



MINISTRY OF HIGHER
EDUCATION AND SCIENTIFIC
RESEARCH
2025-2026

**Academic Program
and
Course Description**

University Name: The National University of Science and Technology
Faculty/Institute: College of Dentistry / Thi Qar
Academic or Professional Program Name: Bachelor's in Oral and Dental Surgery
Final Certificate Name: B. D. S
Academic System: Annually
Description Preparation Date: 3/11/2025
File Completion Date: 1/12/2025

The document has been audited by the Quality Assurance and Academic Accreditation Unit, College of Dentistry.”

Dean's Endorsement

1. Program Vision

Creating and supporting areas of scientific research to find appropriate solutions to oral and dental health problems and providing distinct treatment areas for patients in various oral and dental specialties, including dental implants, using modern technologies in the fields of treatment and diagnosis, and providing medical and clinical consultations to the various sectors of the country.

2. Program Mission

The mission of the College of Dentistry is to achieve excellence in the art and Science of dentistry through teaching, research, services, and the pursuit of:
1-Generations of distinguished dentists have graduated with commitment, safety, And a deep moral character, coupled with clinical knowledge to serve all segments Of society.

2- Provide and promote excellent patient service and community care.

3- Disseminating and applying knowledge and science in the field of oral health.

4 - Creating a healthy environment that encourages communication, cultural Diversity, and communication with international universities to ensure that the College is more consistent with its vision and mission.

5- Based on the need to provide nationally qualified dentists and in awareness of The pioneering role that the college must play in serving the community, the College has been keen to occupy a distinguished position in the field of dental Sciences.

Its mission should be as follows: Developing scientific research, developing the Academic level of faculty members, and increasing absorptive capacity.

3. Program Objectives

- 1- Graduating competitive students locally and globally and expanding admission to preliminary studies on modern foundations in a way that ensures maintaining the academic level and achieving global accreditation.
- 2- Providing therapeutic services in all areas of oral and dental medicine, including: diagnostic and radiology services, maxillofacial surgery, dental prosthetics, dental prevention, children's dental treatment, orthodontics, dental conservative and restoration, dental root fillings, treatment of gum and periodontal diseases, early detection for diseases.
- 3- Developing studies curricula in accordance with quality standards and academic accreditation.
- 4- Supporting and encouraging excellence and innovation in scientific research by publishing scientific products within high impact journals.
- 5- Maximizing the university's financial resources by diversifying its funding sources.
- 6- Activating international relations and cooperation with local and international universities and institutions.

4. Program Accreditation

Does the program have program accreditation? And from which agency? None

5. Other external influences

Educational laboratories, clinics within the college, and scientific research projects

6. Program Structure				
Program Structure	Number of courses	Credit hours	Percentage	Reviews *
Institution Requirements	45	221	100%	
College Requirements				
Department Requirements	None			
Summer Training	2 course		100%	

7. Program Description				
Year/Level	Course Code	Course Name	Credit Hours	
			Theoretical	Practical
First-year	101AN	General Anatomy تشريح عام	1	2
	102MT	المصطلحات الطبية Medical Terminology	1	0
	109 AL	اللغة العربية Arabic	1	0
	103CS	علوم الحاسبات Computer Sciences	2	2
	104DA	تشريح الاسنان Dental Anatomy	2	2
	105HRAD	حقوق الانسان Human Rights	1	0
	106CH	الكيمياء الطبية Medical Chemistry	2	2
	107PS	الفيزياء الطبية Medical Physics	2	2
	108BL	الاحياء Biology	2	2
	209DM	المادة السنية Dental Material	1	2
	210PR	صناعة الاسنان Prosthodontics	1	4
	211EL	Oral histology and Embryology	2	2

