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11			Indices used for assessment of periodontal disease	A theoretical lecture using Power Point,	short exams, quarterly, mid year and final exams
-	1		- Oral Hygiene Indices: - Gingival inflammation indices - Periodontal indices		
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 samp 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

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			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
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			Physical environment: -Biological environment: -Psychological environment - Environmental indicators		
20	1		Effects of air pollution on health -Prevention and control of air pollution - Effects of radiation -Noise pollution	A theoretical lecture using Power Point, n	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 manpower planning	e	
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 operator auxiliary. * Operator auxiliary.	A theoretical lecture using Power Point,	short exams, quarterly, mid year and final exams

			Four handed relationship.		
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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(sterilization).	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 health education programs.

Course structure (practical aspect):

Method of assessment	Method of instruction	Subject content	Hours	Week
short exams and practical exams for clinical examination	A theoretical lecture using PowerPoint	Patient's and Operator's positions in Dentistry	2	
short exams and practical exams for clinical examination	A theoretical lecture using PowerPoint	Patient's examination & Case sheet	2	
short exams practical examinations clinical examination	Practical training	Basic tooth numbering	2	
short exams practical exams clinical examination	A theoretical lecture using PowerPoint	Dental caries	2	
short exams practical examinations clinical examination	Practical training	Theories of caries formation	2	5
short exams practical exams clinical examination	A theoretical lecture using PowerPoint	Indices	2	

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short exams	A theoretical lect a using PowerPoint		2	7
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practical exams clinical examination			Dental caries indices		
short exams practical exams clinical examination	a	A theoretical lect using PowerPoint	Clinical examination	2	8
short exams practical exams clinical examination	a	A theoretical lect using PowerPoint	Clinical examination	2	
short exams practical examinations clinical examination	a	Practical training	Clinical examination	2	
short exams practical examinations clinical examination	a	Practical training	Deciduous teeth	2	
short exams practical exams clinical examination	a	A theoretical lect using PowerPoint	Clinical examination	2	
short exams practical examinations clinical examination	a	Practical training	Clinical examination	2	
short exams practical examinations clinical examination	a	Practical training	Prevention of dental caries	2	

short exams practical exams	a	A theoretical lect using PowerPoint	Fluoride	2	
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clinical examination					
short exams practical exams clinical examination	a	A theoretical lect using PowerPoint	Periodontal diseases	2	

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

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clinical examination		Gingival disease indices		
short exams practical exams clinical examination	A theoretical lect a using PowerPoint	Clinical examination	2	

short exams practical examinations clinical examination	Practical training a	Clinical examination	2	2
short exams practical examinations clinical examination	Practical training a	Measur prevalence of disease	2	s
short exams practical exams clinical examination	A theoretical lect a using PowerPoint	Periodontal diseases prevention	2	
short exams practical exams clinical examination	A theoretical lect a using PowerPoint	Tooth brushing	2	
short exams practical exams clinical examination	Practical training a	Clinic.....as sistant	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 ,clinical examination etc

12-Learning and Teaching Resources

Required textbo (curricular books, any)	o1. Textbook of Preventive and Community rd edition by Joseph Dentistry/ Public Health Dentistry 3 John,2017.
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		2-Oral Epidemiology by Marco A. Peres • Jose Leopoldo Ferreira Antunes Richard G. Watt,2021. 3-Textbook of Public Health Dentistry,3rd Edition, 2016.
referen (sources)	Main	-Essential Dental Public Health 2 nd ed by Blanad D, Paul B, Elizabeth T, Richard W, 2013 -Essentials of preventive and community dentistry by Peter,2003 -Essential Dental Public Health 2 nd ed by Blanad D, Paul B, Elizabeth T, Richard W, 2013
Recommended and books references (scientific journals, reports...)		-International dental journal -Community dental health - British dental journal -Australian dental journal
Electronic References, Websi		t

1. Course Name: Conservative Dentistry (Dentistry)

2. Course Code: 319CV

3. Semester / Year:2025- 2025

4. Description Preparation Date:2025 /5/2

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

6. Number of Credit Hours (Total) / Number of Units (Total): 60 theoretical hours and 120 practical hours

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.
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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
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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-	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	Providing important and Information treatment steps.	Definition of operative dentistry: a-Aim of operative dentistry b- General terminology		

2	1		Definitions (continued):	A theoretical lesson using Power Point	Short, quarterly, 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 2 nd premolar, lower 1 st 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 1 st molar with palatal extension)		
8	1		Full metal crown (continued):	A theoretical lesson using	Short, quarterly half-year and

	1		Amalgam cavity preparations class I(lower 1 st 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 (Porcelain 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 I 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-quarter crown):Indications,contraindications,advantages, disadvantages, steps of preparation	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	

	1		Principles of cavity preparation composite restoration (CL III, IV V)	Power Point	Short, quarterly, half-year and final exams
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	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
	1		Techniques of cementation Failures in anterior restorations		
30	1		Cementation (continued):	A theoretical lesson using Power Point	Short, quarterly, half-year and final exams
	1		Fluoride releasing materials		

Laboratory sessions Operative Dentistry

No.	Title of the session	Hours
1	Introduction to operative dentistry, and to work in phantom lab. Demonstration about the rotary instrument, and how to cut geometrical cavities (circle, triangle, and dove-tail), and leave students to work under supervision.	2
2	Demonstration of how to use phantom head, working positions for both student and phantom head, also demonstration cavity preparation on buccal pit of lower 1 st molar and palatal pit of upper lateral incisor.	2

3	Demonstration of principles of amalgam cavity preparation for CL I on the occlusal surface of lower 2 nd premolar on the board then do demonstration of cutting on the phantom head. Quiz about the principles of CL I amalgam cavity preparation.	2
4	Demonstration amalgam CL I cavity for lower 1 st premolar and Leave students to work under supervision.	2

5	Demonstration amalgam CL I cavity for upper 1 st molar (two separated cavities) on the phantom head and teaching the students how to work indirectly by using mirror. Leave students to work under supervision.	2
6	Demonstration amalgam cavity for the palatal extension in upper 1 st molar (continue with last lab in distal occlusal cavity), and Demonstration on the hand instrument groups, and teach students to differentiate between them.	2
7	Practical assessment for the students in amalgam CL I cavity on lower 1 st molar. Oral quiz on the hand instrument and their groups.	2
8	Demonstration amalgam CL II MO cavity for lower 1 st premolar	2
9	Demonstration amalgam CL II MO cavity for upper 1 st molar	2
10	Practical assessment for the students in amalgam CL II MO cavity on lower 1 st molar. Quiz in amalgam CL II cavity lectures.	2
11	Demonstration amalgam CL II MOD cavity for lower 1 st molar	2
12	Demonstration amalgam CL II MOD cavity for upper 2 nd molar	2
13	Practical assessment for the students in cavity preparation of amalgam CL II MOD cavity on lower 2 nd molar.	2
14	Demonstration amalgam CL V cavity for lower 2 nd premolar, upper 1 st molar and upper 2 nd premolar.	2
15	Demonstration amalgam CL III cavity in distal side of upper canine.	2
16	Demonstration of the liner and base placement, their indication, advantage, and uses.	2
17	Supervised students in mixing and placing zinc phosphate cement in CL II DO cavity of lower 2 nd premolar.	2
18	Supervised students in mixing and placing zinc phosphate cement in CL II MO cavity of upper 1 st molar and CL II MOD cavity of lower 2 nd molar..	2
19	Practical assessment for the students in zinc phosphate mixing and placement in CL II MOD cavity on lower 1 st molar.	2
20	Amalgam filling of CL I cavity of lower 1 st premolar	2
21	Amalgam filling of CL II cavity of lower 2 nd premolar.	2
22	Amalgam filling of CL II cavity of upper 1 st molar.	2
23	Demonstration on provisional restoration (Part 1): Materials.	2
24	Demonstration on provisional restoration (Part 2): Techniques.	2
25	Demonstration on direct waxing for post crown construction on upper canine.	2
26	Demonstration on indirect waxing technique.	2
27	Demonstration on investing and casting.	2
28	Demonstration on cleaning and finishing of the cast restoration.	2
29	Final assessment of the practical work.	2
30	Final practical exam.	2
Total		60