Second-year		انسجة فم و أجنة		
	212BC	الكيمياء الحياتية Biochemistry	2	2
	213GH	انسجة عامة General Histology	2	2
	214PH	فسلجة عامة General Physiology	2	2
	215 CB	جرانم البعث Criminal of Bath	1	0
	201AN	التشريح البشري General Anatomy	1	2
Third-year	316MB	الاحياء المجهرية Microbiology	2	2
	317PC	علم الادوية Pharmacology	2	2
	318CM	طب المجتمع Community Dentistry	1	2
	319CV	معالجة اسنان Conservative dentistry	1	2
	312 BC	تيجان وجسور	1	2
	320RL	اشعة الاسنان Dental Radiology	1	2
	321PA	امراض عامة General Pathology	2	2
	322OS	جراحة الفم Oral Surgery	1	2
	310PR	صناعة اسنان Prosthodontics	1	4
	311DE	Dental ethics اخلاقيات مهنة	1	0
Fourth-year	423GM	الطب العام General Medicine	1	0
	424GS	الجراحة العامة General Surgery	1	0
	422OS	جراحة الفم Oral Surgery	1	4
	419CV	معالجة الاسنان Conservative Dentistry	1	6
	425OP	امراض الفم Oral Pathology	1	4
	426OD	تقويم الاسنان Orthodontic	1	4
	427PE	طب اسنان الاطفال Pedodontic	1	2
	428PT	امراض اللثة Periodontics	1	3
	410PR	صناعة اسنان	1	3

		Prosthodontics		
Fifth-year	519CV	معالجة اسنان Conservative Dentistry	1	6
	529OM	طب الفم Oral Medicine	1	4
	522OS	جراحة الفم Oral Surgery	1	6
	530PAPD	طب اطفال الاسنان Pedodontics	1	3
	531PD	طب الاسنان الوقائي Prevention	1	3
	510PR	صناعة اسنان Prosthodontics	1	6
	526OD	تقويم الاسنان Orthodontics	1	4
	528PT	امراض اللثة Periodontics	1	3
		مشروع تخرج Research project	2	0

8. Expected learning outcomes of the program

Knowledge

Learning Outcomes 1

Transferred general and rehabilitative skills

Upon completion of the program, the graduate should be able to:

- 1- Recognition of the importance of biomedical sciences which form the basis for Understanding human growth, development, and health.
- 2- Describe the basic concepts of human physiology and anatomy.
- 3- Understanding the concepts of oral biology, including knowledge of the form and Function of teeth and associated structures in health and disease.
- 4- Explain the interrelationship between different systems of the human body.
- 5- Understanding the etiology, pathophysiology, diagnosis, prevention, and Management of oral diseases.
- 6- Awareness of Theoretical basis and knowledge of current developments in the The practice of dentistry.
- 7- Demonstrate principles of proper dental practice and management.
- 8- Thorough knowledge of basic and advanced care and management skills in clinical Dentistry.
- 9- Know and understand the basic knowledge and application of behavioral science And communication skills.
- 10- point out the methods of preventing and management of medical emergencies.
- 11- Understanding of the medico-legal and ethical considerations affecting the roles of dental and related health care personnel and their responsibilities in respect of Health and safety legislation.
- 12- Awareness of oral health needs in society.
- 13- Understanding of the principles of scientific research and how to evaluate the Scientific evidence to apply the evidence-based dental practice.
- 14- Current terminology used in dentistry and related subjects.
- 15- Point out the basis and significance of oral health promotion, nutritional education, and prevention of oral diseases in a population-based approach.
- 16- Identify the properties, limitations, and parameters by which the performance of dental materials is assessed.
- 17- Describe the scientific principles of sterilization and disinfection in the dental clinic and lab, to prevent cross-infection and provide personal and environmental safety

Skills

- Employing appropriate new methods.
- Employing new means that serve the information that the student has acquired to help him in his life.
- The flexibility of the curriculum made it subject to change.
- Employing the necessary skills for the educational process and the necessary techniques to obtain the necessary information.
- Ability through the personality of the instructor and the extent of his influence on the student.

Ethics

Developing students' abilities to share ideas

9. Teaching and Learning Strategies

- 1-interactive lectures.
- 2- Scientific research carried out by students in cooperation with the teacher.
- 3- Small group teaching.
- 4- E-learning through virtual classes and Google education
- 5- Problem-solving learning application by presenting pathological conditions and Discussing possible diagnostic and treatment methods.
- 6- Critical thinking.
- 7- Self-assessment.
- 8- Demonstration.
- 9- Collaboration between students.

10. Evaluation methods

The process of evaluating students is done through the quarterly, half-yearly and end of-year examinations where the college follows the electronic correction system

Multiple-choice questions and this system is characterized by giving accurate statistical

Results on the students' answers are presented to the College Council to perform Corrective procedures according to the results, the faculty member will be able to know

The student's response to the scientific subject.

11. Faculty

Faculty Members

Academic Rank		Specialization	Special Requirements/Skills (if applicable)		Number of the teaching staff	
					Staff	Lecturer
لمياء عبد الخالق محمد سعيد خلف	دكتوراه	فلسفة في طب الاسنان المجتمع			ملاك	
فلاح حسن حنون عياده	دكتوراه	علوم فيزياء			اعاره	
ايناس طه ابراهيم درويش	دكتوراه	طب الفم و الاسنان			ملاك	
سعدى عبد العزيز كزار	دكتوراه	جراحة انف واذن وحنجرة			ملاك	
محمد مهدي ياسين حسين الخفاجي	دكتوراه	اللغة العربية وادابها			اعاره	
غفران محمد مطيع قواس	دكتوراه	كيمياء تحليلية			ملاك	
ضحى جهاد محمد جهاد	دكتوراه	علوم الحياة			ملاك	
نازنين امان الله نصره الله جباري	دكتوراه	علم الاحياء			ملاك	
ياسين حسين عويد وسمى	دكتوراه	علوم الحياة			ملاك	
ديار خالد بكر ايوب	دكتوراه	طب الاسنان			ملاك	
نرمين محمد منير يوسف	دكتوراه	علوم حياة			ملاك	
عماد محمود حسان	دكتوراه	طب اسنان			ملاك	
جاسم محمد احمد حيدر	دكتوراه	فسلجه			ملاك	
عباس مطرود باشي موسى	دكتوراه	كيمياء فيزيائية			ملاك	
عبد الجبار عباس علي عبد	دكتوراه	علوم الكيمياء			ملاك	
محسن عبد علي عبد الصاحب الحمامي	دكتوراه	السايتولاثلوجي			ملاك	
سعد محمد حسن فتحي	دكتوراه	التشريح			ملاك	
شيماء ناهي نعيم دفار	دكتوراه	فسلجة				محاضر
عبد الحسن مهدي صالح علي	دكتوراه	الطب والجراحة العامة				محاضر
مرتضى محمد باقر عيسى	دكتوراه	طب الاسنان			ملاك	
بسام كريم حمد امين	دكتوراه	طب الاسنان			ملاك	

احمد صاحب فيصل عناد	ماجستير	علوم الكيمياء الحياتية				محاضر
تقى علي عمير نشمي	ماجستير	علوم فيزياء			ملاك	
رزكار رحمن غفور محبي الدين	ماجستير	علوم الحياة			ملاك	
اديان احمد حسن هليل	ماجستير	قانون			ملاك	
حيدر راضي سعود محمد	ماجستير	علوم الكيمياء			ملاك	
محمد علي مونس حمزة	ماجستير	الكيمياء الحياتية السريية			ملاك	
حيدر اسعد فرهود محي	ماجستير	علوم الحياة / الاحياء المجهرية			ملاك	
محمد نجم عبد البوشهاب	ماجستير	علوم الفيزياء			ملاك	
جيلان ضاحي حسن سويف	ماجستير	طب الاسنان				محاضر
ناهد محمود احمد جمعه	ماجستير	الكيمياء العضوية			ملاك	
زهراء صاحب مزعل علي	ماجستير	طب الاسنان			ملاك	
حسام شلمان حمادي عبد الله	ماجستير	علوم الكيمياء			ملاك	
مظفر فاضل جدوع ضيدان	ماجستير	طب الاسنان				محاضر
صادق مجيد حميد	ماجستير	قانون خاص			ملاك	
احمد كريم كاظم فنجان	دكتوراه	هندسة الحاسبات				محاضر
هند ماجد خلف ساجت	ماجستير	قانون خاص			ملاك	
سعد عبد العالي عباس صوييف	ماجستير	طب الاسنان			ملاك	
نور علاء ناصر حسين	ماجستير	الرياضيات			ملاك	
حارث احمد عبد الحسين حياوي	ماجستير	طب الاسنان			ملاك	
هدى علاء ناصر حسين	ماجستير	علوم الحياة / احياء مجهرية			ملاك	
سراب سلمان كاظم جواد	ماجستير	علوم الحياة			ملاك	
ابتهال عطيه حبيب كاطع	ماجستير	طب اسنان			ملاك	

12 Professional Development

Mentoring new faculty members

- 1- Holding training courses on teaching methods
- 2- courses and workshops on scientific research skills

Professional development of faculty members

- 1- Participation in conferences
- 2- - Courses and workshops on scientific research skills

13- The most important sources of information about the program

- 1- College and university website.
- 2- Student guide.
- 3- College registration.