laboratory sessions of Preclinical Fixed Prosthodontic

1	Introduction on the lab work, phantom heads and teeth manikins.	2
2	Demonstration about the rotary instrument and how to cut geometrical cavities (Part 1).	2
3	Demonstration about the rotary instrument and how to cut geometrical cavities (Part 2).	2
4	Demonstration on full metal crown preparation on lower 1 st molar.	2
5	Demonstration on full metal crown preparation on lower 2 nd molar.	2
6	Practicing lab under supervision.	2
7	Practicing lab under supervision.	2
8	Practical assessment of full metal crown preparation on lower 1 st molar.	2
9	Demonstration on porcelain fused to metal crown preparation on upper central incisor.	2
10	Demonstration on porcelain fused to metal crown preparation on upper lateral incisor.	2
11	Practicing lab under supervision.	2
12	Practicing lab under supervision.	2
13	Practical assessment of porcelain fused to metal crown preparation on upper central incisor.	2
14	Demonstration on post crown preparation on upper canine.	2
15	Demonstration on post crown preparation on lower 1 st premolar.	2
16	Practicing lab under supervision.	2
17	Practicing lab under supervision.	2
18	Practical assessment of post crown preparation on upper canine.	2
19	Demonstration on special tray construction.	2
20	Demonstration on impression materials used in Fixed Prosthodontics.	2
21	Demonstration on impression techniques in Fixed Prosthodontics.	2
22	Demonstration on die construction using dowel pin.	2
23	Demonstration on provisional restoration (Part 1): Materials.	2
24	Demonstration on provisional restoration (Part 2): Techniques.	2
25	Demonstration on direct waxing for post crown construction on upper canine.	2
26	Demonstration on indirect waxing technique.	2
27	Demonstration on investing and casting.	2
28	Demonstration on cleaning and finishing of the cast restoration.	2
29	Final assessment of the practical work.	2
30	Final practical exam.	2
Total		60

Course Name:	11.
Dental radiology	

Course Code: 12.	
RL 320	
Semester / Year: 13.	
2025–2024	
Description Preparation Date: 14.	
2–5–2025	
15. Available Attendance Forms:	
Attendance at lecture hall	
16. Number of Credit Hours (Total) / Number of Units (Total)	
30 hours	
Course Objectives 18.	
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
Teaching and Learning Strategies 19.	

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 (xray machine, interaction of xray with matter) composition of matter	Dental radiology	Theoretical Lectures	Quizzes, Mid and Final exams
3+4	2	Film imaging (types of xray films, processing cycle, dark room, intensifying screen) projection Intraoral (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 law) 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) anomalies Craniofacial (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, and anatomy interpretations)	Dental radiology	Theoretical Lectures	Quizzes, Mid and Final exams
23	1	management Patient's child of (management	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	(dentoalveolar Trauma 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/

Course Name:	23.
Dental radiology / practical	
Course Code:	24.
RL 320	
Semester / Year:	25.
2025–2024	
Description Preparation Date:	26.
2–5–2025	
27. Available Attendance Forms:	
Attendance at clinic	
28. Number of Credit Hours (Total) / Number of Units (Total)	
60 hours	
Course Objectives	30.

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
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Teaching and Learning Strategies 31.

Strategy	• Seminars • Quizzes • Practical work • Practical requirements • Oral assessment • Final- practical exam
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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	techniques aoral bite-wing (periapical, and occlusal films)	Dental radiology	Seminar + practical work	Seminar and requirements evaluation + Quiz
4	2	Ideal radiographic projection	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	panoramic radiography Dental	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 Final and exams
16+17 18+19		Clinical work	Dental radiology	practical	Quizzes, requirements evaluation Final and exams
20+21 22+23		Clinical work	Dental radiology	practical	Quizzes, requirements evaluation Final and exams
24+25 26+27		Clinical work	Dental radiology	practical	Quizzes, requirements evaluation Final and exams
28+29		Oral assessment	Dental radiology	practical	Quizzes, requirements evaluation Final and exams
30		Final practical exam	Dental radiology	practical	Quizzes, requirements evaluation Final and 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.)
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Main references (sources)	• Fundamentals of oral radiology. • Essentials of Dental Radiography and Radiology
references and books Recommended (scientific journals, reports...)	Journal: • Oral Surgery, Oral Medicine, Oral Pathology and Oral Radiology
	• Dentomaxillofacial Radiology
Electronic References, Websites	https://radiopaedia.org/

Course Name: General pathology	258.
Course Code: 321PA	259.
Semester / Year:2025–2024	260.
Description Preparation Date:2–5–2025	261.
Available Attendance Forms: Lecture hall	262.
Number of Credit Hours 30 (Total) / Number of Units 60 (Total)	263.
Course Objectives	265.

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.
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	-Learning histological sectioning techniques.
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Teaching and Learning Strategies 266.

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. .
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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 + PowerPoint	Quiz, semester exam, midyear exam, final exam.

3 + 4	4	Cell damage reversible cell injury	General pathology	Lecture + PowerPoi	Quiz, semester ex
	4	Irreversible cell injury			nmidyear fina examexam,
5 + 6		Inflammation Acute inflammation	General pathology	Lecture + PowerPoi	Quiz, semester ex midyear exam, nfinal exam

7 + 8	4	Chronic pathology Chemical mediators	General pathology	Lecture + PowerPoi	Quiz, semester ex midyear exam, nfinal exam
	2	Healing and repair Healing of skin wound Healing of bone			
9	4	Deposits and pigmentation External and internal pigmentation	General pathology	Lecture + PowerPoi	Quiz, semester ex midyear exam, nfinal exam
	4				
10 + 11	2	Infection bacterial and vira selective infectious diseasesl	General pathology	Lecture + PowerPoi	Quiz, semester ex midyear exam, nfinal exam
12-13	4	Immunopatholog y Hypersensitivity Autoimmune diseases Transplantation	General pathology	Lecture + PowerPoi	
14	3		General pathology	Lecture + PowerPoi	Quiz, semester ex midyear exam, nfinal exam
15 + 16 + 17	2	Disorders of cell growth and development	General pathology	Lecture + PowerPoi	Quiz, semester ex midyear exam, nfinal exam
18 + 19		Neoplasia benign and malignant tumors molecular basis of tumors	General pathology General pathology General	Lecture + PowerPoi Lecture +	Quiz, semester ex midyear exam, nfinal exam

20-21		Genetics	pathology	PowerPoi	Quiz, semester ex midyear exam,
22		Disturbances in body fluids and blood flow	General pathology	Lecture + PowerPoi	nfinal exam
23					Quiz, semester ex midyear exam, nfinal exam
					Quiz, semester ex midyear exam, nfinal exam
					n
					Quiz, semester ex midyear exam, nfinal exam

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

Course Name: General Pathology (Practical) 270.
Course Code: 321PA 271.
Semester / Year: 2025-2024 272.
Description Preparation Date: 273.
Available Attendance Forms: Attendance in General Pathology Lab 274.
Number of Credit Hours (Total) 60 hours/ Number of Units 60 (Total) 275.