Acceptance criterion

Central admission / according to the requirements of the Ministry of Higher Education and Scientific Research.

Program development plan

Forming a curriculum development committee consisting of experts in the subjects, educational specialists, and clinical practitioners to design a comprehensive, evidence-based curriculum.

Defining learning outcomes, competencies, and goals aligned with national or international standards for dental education.

Employing experienced and qualified faculty members with expertise in various dental medical specialties, clinical practice, education, and research.

Providing professional development opportunities for faculty members through workshops and resources to enhance teaching skills, curriculum design, assessment methods, and research productivity.

Establishing orientation programs and support systems for faculty members to enhance collaboration, innovation, and continuous improvement in teaching and learning.

Evaluating and securing the necessary infrastructure, facilities, equipment, and resources to support the BDS program, including lecture halls, laboratories, dental clinics, simulation centers, libraries, and information technology infrastructure.

Investing in high-tech dental equipment, tools, materials, and technology to provide practical training for students and clinical experience in both simulated environments and real-life settings.

Curriculum Skills Outline

Please check the boxes corresponding to the individual learning outcomes from the program being evaluated

Learning outcomes required from the program																Essential or optional?	Course Name	Course Code	year/level
Transferred general and qualification skills (other skills related to employability and personal development)				Emotional and value goals				Program specific objectives				Cognitive goals							
4ا	3ا	2ا	1ا	4ع	3ع	2ع	1ع	4ب	3ب	2ب	1ب	4ا	3ا	2ا	1ا				
√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√		Medical Physics		First stage
√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√		Medicinal Chemistry		
√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√		Biology		
√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√		Computer		
√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√		Dental Anatomy		
√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√		General Anatomy		
√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√		Medicinal Terminology		
√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√		Human Right		
√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√		Arabic Language		

√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√		Baath Party crimes in Iraq		Second stage
√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√		General Histology		
√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√		General anatomy		
√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√		Dental material		
√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√		Prosthetics		
√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√		oral histology and Embryology		
√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√		Physiology		
√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√		Biochemistry		
√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√		Prosthodontics		Third stage
√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√		Operative		
√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√		Oral surgery		
√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√		Community Dentistry		

✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Pharmacology
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	General pathology
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Microbiology
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Dental Ethics
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Dental Radiology
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Prosthodontics
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Restorative
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Oral surgery
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Periodontology
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Orthodontics
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Oral medicine
Fourth stage																	

✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	General medicine	
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	General surgery	
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Endodontics	
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Prosthodontics	
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Restorative	
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Oral surgery	
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	General medicine	
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	periodontology	
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	endodontics	
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Orthodontics	
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Preventive dentistry	
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Res ear ch	

Fifth stage



The First Stage

Medical Chemistry

Course Description

1. Course Name	
Medical Chemistry	
2. Course Code	
106CH	
3. Semester / Year	
First year	
4. Description Preparation Date	
2025	
5. Available Attendance Forms	
Theoretical and practical	
6. Number of Credit Hours (Total) / Number of Units (Total)	
60 Theoretical and 60 practical	
7. Course administrator's name	
Name: ا.د. عباس مطرود باشي م.م. احمد صاحب فيصل	
8. Course Objectives	
Course objective	Course objectives <ul style="list-style-type: none">○ Introduction to biochemistry.○ Understand the functions and variables that occur in them, the irregularity in their levels, their life and disease implications, and ways to measure their levels Cognitive objectives <ul style="list-style-type: none">○ Enabling students to obtain knowledge, intellectual and skill understanding of the types of solutions○ Enabling students to obtain knowledge and intellectual and skill understanding to know and understand the variables that occur when the concentration of subjects changes on the health of the body○ Teaching the student, the relationship of general and inorganic chemistry to humans.○ Enabling students to obtain knowledge, intellectual understanding and skills to learn about the acid-base relationship on blood and its effects on the functions of organs.○ Enabling students to obtain knowledge, intellectual and skill understanding of PFR solutions and its system.○ Enabling students to obtain knowledge, intellectual and skill understanding of radiochemistry and the effects of radiation on human health

9. Teaching and Learning Strategies

Strategy	<ul style="list-style-type: none"> ○ Giving scientific and theoretical lectures through screens, PowerPoint, slides, and experiments ○ the process in the educational laboratories of the college.
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10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2	Acid, Base and Salt	Medical chemistry	A theoretical lecture using power point	Short, semester, half-year and final exams
2	2	salts, preparation of salts	Medical chemistry	A theoretical lecture using power point	Short, semester, half-year and final exams
3	2	Fluid and electrolyte	Medical chemistry	A theoretical lecture using power point	Short, semester, half-year and final exams
4	2	Buffer-pH and Acid-Base Balance	Medical chemistry	A theoretical lecture using power point	Short, semester, half-year and final exams
5	2	acid-base balance and blood pH	Medical chemistry	A theoretical lecture using power point	Short, semester, half-year and final exams
6	2	Colloids and colloidal dispersions	Medical chemistry	A theoretical lecture using power point	Short, semester, half-year and final exams
7	2	Chirality in Biological Systems	Medical chemistry	A theoretical lecture using power point	Short, semester, half-year and final exams
8	2	concentration, preparation of solutions	Medical chemistry	A theoretical lecture using power point	Short, semester, half-year and final exams

9	2	Pollution	Medical chemistry	A theoretical lecture using power point	Short, semester, half-year and final exams
10	2	Radiochemistry	Medical chemistry	A theoretical lecture using power point	Short, semester, half-year and final exams
11	2	Alkanes and Cycloalkanes	Medical chemistry	A theoretical lecture using power point	Short, semester, half-year and final exams
12	2	Alkenes and Alkynes	Medical chemistry	A theoretical lecture using power point	Short, semester, half-year and final exams
13	2	Aromatic compounds	Medical chemistry	A theoretical lecture using power point	Short, semester, half-year and final exams
14	2	Aromatic compounds in Nature	Medical chemistry	A theoretical lecture using power point	Short, semester, half-year and final exams
15	2	Stereoisomers of Carbon	Medical chemistry	A theoretical lecture using power point	Short, semester, half-year and final exams
16	2	Diastereomers Classifying and Naming Alcohols	Medical chemistry	A theoretical lecture using power point	Short, semester, half-year and final exams
17	2	Alcohols, Phenols, Ethers and Thiols (preparation, reactions)	Medical chemistry	A theoretical lecture using power point	Short, semester, half-year and final exams
18	2	Carboxylic Acids And Their Derivatives , part 1	Medical chemistry	A theoretical lecture using power point	Short, semester, half-year and final exams

19	2	Carboxylic Acids And Their Derivatives , part 2	Medical chemistry	A theoretical lecture using power point	Short, semester, half-year and final exams
20	2	Aldehydes and ketones	Medical chemistry	A theoretical lecture using power point	Short, semester, half-year and final exams
21	2	Carbohydrates	Medical chemistry	A theoretical lecture using power point	Short, semester, half-year and final exams
22	2	Monosaccharide's	Medical chemistry	A theoretical lecture using power point	Short, semester, half-year and final exams
23	2	Disaccharides Carbohydrates and oral health	Medical chemistry	A theoretical lecture using power point	Short, semester, half-year and final exams
24	2	Lipids Classification	Medical chemistry	A theoretical lecture using power point	Short, semester, half-year and final exams
25	2	Derived lipids The role of lipids in teeth diseases	Medical chemistry	A theoretical lecture using power point	Short, semester, half-year and final exams
26	2	Proteins	Medical chemistry	A theoretical lecture using power point	Short, semester, half-year and final exams
27	2	Amino acids Effects of protein on oral health	Medical chemistry	A theoretical lecture using power point	Short, semester, half-year and final exams
28	2	Nucleic Acids	Medical chemistry	A theoretical lecture using power point	Short, semester, half-year and final exams

29	2	Nucleosides, Nucleotides	Medical chemistry	A theoretical lecture using power point	Short, semester, half-year and final exams
30	2	Dioxy and ribo Nucliec acids	Medical chemistry	A theoretical lecture using power point	Short, semester, half-year and final exams

11. Course evaluation

- Daily exam scores
- Semester Exams
- Weekly reports of practical experiences
- Daily attendance and participation in scientific questions/activity

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	<ul style="list-style-type: none"> ○ Lectures summarizing the important topics.
Main references	<ul style="list-style-type: none"> ○ The Chemical Basis of Life. George H. Schmid ○ The Chemistry of Medical and Dental Materials. Nicholson .W .J