Course Objectives 277.					
Course Objectives			• Qualifying Dentists for Gene Diseases Diagnosis • How to Use Different Stains Disease Identification • Histologi Learning Sectioning		
Teaching and Learning Strategies 278.					
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 examination on microscop slides
3+4	4	Cell damage reversible cell injury Irreversible c injury	General Pathology	Practical	Practical examination on microscop slides

5+6	4	Inflammation Acute inflammation Chronic pathology	General Pathology	Practical	Practical exam on microscop slides
		Chemical mediators			
7+8	4	Healing and repair Healing of skin wound Healing of bone	General Pathology	Practical	Practical exam on microscop slides
9	2	Deposits and pigmentation External and internal pigmentation	General Pathology	Practical	Practical exam on microscop slides
10+11	4	Infection bacter and vira select infectious diseasesl	General Pathology i	Practical	Practical exam on microscop slides
12+13	4	Immunopathology Hypersensitivity Autoimmune diseases Transplantation	General Pathology	Practical	Practical exam on microscop slides
14	2	Disorders of c growth a development	General Pathology	Practical	Practical exam on microscop slides
15+16+1	7	Neoplasia benign and malignant tumors molecular basis tumors	General Pathology	Practical	Practical exam on microscop slides

18+19	4	Genetics	General Pathology	Practical	Practical examination on microscopical slides
20+21	4	Disturbances of body fluids and blood flow	General Pathology	Practical	Practical examination on microscopical slides
22	2	Diseases of the cardiovascular system	General Pathology	Practical	Practical examination on microscopical slides

23	2	Diseases of the respiratory system	General Pathology	Practical	Practical examination on microscopical slides
24+25	4	Diseases of the respiratory system	General Pathology	Practical	Practical examination on microscopical slides
26	2	Hematological diseases	General Pathology	Practical	Practical examination on microscopical slides
27	2	Diseases of G.I.	General Pathology	Practical	Practical examination on microscopical slides
28	2	Diseases of the liver, gall bladder and pancreas	General Pathology	Practical	Practical examination on microscopical slides
29	2	Bone diseases	General Pathology	Practical	Practical examination on microscopical slides

30	2	Joints , Muscle and C diseases	General Pathology	Practical	Practical exa on microscop 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 (with a bonus of two points) and daily and monthly exams (15 points) 25% Annual Effort: 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 editio 2018, Elsevier		
Main references (sources)					

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

Course Name: Prosthodontics	282.
Course Code:	283.
Semester / Year: 2025-2024	284.
Description Preparation Date: 2/5/2025	285.
286. Available Attendance Forms: Attendance in the classroom for the theoretical subject	
Number of Credit Hours (Total) / Number of Units (Total): 30 hours/60 credits	287.
Course Objectives	289.

Course Objectives	• Explaining the laboratory steps manufacturing partial dentures. • Clarifying the relationship of laborat steps to clinical steps. • An explanation of the types of desig used for partial dentures and the types materials used to make them.
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Teaching and Learning Strategies 290.

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

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6	1	• Special Structural Requirements for Maxillary Major Connectors • • Types of Maxillary Major Connector • Single palatal bar • Single palatal strap • Anteriorposterior palatal bars • Combination anterior and posterior palatal strap– type connector • Palatal plate-type connector	Maxillary Major Connectors	PowerPoint presentation	Quiz
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		U-shaped palatal connector			
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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

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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

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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			

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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 stress 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

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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 on the articulator • Arrangement of artificial teeth to the opposing cast • Principles that should be taken during arrangement of artificial teeth • Laboratory procedure of arrangement teeth (Example)	Record Bases, Occlusion Rims, Mounting and Arrangement of Teeth	PowerPoint presentation	Quiz

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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 Partial 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

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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
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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
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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-EtherKetone (PEEK) as an Alternative Framework Material for Removable Dental Prostheses. A Clinical Report. J Prosthodont. Oct;25(7):580-584. • Robert, W. L. (2018) 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:2025-2024	
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): 60 units / 60Hours.	
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 dent Teaching third-stage students and training them on how to draw and design a partial denture m from acrylic material. Teaching third-stage students and training them on how to draw and design a flexible partial dent
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 a educational services to the community.
10. Course Structure	

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Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2		Introduction to Removable Partial Dentures	practic	Daily, monthly, mid-year, and final exams
2	2		Kennedy Classification		Daily, monthly, mid-year, and final exams
3	2		Cast Trimming		Daily, monthly, mid-year, and final exams
4	2		Surveying		Daily, monthly, mid-year, and final exams
5	2		Surveying		Daily, monthly, mid-year, and final exams
6	2		Wire Bending		Daily, monthly, mid-year, and final exams
7	2		Wire Bending		Daily, monthly, mid-year, and final exams

8	2		Acrylic Removable Partial Denture Design		Daily, monthly, mid-year, and final exams
9	2		Acrylic Removable Partial Denture Laboratory Procedures		Daily, monthly, mid-year, and final exams
10	2		Acrylic Removable Partial Denture Laboratory Procedures		Daily, monthly, mid-year, and final exams
11	2		Flexible Partial Denture Design		Daily, monthly, mid-year, and final exams
12	2		Flexible Partial Denture Laboratory Procedures		Daily, monthly, mid-year, and final exams
13	2		Flexible Partial Denture Laboratory Procedures		Daily, monthly, mid-year, and final exams
14	2		Flexible Partial Denture Laboratory Procedures		Daily, monthly, mid-year, and final exams
15	2		Principles of 2D Design for the Removable Partial Denture s		Daily, monthly, mid-year, and final exams

16	2		Principles of 2D Design for the Removable Partial Denture s		Daily, monthly, mid-year, and final exams
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17	2		Principles of Drawing 2D Design for the Removable Partial Dentures		Daily, monthly, mid-year, and final exams
18	2		2D Design for Mandibular & Maxillary Arches		Daily, monthly, mid-year, and final exams
19	2		2D Design for Mandibular & Maxillary Arches		Daily, monthly, mid-year, and final exams
20	2		2D Design for Mandibular & Maxillary Arches		Daily, monthly, mid-year, and final exams
21	2		Drawing Removable Partial Denture 3D Design & CAD/CAM		Daily, monthly, mid-year, and final exams
22	2		Drawing Removable Partial Denture 3D Design & CAD/CAM		Daily, monthly, mid-year, and final exams

23	2		Types of Rests		Daily, monthly, mid-year, and final exams
24	2		Rest Seat Preparation		Daily, monthly, mid-year, and final exams
25	2		Block Out and Relief		Daily, monthly, mid-year, and final exams
26	2		Block Out and Relief		Daily, monthly, mid-year, and final exams

27	2		Duplication Of the Master Cast		Daily, monthly, mid-year, and final exams
28	2		Wax Pattern for the Removable Partial Denture Framework		Daily, monthly, mid-year, and final exams
29	2		Wax Pattern for the Removable Partial Denture Framework		Daily, monthly, mid-year, and final exams
30	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 book any)	s
Main references (sources)	
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	

Course Name: orthodontics for 4th grade 294.

Course Code: 426 OD	295.

208

Semester / Year: 2025–2024	296.

Description Preparation Date:2025 /5/2	297.

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

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

Course Objectives	301.

Course Objectives	aring the student at a high level of science regarding orthodontics a nd ifying the types of pathological conditions and malocclusions, the es 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
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.302	Teaching and Learning Strategies

Strategy	- Lectures using Power Point (data show) - Training in lab for construction of removable orthodontic appliance
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303. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	1		<u>Introduction</u> Definition of orthodontics Definition of occlusion, normal occlusion, ideal occlusion and malocclusion Six keys of normal occlusion		
2	1		Aims of orthodontic treatment Orthodontic definitions (overjet, overbite, crossbite, spacing, crowding, midline deviation, rotation, displacement, proclination, retroclination, protrusion, retrusion, imbrication, overlap, impaction) – including types		
3	1		Classification of malocclusion a. Angle's classification including divis and subdivisions		

4	1		b. molar, canine, incisor classifications c. classification of deciduous and mixe dentitions		
5	1		Definitions of growth, development and maturity Stages of development (ovum till birth) Theories of bone growth (cartiligenous, sutural, endosteal-periosteal, matrix theories)		
6	1		Definitions of growth site, growth center, displacement, and drift		

			Growth curve and maximum growth spurt		
7	1		- 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		
8	1		Developmental anomalies Jaw rotation and adaptation		

9	1		<u>Deciduous and permanent dentition</u> Stages of tooth development: Formation, calcification and root completion		
10	1		Tooth eruption (stages and theories) Sequences and timing of eruption		
11	1		<u>Development of occlusion</u> a. new born oral cavity (relationship of gum pads, neonatal jaw relationships, natal and neonatal teeth) b. Deciduous dentition stage - Dental changes till 6 years of age (jaw relationship, attrition, primary spaces		
12	1		c-Early mixed dentition stage - eruption of first molars and incisors (occlusal relationships of primary and permanent molars, early mesial shift, ugly duckling stage, 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)		
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13	1		<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)		
14	1		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		
15	1		b. Local factor i-Extra-teeth (supernumerary) and missing teeth (hypodontia) ii. Anomalies of tooth size and shape		
16	1		iii- Early loss of deciduous teeth		

			iv. Retained deciduous teeth, delayed eruption of permanent teeth, impacted teeth, ankylosis		
17	1		Abnormal eruptive behavior (displacement, transposition) vi. Large frenum (labial and lingual), periodontal diseases		
18	1		vii. Oral habit viii. Dental caries, improper dental restoration		
19	1		<u>Tooth movement</u> a. Tissue changes associated with tooth movement: i. Histology of periodontium ii. Theories of tooth movement (pressure tension theory, blood flow theory, and piezoelectric theory)		
20	1		b. Biomechanics i. Force (application, type, magnitude, duration and direction) ii. Center of resistance and rotation, moment of force and moment of couple.		
21	1		iii. Types of tooth movement iv. Rate of tooth movement and factors affecting it		
22	1		<u>Orthodontic appliances</u> <u>a. Overview:</u>		

			i. passive orthodontic appliances (habit breaker, retainer and space maintainer) ii. active orthodontic appliances (removable, fixed, orthopedic and myofunctional, and combination)		
23	1		<u>b. Removable Orthodontic Appliance:</u> i. Properties of various components (SS wire, acrylic) ii. Components: 1) active components (springs, screws and elastics)		
24	1		2) retentive components (clasps) 3) acrylic base plate and bite planes 4) anchorage		
25	1		iii. Design of a removable orthodontic appliance iv. Construction of a removable orthodontic appliance		
26	1		V.Soldering and welding vi. Post-insertion instructions and guidelines		
27	1		<u>c. Fixed orthodontic appliance:</u> Types, components, advantages, limitation, biomechanics, banding vs. bonding		

28	1		Use of extra-oral anchorage, temporary anchorage devices (TADs), and lingual fixed appliance		
29	1		<u>d. Orthopedic and Myofunctional appliance:</u>		

			- Types, components, advantages, limitation, mode of action		
			<u>e. Other active appliances:</u> combination appliances, Invisalign		
30	1		<u>f. Retention and retainers</u> - 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 da 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

Email: znbjma1977@codental.uobaghdad.edu.iq

Name: Assistant Prof. Aseel Haidar

Email: dr.aseelhaidar@codental.uobaghdad.edu.iq

Name: Lecturer Noor Ahmed

Email: noor_ahmed@codental.uobaghdad.edu.iq

Name: Lecturer Heba Nafea

Email: hebaalkubaisy@codental.uobaghdad.edu.iq

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, 2 nd . exams, and midyear a final exams
2	1	Theoretical knowledge	Teething and difficult erupt	theory	Daily quizzes, 2 nd . exams, and midyear a final exams
3	1	Theoretical knowledge	haematoma Eruption sequestrum ,ectopic erupti	theory	Daily quizzes, 2 nd . exams, and midyear a final exams
4	1	Theoretical knowledge	Epstein pearls, Bohn nodu Dental lamina cysts, Shedd te primary the of Mechanism of resorption shedding, Factors cau differences in time of erupt	theory	Daily quizzes, 2 nd . exams, and midyear a final exams
5	1	Theoretical knowledge	Systemic (disease) Factors which cause late eruption Deciduous Dentition Peri Ugly Duckling Stage	theory	Daily quizzes, 2 nd . exams, and midyear a final exams
6	1	Theoretical knowledge	Morphology of the prim teeth	theory	Daily quizzes, 2 nd . exams, and midyear a final exams
7	1	Theoretical knowledge	Normal morphology of primary teeth and their clin consideration	theory	Daily quizzes, 2 nd . exams, and

					midyear a final exams
8	1	Theoretical knowledge	Morphological differences between primary and permanent teeth	theory	Daily quizzes, 2 nd . exams, and midyear a final exams

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Term

	1	Theoretical knowledge		theory	quizzes, Daily 2 nd . exams, and midyear a final exams
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quizzes, Daily
Term 2nd. and

theory

Theoretical 1
knowledge

10			Dental caries; Definition Classification	a	exams, midyear a final exams
11	1	Theoretical knowledge	Rampant dental caries, E childhood caries,	theory a	Daily quizzes, 2 nd . exams, and midyear a final exams
12	1	Theoretical knowledge	Restorative dentistry children Isolation maintenance of dry field application of the rub Dam	theory a b	Daily quizzes, 2 nd . exams, and midyear a final exams
13	1	Theoretical knowledge	Morphological considerat ,cavity preparation Ca prim on preparation teeth,	theory v	Daily quizzes, 2 nd . exams, and midyear a final exams
14	1	Theoretical knowledge	Restorative materials u on pediatric dentistry	theory s	Daily quizzes, 2 nd . exams, and midyear a final exams
15	1	Theoretical knowledge	Matrices & retainers	theory	Daily quizzes, 2 nd . exams, and