Dental Anatomy

Course Description

1. Course Name	
Dental anatomy	
2. Course Code	
104DA	
3. Semester / Year	
First year	
4. Description Preparation Date	
2025	
5. Available Attendance Forms	
Theoretical and practical	
6. Number of Credit Hours (Total) / Number of Units (Total)	
60 theoretical + 60 practical	
7. Course administrator's name (mention all, if more than one name)	
Name: م.م. جيلان ضاحي حسن	
8. Course Objectives	
Course objective	Course objectives <ul style="list-style-type: none">○ Giving students an integrated practical program by training them to carve teeth on wax molds. Cognitive goals <ul style="list-style-type: none">○ Formulating and programming information in a way that enables the student to absorb it and increase knowledge regarding the theoretical and practical aspects.○ Introducing the student to the anatomical model of the teeth. Skill objectives for the course <ul style="list-style-type: none">○ Training students on the process of carving teeth on wax molds, depending on the measurements of each tooth.
9. Teaching and Learning Strategies	
Strategy	<ul style="list-style-type: none">○ Giving scientific and theoretical lectures through displays, PowerPoint, and slides, and practical experiments in the educational laboratories of the college.

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2	Introduction	Dental anatomy	A theoretical lecture using power point	Short, semester, half-year and final exams
2	2	Numbering system	Dental anatomy	A theoretical lecture using power point	Short, semester, half-year and final exams
3	2	Practical demonstration of Carving a Cube (1cm*1cm*1cm)	Dental anatomy	A theoretical lecture using power point	Short, semester, half-year and final exams
4	2	-Introduction to Anatomical landmarks on Teeth models. -Carving of a cube	Dental anatomy	A theoretical lecture using power point	Short, semester, half-year and final exams
5	2	Description & Carving of the Labial Aspect of P. Max. Right Central Incisor.	Dental anatomy	A theoretical lecture using power point	Short, semester, half-year and final exams
6	2	Description & Carving of the Mesial aspect of P. Max. Right Central Incisor	Dental anatomy	A theoretical lecture using power point	Short, semester, half-year and final exams
7	2	Description ,Carving & Finishing of the Incisal Aspect of Permanent Max. Right Central Incisor.	Dental anatomy	A theoretical lecture using power point	Short, semester, half-year and final exams
8	2	Practical Training of Carving of P. Max. Right Central Incisor	Dental anatomy	A theoretical lecture using power point	Short, semester, half-year and final exams
9	2	Permanent Maxillary Lateral Incisor Practical Exam. Of Carving of P. Max. Right Central Incisor	Dental anatomy	A theoretical lecture using power point	Short, semester, half-year and final exams

10	2	Description & Carving of the Labial & Mesial Aspects of P. Max. Right Canine	Dental anatomy	A theoretical lecture using power point	Short, semester, half-year and final exams
11	2	Permanent Mandibular Incisors Description, Carving & Finishing of the Incisal Aspect of P Max. Right Canine.	Dental anatomy	A theoretical lecture using power point	Short, semester, half-year and final exams
12	2	Practical Training of Carving of P. Max. Right Canine.	Dental anatomy	A theoretical lecture using power point	Short, semester, half-year and final exams
13	2	Practical Exam. of Carving of P. Max. Right Canine.	Dental anatomy	A theoretical lecture using power point	Short, semester, half-year and final exams
14	2	Mid Year Practical Examination of Tooth Carving.	Dental anatomy	A theoretical lecture using power point	Short, semester, half-year and final exams
15	2	Description & Carving of the Buccal & Mesial Aspects of P. Max. Right 1 st Premolar	Dental anatomy	A theoretical lecture using power point	Short, semester, half-year and final exams
16	2	Description, Carving & Finishing of the Occlusal Aspect of P. Max. Right 1 st Premolar.	Dental anatomy	A theoretical lecture using power point	Short, semester, half-year and final exams
17	2	Practical Training of Carving of P. Max. Right 1 st Premola	Dental anatomy	A theoretical lecture using power point	Short, semester, half-year and final exams
18	2	Practical Exam. Of Carving of P. Max. Right 1 st Premolar	Dental anatomy	A theoretical lecture using power point	Short, semester, half-year and final exams
19	2	Description & Carving of the Buccal & Mesial Aspects of P. Mand. Right 1 st Premolar	Dental anatomy	A theoretical lecture using power point	Short, semester, half-year and final exams