Term

	1	Theoretical knowledge		theory	quizzes, Daily 2 nd . exams, and midyear a final exams
quizzes, Daily 2 nd . and			theory	Theoretical knowledge	1
					midyear a final exams
16	1	Theoretical knowledge	Stainless steel crowns, ART	theory	Daily quizzes, 2 nd . exams, and midyear a final exams
17	1	Theoretical knowledge	Treatment of deep caries	theory	Daily quizzes, 2 nd . exams, and midyear a final exams
18	1	Theoretical knowledge	Indirect pulp treatment	theory	Daily quizzes, 2 nd . exams, and midyear a final exams

Term

	1	Theoretical knowledge		theory	quizzes, Daily 2 nd . exams, and midyear a final exams
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quizzes, Daily
Term 2nd. and
9

theory

Theoretical 1
knowledge

Term

	1	Theoretical knowledge		theory	quizzes, Daily 2 nd . exams, and midyear a final exams
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quizzes, Daily
Term 2nd. and
Functions of primary teeth

theory

Theoretical 1
knowledge

Term

Term

Term

Term

Term

Term

Term

Term

	1	Theoretical knowledge		theory	quizzes, Daily 2 nd . exams, and midyear a final exams
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quizzes, Daily
Term 2nd. and
Term

theory

Theoretical 1
knowledge

20			ther pulp vital Non technique	a	exams, midyear a final exams
21	1	Theoretical knowledge	Reaction of pulp to vari capping material	theory o	Daily quizzes, 2 nd . exams, and midyear a final exams
22	1	Theoretical knowledge	Local anesthesia and p control for children	theory	Daily quizzes, 2 nd . exams, and midyear a final exams
23	1	Theoretical knowledge	Anesthetizing mandibu and maxillary teeth and s tissue	theory	Daily quizzes, 2 nd . exams, and midyear a final exams
24	1	Theoretical knowledge	complications after a lo anesthetic	theory	Daily quizzes, 2 nd . exams, and midyear a final exams

Term

	1	Theoretical knowledge		theory	quizzes, Daily 2 nd . exams, and midyear a final exams
quizzes, Daily 2 nd . and			theory	Theoretical knowledge	1
25	1	Theoretical knowledge	inject supplemental techniques	theory	Daily quizzes, 2 nd . exams, and midyear a final exams
26	1	Theoretical knowledge	Oral surgery for childr indication contraindications extraction of primary teet	theory	a h Daily quizzes, 2 nd . exams, and midyear a final exams
27	1	Theoretical knowledge	technique for extraction primary teeth	theory	Daily quizzes, 2 nd . exams, and midyear a final exams
28	1	Theoretical knowledge	extraction complications	theory	Daily quizzes, 2 nd . exams, and midyear a final exams

Term

	1	Theoretical knowledge		theory	quizzes, Daily 2 nd . exams, and midyear a final exams
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quizzes, Daily
Term 2nd. and
19

theory

Theoretical 1
knowledge

Term

	1	Theoretical knowledge		theory	quizzes, Daily 2 nd . exams, and midyear a final exams
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quizzes, Daily
Term 2nd. and

theory

Theoretical 1
knowledge

Vital pulp therapy pulpotomy

Term

Term

Term

Term

Term

Term

Term

Term

	1	Theoretical knowledge		theory	quizzes, Daily 2 nd . exams, and midyear a final exams
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quizzes, Daily
Term 2nd. and
Term

theory

Theoretical 1
knowledge

30			Infections manifestation management	a	exams, midyear a final exams
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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

Term

	1	Theoretical knowledge		theory	quizzes, Daily 2 nd . exams, and midyear a final exams
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quizzes, Daily
Term 2nd. and

theory

Theoretical 1
knowledge

Required textbooks (curricular boo 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
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Term

	1	Theoretical knowledge		theory	quizzes, Daily 2 nd . exams, and midyear a final exams
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quizzes, Daily
Term 2nd. and

theory

Theoretical 1
knowledge

radiograp survey of teeth extracted

extract complications,

29 postoperative

Course Name: periodontology (theoretical) 1.
Course Code: PER06401 2.
Semester / Year: 2025-20243.
Description Preparation Date: 2/5/ 2025 4.
5. Available Attendance Forms: Weekly in lecture, and clinical work

6. Number of Credit Hours (Total) 30 h theoretical / 90 h practical

	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/ Dugg 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

8. Course Objectives

Course Main Objective

Course Objectives

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

The therapeutic and preventive aspect: where the branch currently covers the Teaching aspect: by giving scientific lectures 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

Quizzes, practical A theoretical Anatomy of the Parts of the 1 2

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.

lecture using periodontium periodontium gingiva
exams, midexams, and final -. term PowerPoint

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 <i>Mechanisms of pathogenicity</i>	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: <i>Definitions of risk factors</i>	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.
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Mechanism and histopathology of pocket formation
 The periodontal A pocket theoretical
 Quizzes, practical
 - Periodontal disease lecture using exams, midexams, and final -term activity
 PowerPoint exams.

- Pulp changes associated with periodontal pockets

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 (causerelated 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 for the control 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.

Quizzes, practical exams, midexams, exams. A theoretical lecture using PowerPoint Explain the effect of Smoking and smoking on periodontal Periodontal Disease 1 27 and final -term health

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%
100%	Total	

12- Learning and Teaching Resources

NEWMAN AND CARRANZA'S CLINICAL	Required Text Books
PERIODONTOLOGY AND IMPLANTOLOGY, FOURTEENTH EDITION 2025 by Elsevier, Inc.	
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	References Recommended Books and (Scientific Journals and Reports)
- Essentials of periodontology - Websites that may publish new modalities and resent news	Electronic References and websites

306.	Course Name: periodontology- clinical

Course Code: 307.	
Semester / Year:2 semester /year 308.	
Description Preparation Date:2/5/2025 309.	
Available Attendance Forms: attending weekly in periodontal clinics 310.	
Number of Credit Hours (Total) / Number of Units (Total):90 hours 311. practical	
Course Objectives 313.	
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.
Teaching and Learning Strategies 314.	
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

-10 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= 1250 points - Maximum= 2500 points

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

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)
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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 (5 th 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 4 th year)
319.	Course Code: PR410
320.	Semester / Year: 2025-2024

Description Preparation Date: 7/5/2025 321.	
Available Attendance Forms: Attendance in the classroom 322. for the theoretical lectures	
Number of Credit Hours (Total) / Number of Units (Total): 323. 30 hours/ 60 credit units	
Course Objectives 325.	
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.
Teaching and Learning Strategies 326.	
Strategy	• Displaying the theoretical material and explaining it in detail on the smart screen. • Use the brainstorming method. • motivating students to use thinking and problemsolving 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 RPD	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 surgery	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 daily and monthly exams, and practical requirements) 25% year evaluation (25% final practical exam 35% final theoretical exam		
329. Learning and Teaching Resources		
textbooks (curricular books, if any)	Required	1.Prosthetic treatment for edentulous patient 2.McCracken removable partial
Main references (sources)		Text book, atlas, besides to book for RPD and C with paper from internet
Recommended books and references (scientific journals, reports...)		• Textbook of complete denture

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

Description Preparation Date: 2/5/2025 333.	
Available Attendance Forms: Lectures & Clinic 334.	
Number of Credit Hours (Total) / Number of Units (Total) 335.	
30 hrs. theoretical and 180 hrs. practical	
Course administrators' names 336.	
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-Tae, Lamis.al-tae@codental.uobaghdad.edu.iq 4- Dr. Manhal Abdul Rahman, manhal.abdualrahman@codental.uobaghdad.edu.iq	
Course Objectives 337.	
	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.
Teaching and Learning Strategies 338.	

Strategy	A- <u>Knowledge and Understanding</u> - 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. <u>B. Subject-specific skills</u>
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- 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

Course Name: oral medicine	339.
Course Code: 5290M	340.
Semester / Year: 2025-2024	341.
Description Preparation Date: 2/5/2025	342.
Available Attendance Forms: Attendance in the classroom for the theoretical subject.	343.
Number of Credit Hours (Total) / Number of Units (Total): 30 hours/60 credits	344.

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11. Course Evaluation

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|---|
| <div style="display: flex; align-items: flex-start;"><div style="flex: 1;"><ul style="list-style-type: none">- Mid-year written exam 15%- daily and monthly exams, and practical requirements) 25%- Annual pursuit (- Final practical exam 20%- Final written exam 40%</div><div style="flex: 1; font-size: 0.9em; padding-left: 10px;">-Annual pursuit (</div></div> |
|---|

12. Learning and Teaching Resources
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Main books (sources)

- | |
|--|
| <ul style="list-style-type: none">□ 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 |
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Name: Fawaz Aswad Email: Fawaz.D.351@codental.uobaghdad.edu.iq
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Name: Ameena Ryhan Diajil Email: ameena.diajil@codental.uobaghdad.edu.iq
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Name: Noor Saad Mohammed Ali Email: noorsaad2011@codental.uobaghdad.edu.iq

Course Objectives 346.

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.		
Teaching and Learning Strategies 347.					
Strategy		- Working to graduate dentists with scientific experience and diagnostic skills in the field of oral diseases. - Ensure that they have a scientific basis in the field of oral diseases 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, semiannual, and final exams
3+4	2		Laboratory investigations in dentistry	Theoretical	Daily quizzes, monthly, semiannual, and final exams
5+6	2		orofacial pain	Theoretical	Daily quizzes, monthly, semiannual, and final exams

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

24+25	2		Salivary gland diseases	Theoretical	Daily quizzes, monthly, semiannual, and final exams
26+27+28	3		Autoimmune diseases	Theoretical	Daily quizzes, monthly, semi-

Course Name: oral medicine	351.
Course Code: 5290M	352.
Semester / Year: 2025-2024	353.
Description Preparation Date: 2/5/2025	354.
Available Attendance Forms: Attendance in the classroom for the theoretical subject.	355.

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

annual, and
final exams

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

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

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

Course Objectives	358.
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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.
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Teaching and Learning Strategies 359.

Strategy	- Working to graduate dentists with scientific experience and diagnostic skills in the field of oral diseases. - Ensure that they have a scientific basis in the field of oral diseases and their relationship to the rest of the body. -Scientific knowledge of the use of medicines and scientific deal with ill patients.
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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, semiannual, and final exams
2	4		Viral infection	clinical	Daily quizzes, monthly, semiannual, and final exams
3	4		Bacterial infection	clinical	Daily quizzes,

monthly,
semiannual
, and final
exams

4	4		Fungal infection	clinical	Daily quizzes, monthly, semiannual, and final exams
5	4		Diseases of the Respiratory tract	clinical	Daily quizzes, monthly, semiannual, and final exams
6	4		Diseases of the cardiovascular system	clinical	Daily quizzes, monthly, semiannual, and final exams
7	4		Diseases of gastrointestinal tract	clinical	Daily quizzes, monthly, semiannual, and final exams
8	4		Renal diseases	clinical	Daily quizzes, monthly, semiannual, and final exams
9	4		Anemia	clinical	Daily quizzes, monthly, semiannual, and final exams
10	4		Leukemia	clinical	Daily quizzes, monthly, semiannual, and final exams

11	4		Bleeding and clotting disorders	clinical	Daily quizzes, monthly, semiannual, and final exams
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12	4		Immunologic diseases	clinical	Daily quizzes, monthly, semiannual, and final exams
13	4		Diseases of the thyroid gland	clinical	Daily quizzes, monthly, semiannual, and final exams
14	4		Diabetes mellitus	clinical	Daily quizzes, monthly, semiannual, and final exams
15	4		Orofacial pain and common headache disorders	clinical	Daily quizzes, monthly, semiannual, and final exams
16	4		Neuromuscular diseases	clinical	Daily quizzes, monthly, semiannual, and final exams
17	4		Temporomandibular disorders	clinical	Daily quizzes, monthly, semiannual, and final exams
18	4		Salivary gland disorders	clinical	Daily quizzes, monthly, semiannual, and final exams

19	4		Drugs in dentistry	clinical	Daily quizzes, monthly, semiannual, and final exams
20	4		Drugs induced oral lesions	clinical	Daily quizzes, monthly, semi-

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annual,
and final
exams

21	4		Panoramic image interpretation	clinical	Daily quizzes, monthly, semiannual, and final exams
22	4		Allergy	clinical	Daily quizzes, monthly, semiannual, and final exams
23	4		Ulcerative ,vesicular, and bullous lesions	clinical	Daily quizzes, monthly, semiannual, and final exams
24	4		Red and white lesions of the oral mucosa	clinical	Daily quizzes, monthly, semiannual, and final exams
25	4		Pigmented lesions of the oral mucosa	clinical	Daily quizzes, monthly, semiannual, and final exams
26	4		Benign lesions of the oral cavity and the jaw	clinical	Daily quizzes, monthly, semiannual, and final exams

27	4		Oral and oropharyngeal cancer	clinical	Daily quizzes, monthly, semiannual, and final exams
28	4		LASER in oral medicine	clinical	Daily quizzes, monthly, semiannual, and final exams

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					
29	4		Geriatric oral medicine	clinical	Daily quizzes, monthly, semiannual, and final exams
30	4		Pediatric oral medicine	clinical	Daily quizzes, monthly, semiannual, 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 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					

					Quizzes

Course Objectives 370.

Information to students in a manner enabling understanding and increased knowledge regarding the diagnosis and treatment of various diseases, mouth and teeth of children.

Course Objectives • Give

- 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

Teaching and Learning Strategies 371.