20	2	Description, Carving & Finishing of the Occlusal Aspect of P.Mand. Right 1 st Premolar.	Dental anatomy	A theoretical lecture using power point	Short, semester, half-year and final exams
21	2	Practical Training of Carving of P. Mand. Right 1 st Premolar	Dental anatomy	A theoretical lecture using power point	Short, semester, half-year and final exams
22	2	Practical Exam. Of Carving of P. Mand. Right 1 st Premolar	Dental anatomy	A theoretical lecture using power point	Short, semester, half-year and final exams
23	2	Description & Carving of the Buccal & Mesial Aspects of PMax.Right 1 st Molar	Dental anatomy	A theoretical lecture using power point	Short, semester, half-year and final exams
24	2	Description, Carving & Finishing of the Occlusal Aspect of P. Max. Right 1 st Molar	Dental anatomy	A theoretical lecture using power point	Short, semester, half-year and final exams
25	2	Practical Training of Carving of P. Max. Right 1 st molar	Dental anatomy	A theoretical lecture using power point	Short, semester, half-year and final exams
26	2	Practical Exam. of Carving of P. Max. Right 1 st molar.	Dental anatomy	A theoretical lecture using power point	Short, semester, half-year and final exams
27	2	Description & Carving of the Buccal & Mesial Aspects of P. Mand. Right 1 st Molar	Dental anatomy	A theoretical lecture using power point	Short, semester, half-year and final exams
28	2	Description ,Carving & Finishing of the Occlusal aspect of P.Mand 1st Molar/Practical Training of Carving p.Mand 1st molar.	Dental anatomy	A theoretical lecture using power point	Short, semester, half-year and final exams

29	2	Practical Examination of Carving of P. Mand. Right 1st molar	Dental anatomy	A theoretical lecture using power point	Short, semester, half-year and final exams
30	2	Final Oral & Practical Examination of Tooth carving	Dental anatomy	A theoretical lecture using power point	Short, semester, half-year and final exams

11. Course evaluation

- Daily exam grades
- Semester exams
- Weekly reports of practical experiments
- Daily attendance and participation in scientific questions/activity

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	<ul style="list-style-type: none"> ○ Lectures summarizes the important topics.
Main references	<ul style="list-style-type: none"> ○ Woelfel's Dental Anatomy It's Relevance to Dentistry. ○ Wheeler's Atlas of Tooth Form

General Anatomy

Course Description

1. Course Name	
General anatomy	
2. Course Code	
103CS	
3. Semester / Year	
First year	
4. Description Preparation Date	
2025	
5. Available Attendance Forms	
Theoretical and practical	
6. Number of Credit Hours (Total) / Number of Units (Total)	
30 theoretical + 60 practical	
7. Course administrator's name	
Name ا.م.د سعد محمد حسن م.د. سعدي عبد العزيز كزار	
8. Course Objectives	
Course objective	Course objectives <ul style="list-style-type: none">○ Scientific preparation of the student with regard to human anatomy, especially with regard to the anatomy of the head and neck and its relationship to his exact specialization as a dentist. Cognitive goals <ul style="list-style-type: none">○ Gain knowledge of human anatomy.○ Focusing on the anatomy of the head and neck and its relationship to his specialty as a dentist The skills objectives of the course <ul style="list-style-type: none">○ The relationship of human anatomy to the student's work as a human dentist.○ Gain full knowledge of the organs of the human body.
9. Teaching and Learning Strategies	
Strategy	<ul style="list-style-type: none">○ Giving lectures through displays, PowerPoint and slides.○ Preparing seminars by students under the supervision of professors.○ Educational films.○ Practical laboratory on anatomical models