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

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

					Quizzes
half year and fin			Non pharmacologic		
Theory written		management of patient behavior		1	
examination					

					Quizzes
5	1		Pharmacologic management of patient behavior	Theory	Quizzes half year and final written examination
6	1		Sedation in pediatric dentistry	Theory	Quizzes half year and final written examination
7	1		management of traumatic injuries to the teeth and supporting tissues of children,	Theory	Quizzes half year and final written examination
8	1		classification of injuries to the anterior teeth of children classification methods of clinical examination	Theory	Quizzes half year and final written examination
9	1		Traumatic injuries of the primary teeth and its effect on permanent teeth	Theory	Quizzes half year and final written examination
10	1		Treatment of injury of permanent teeth emergency treatment, temporary restoration of fractured teeth	Theory	Quizzes half year and final written examination
11	1		Advances in Pediatric Dentistry: Advances in diagnostic aids, Advances in cavity preparation methods	Theory	Quizzes half year and final written examination
12	1		Advances in endodontics, Advances in anesthesia	Theory	Quizzes half year and final written examination
13	1		Advances in restorative materials, Advances in surgical procedures, miscellaneous	Theory	Quizzes half year and final written examination

					Quizzes
14	1		Acquired disturbances of oral structure	Theory	Quizzes half year and final written examination
15	1		Developmental disturbances of oral structures	Theory	Quizzes half year and final written examination

16

					Quizzes

half year and
finwritten

Theory Gingivitis and periodontal disease in children:

1

examination

					Quizzes
17	1		Acute candidacies (thrush), acute bacter infection, chronic nonspecific gingivitis, gingival diseases modified by systemic factors.	Theory	Quizzes half year and fin written examination
18	1		Gingival lesions of genetic origin, ascorb acid deficiency gingivitis.	Theory	Quizzes half year and fin written examination
19	1		Periodontal diseases in children, early onset periodontitis, prepubertal periodontitis, localized juvenile periodontitis.	Theory	Quizzes half year and fin written examination
20	1		Papillon – Lefevere syndrome, gingival recession, extrinsic stains and deposits on teeth	Theory	Quizzes half year and fin written examination
21	1		Management of space problems, plannin for space maintenance, loss of primary incisors	Theory	Quizzes half year and fin written examination
22	1		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 fin written examination
23	1		Loss of the Second Primary Molar Before Eruption of the First Permanent Molar, Areas of Multiple Primary Molar Loss	Theory	Quizzes half year and fin written examination
24	1		Development of dental arch and occlusi	o Theory	Quizzes half year and fin written examination
25	1		Arch length analysis;	Theory	Quizzes half year and fin written examination

					Quizzes
26	1		Dental problems of the disabled child	Theory	Quizzes half year and final written examination
27	1		Mental disability, Down syndrome, Intellectual disability, Learning disability	Theory	Quizzes half year and final written examination

28

					Quizzes

Theory half year and finwritten examination	palsy,	Fragile X syndrome, cerebralautism,	1
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					Quizzes
29	1		Respiratory diseases, hearing loss, visual impairment, epilepsy	Theory	Quizzes half year and final written examination
30	1		Heart disease, hemophilia, sickle cell anemia, viral hepatitis, AIDS, children with systemic diseases	Theory	Quizzes half year and final 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 Delhi • 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 edition 2008 • Paediatric Dentistry/ Richard Welbury/ Fourth edition Oxford University Press, 2012 • Essentials of pediatric dentistry/ Kanchan Harikishan Asnani/ JAYPEE BROTHERS MEDICAL PUBLISHERS/1st ed. 2010 • Pediatric Dentistry Infancy through Adolescence/ 5th ed. / Paul S. Casamassimo et al./ Elsevier/ 2013 • Pediatric Restorative Dentistry/ Soraya Coelho Leal, Eliana Mitsue Takeshita/ Springer/ Springer International Publishing AG, part of Springer Nature 2019 • Pedodontics Practice and Management/ Badrinatheswar GV/ Jaypee Brothers Medical Publishers/ 1st ed./ 2010 Restorative Techniques in Paediatric Dentistry/ Duggal et al 2nd ed./ Martin Dunitz /2002
Main references (sources)	McDONALD AND AVERY'S DENTISTRY for CHILD and ADOLESCENT 2016 by Elsevier

					Quizzes
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, Website	s www.ajodo.org , PubMed

Course Name: Preventive dentistry 375.	
Course Code: 531PD 376.	
Semester / Year:2025_ 2025 377.	
Description Preparation Date:2025-5-2 378.	
Available Attendance Forms: lecture and practical (clinic) 379.	
Number of Credit Hours (Total) / Number of Units (Total) 380. 30 hours lectures and 37.5 hours practical 2credit for theory and 1.25for practical	
Course Objectives 382.	
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
Teaching and Learning Strategies 383.	
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 come in one centu	lecture us power poi program h	i Quizzes half year and final written examination
2	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	i 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	i 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	i 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	i 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	i 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	i 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	i 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	i 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	i 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	i 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	i 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)		

13	1	Cariogenic potential of bacteria • Virulence of microorganisms • Major dental caries-associated bacteria • <i>Mutans streptococci</i> • <i>Lactobacilli</i> • <i>Actinomyces</i> • <i>Veillonella</i> Other caries-associated bacteria	lecture us power poi program	i 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 Sealants Sealants for proximal enamel surfaces	lecture us power poi program	i 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	i 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	i 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	d	
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	i 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 potential • Evaluation of nutritive value • Dietary counseling • Approach to counseling Motivation	lecture us power poi program	i 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 h	i 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	i 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	i 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	i 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	i 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	i Quizzes half year and final written examination
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Quizzes				
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 i 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 i Quizzes half year and final written examination e

Quizzes

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	i 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	i 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	i Quizzes half year and final written examination
week	hour		Clinic. structure scheduled	Teaching method	Evaluation method

Quizzes

weeks			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	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

Quizzes

		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	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

Quizzes

Required textbooks (curricular books, if a	• 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 Thylstry 1996 • Principles and practice of public health dentistry by Krishna M and DasarPL.2010

	• Text book of preventive and social medicine. Gupta M. and Mahajan 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	

Course Name: Prosthodontics (theoretical for 5 th year) 387.	
Course Code: PR510 388.	
Semester / Year: 2025-2024 389.	
Description Preparation Date: 2/5/2025 390.	
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	
Course Objectives 394.	
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.
Teaching and Learning Strategies 395.	
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	

We ek	Ho ur s	Requ ire d Lear ning Outc omes	Unit or subject name	Learning method	Evaluation method
1 + 2	2		Occlusion in complete denture	Theoretical lecture	Daily, monthly, midyear, and final exams
3 + 4	2		Retention, stability and support	Theoretical lecture	Daily, monthly, midyear, and final exams
5 + 6	2		Complications of complete denture	Theoretical lecture	Daily, monthly, midyear, and final exams
7 + 8	2		Post insertion problems	Theoretical lecture	Daily, monthly, midyear, and final exams
9 + 1 0	2		Immediate denture	Theoretical lecture	Daily, monthly, midyear, and final exams
11 + 1 2	2		Classification system for completely edentulous patients	Theoretical lecture	Daily, monthly, midyear, and final exams
13	1		Posterior palatal seal area	Theoretical lecture	Daily, monthly, midyear, and final exams

14	1		Single complete denture	Theoretical lecture	Daily, monthly, midyear, and final exams
15 + 1 6	2		Geriatric dentistry	Theoretical lecture	Daily, monthly, midyear, and final exams
17 + 1 8	2		Maxillofacial Prostheses	Theoretical lecture	Daily, monthly, midyear, and final exams
19	1		Residual Ridge resorption	Theoretical lecture	Daily, monthly, midyear, and final exams
20 + 2 1	2		Dental implantology	Theoretical lecture	Daily, monthly, midyear, and final exams
23	1		Characteristics of ideal materials for dental implant	Theoretical lecture	Daily, monthly, midyear, and final exams
24 + 2 5	2		Esthetics in complete denture	Theoretical lecture	Daily, monthly, midyear, and final exams
26	1		Copy denture	Theoretical lecture	Daily, monthly, midyear, and final exams
27 + 2 8	2		Over denture	Theoretical lecture	Daily, monthly, midyear, and final exams
29	1		Attachments in over denture	Theoretical lecture	Daily, monthly, midyear, and final exams
30	1		Neutral zone in complete denture	Theoretical lecture	Daily, monthly, midyear, 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

daily and monthly exams, and practical requirements) 25% year evaluation (includes

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%20honeyPOST%20INSERTION%20PROBLEMS.pdf) • Evaluation of satisfaction and complications in patients with existing complete dentures (https://www.istage.jst.go.jp/article/josnurd/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)

Course Name: periodontology 399.	
Course Code: 528PT 400.	
Semester / Year:2 semester /year 401.	
Description Preparation Date:2/5/2025 402.	
Available Attendance Forms: attending weekly 403.	
Number of Credit Hours (Total) / Number of Units (Total): 30 hours 404. theoretical	
Course Objectives 406.	
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.
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Teaching and Learning Strategies 407.

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.
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408. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
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1	1	Understand the fundamentals of periodontal examination and diagnosis to effectively assess and classify periodontal diseases.	Periodontal and examination diagnosis	A theoretical lecture using PowerPoint	Quizzes, practical exams, midterm exams, final and 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, final and exams
3	1	Evaluate the role of radiographic techniques in diagnosing periodontal conditions and interpreting loss bone accurately.	Radiographic aids in the diagnosis of periodontal disease	A theoretical lecture using PowerPoint	Quizzes, practical exams, midterm exams, and final exams
4	1	Apply advanced diagnostic to methods assess periodontal response to external forces its and implications in treatment outcomes	Advanced diagnosis	A theoretical lecture using PowerPoint	Quizzes, practical exams, midterm exams, and final exams

5	1	how Explain periodontal tissues respond to external forces and understand the biomechanics involved.	Periodontal response to external forces	A theoretical lecture using PowerPoint	Quizzes, practical exams, midterm exams, and final exams
6+7	2	the Explain immunological aspects influencing periodontal disease progression and treatment modalities	Immunology	A theoretical lecture using PowerPoint	Quizzes, practical exams, midterm 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, midterm exams, and final exams

9	1	Describe the epidemiology of periodontal diseases and its impact on public and health clinical management.	Epidemiology of periodontal diseases	A theoretical lecture using PowerPoint	Quizzes, practical exams, midterm 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, midterm exams, and final exams
11	1	Recognize the interconnections between periodontal diseases and dental other disciplines to enhance comprehensive patient care.	Interrelationships of periodontal disease and therapy with other dental disciplines	A theoretical lecture using PowerPoint	Quizzes, practical exams, midterm exams, and final exams
12	1	Demonstrate comprehension general of principles of periodontal surgery and its application in treating various conditions.	Periodontal surgery. General principles	A theoretical lecture using PowerPoint	Quizzes, practical exams, midterm 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, midterm 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, midterm exams, and final exams

15	1	flap Describe surgery techniques and their role in accessing and treating periodontal defects.	Flap surgery	A theoretical lecture using PowerPoint	Quizzes, practical exams, midterm 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, midterm 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, midterm exams, and final exams
18	1	the Explain principles and applications of laser therapy in periodontal treatment.	Laser therapy	A theoretical lecture using PowerPoint	Quizzes, practical exams, midterm 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, midterm 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, midterm exams, and final exams
22	1	Analyze the composition and clinical significance of gingival crevicular fluid in (GCF) periodontal	Gingival crevicular fluid (GCF)	A theoretical lecture using PowerPoint	Quizzes, practical exams, midterm 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, midterm 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, midterm exams, and final exams
25	1	Understands the basics of Regenerative periodontal therapy	Regenerative periodontal therapy	A theoretical lecture using PowerPoint	Quizzes, practical exams, midterm 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, midterm 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, midterm exams, and final exams

28	1	Identify periimplant anatomy and classify periimplant diseases for appropriate treatment planning.	Peri-implant anatomy and Peri-implant diseases classification	A theoretical lecture using PowerPoint	Quizzes, practical exams, midterm exams, and final exams
29	1	Analyze implantrelated complications and failures to improve long-	Implant-related complications and failure	A theoretical lecture using PowerPoint	Quizzes, practical exams, midterm exams, and final exams

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

Description Preparation Date:2/5/2025	414.
Available Attendance Forms: attending weekly in periodontal clinics	415.
Number of Credit Hours (Total) / Number of Units (Total):90 hours practical	416.
Course Objectives	418.

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
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	referred to the college, in addition to the preventive aspect of this subject.
Teaching and Learning Strategies 419.	
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 and steps interventions.	Diagnosis and treatment plan	Explanation direct and discussion the with students.	Quizzes, practical exams, midterm exams, and final exams
3	3	Recognizing different types of periodontal disease indices.	Periodontal indices	Direct explanation and discussion the with students.	Quizzes, practical exams, midterm exams, and final exams
4	3	Learning techniques of ultrasonic cleaning to remove periodontal deposits.	sonic Ultra scaling	Direct explanation the about device and its usage.	Quizzes, practical exams, midterm 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 the of instruments used.	Quizzes, practical exams, midterm exams, and final exams
6-30	3	Participating in practical cases to address challenges in periodontal treatment. Applying acquired diagnostic and treatment to skills 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, midterm 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

Course Name: orthodontics for 5 th grade	423.
Course Code: 5260D	424.
Semester / Year: 2025–2024	425.
Description Preparation Date: 2025 /5 /2	426.

Available Attendance Forms: Attendance in the classroom for the theoretical subject 427.

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

Course Objectives 430.

Course Objectives	• Gain knowledge about methods of diagnosing and treating malocclusion cases • 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 functional orthodontic devices
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Teaching and Learning Strategies 431.

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

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
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2 + 1	2		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-annual and final exams
4 + 3	2		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		
6 + 5	2		v. Photography vi. 3D imaging d. Consent form e. treatment planning: preventive, interceptive, and corrective orthodontics		Daily, monthly, semi-annual and final exams
7	1		Treatment of medically compromised patient		
8	1		Orthodontic Indices		Daily, monthly, semi-annual and final exams
10 + 9	2		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
12 + 11	2		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

13	1		Crowding, spacing, space need:		Daily, monthly, semi-annual and final exams
			a. Types of crowding (primary, secondary and tertiary)		
14	1		b. Space analysis (in permanent and mixed dentition, space required and potential space, methods, Bolton's ratio)		Daily, monthly, semi-annual and final exams
16 + 15	2		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
17	1		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
18	1		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

19	1		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
21 + 20	2		d. Abnormal eruptive behavior (displacement, transposition)		Daily, monthly, semi-annual and final exams

			e. Large frenum (labial and lingual) f. Bad oral habits		
22	1		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
24 + 23	2		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
25	1		d. Class III treatment (etiology, skeletal and soft tissue pattern, dental factors, treatment methods and time)		Daily, monthly, semi-annual and final exams

26	1		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
27	1		orthognathic surgery (presurgical orthodontics, treatment planning, surgical procedures, postsurgical orthodontics); distraction osteogenesis		Daily, monthly, semi-annual and final exams
29+28	2		Cleft lip and palate (Embryology, classification, orofacial effects) Treatment of Cleft lip and palate		Daily, monthly, semi-annual and final exams
30	1		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 and Practice 2nd ed. Edition Phulari 2017
references and books Recommended (scientific journals, reports...)	
Electronic References, Websites	