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	1	Introduction to human anatomy	General anatomy	A theoretical lecture using power point	Short, semester, half-year and final exams
2	1	Basic structures part 1 (Skin, Fasciae, Muscle, Joints, Ligament, Bursae)	General anatomy	A theoretical lecture using power point	Short, semester, half-year and final exams
3	2	Basic structures part 2 (bone, Cartilage, Blood Vessels, Lymphatic System)	General anatomy	A theoretical lecture using power point	Short, semester, half-year and final exams
4	1	Basic structures part 3 (Nervous System, Mucous Membranes, Serous Membranes)	General anatomy	A theoretical lecture using power point	Short, semester, half-year and final exams
5	2	Skeletal system of the body: Skull :Cranial Bones	General anatomy	A theoretical lecture using power point	Short, semester, half-year and final exams
6	2	Skeletal system of the body: Skull : Facial Bones	General anatomy	A theoretical lecture using power point	Short, semester, half-year and final exams
7	2	External Views of the Skull	General anatomy	A theoretical lecture using power point	Short, semester, half-year and final exams
8	2	<ul style="list-style-type: none"> • The Cranial Cavity • Major Foramina and Fissures locations and structures pass through • Neonatal Skull 	General anatomy	A theoretical lecture using power point	Short, semester, half-year and final exams
9	2	<input type="checkbox"/> Skeleton of the Orbital Region, Openings into the Orbital Cavity <input type="checkbox"/> Skeleton of the External Nose, nasal	General anatomy	A theoretical lecture using power point	Short, semester, half-year and final exams

		cavity, Paranasal Sinuses <input type="checkbox"/> Auditory ossicles Hyoid bone			
10	2	The Vertebral Column	General Anatomy	A theoretical lecture using power point	Short, semester, half-year and final exams
11	2	<input type="checkbox"/> Structure of the Thoracic Wall <input type="checkbox"/> Joints of the Chest Wall 2 4 <input type="checkbox"/> Suprapleural Membrane <input type="checkbox"/> Diaphragm <input type="checkbox"/> Surface Anatomy	General anatomy	A theoretical lecture using power point	Short, semester, half-year and final exams
12	2	Thoracic cavity: Mediastinum, Pleurae, Trachea, Bronchi, Lungs	General anatomy	A theoretical lecture using power point	Short, semester, half-year and final exams
13	3	Pericardium, Heart, Large arteries, veins and nerves of Thorax	General anatomy	A theoretical lecture using power point	Short, semester, half-year and final exams
14	2	<input type="checkbox"/> Bones of the Shoulder (Pectoral girdle) girdles <input type="checkbox"/> Bones of the Upper extremities	General anatomy	A theoretical lecture using power point	Short, semester, half-year and final exams
15	2	<input type="checkbox"/> Bones of the Pelvic girdle <input type="checkbox"/> Bones of the Lower extremities	General anatomy	A theoretical lecture using power point	Short, semester, half-year and final exams
16	2	Abdominal cavity and organs	General anatomy	A theoretical lecture using power point	Short, semester, half-year and final exams

11. Course evaluation

- Daily exam scores
- Semester Exams
- Weekly reports of practical experiences
- Daily attendance and participation in scientific questions / activity

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	<ul style="list-style-type: none">○ Lectures summarizing the important topics.
Main references	<ul style="list-style-type: none">○ Snell's Clinical Anatomy by Regions, 10th edition. Wolters Kluwer 2019○ Netter's Head and Neck Anatomy for Dentistry, 3rd edition. Elsevier 2017○ Gray's Atlas of Anatomy, 3rd edition. Elsevier 2021

Biology

Course Description

1. Course Name	
Biology	
2. Course Code	
108BL	
3. Semester / Year	
First year	
4. Description Preparation Date	
2025	
5. Available Attendance Forms	
Theoretical and practical	
6. Number of Credit Hours (Total) / Number of Units (Total)	
60 theoretical + 60 practical	
7. Course administrator's name (mention all, if more than one name)	
Name: م.د. نرمن محمدمنير	
8. Course Objectives	
Course objective	<p>Course objectives</p> <ul style="list-style-type: none">○ An introduction to the life sciences and an understanding of its various branches such as parasites, cytology, histology and genetic. <p>Cognitive goals</p> <ul style="list-style-type: none">○ Formulating and programming information in a way that enables the student to absorb it and increase knowledge regarding the theoretical and practical aspects.○ Teaching the student, the relationship of life sciences to humans and their impact on the health of his body.● The relationship of parasitology and cytology to human diseases.● The relationship of genetics to human health.● The relationship of histology to humans.● The relationship of cytology to blood. <p>Curriculum-Specific Skills Objectives</p> <ul style="list-style-type: none">○ According to the teaching method used, such as discussion, lecture, questioning.○ Use laboratories and scientific experiments to increase student understanding and see this in practice.○ The method of sudden exams and kozas.

9. Teaching and Learning Strategies

Strategy	<ul style="list-style-type: none"> ○ Giving scientific and theoretical lectures through displays, PowerPoint, and slides, and practical experiments in the educational laboratories of the college
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10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2	Introduction to Medical and Oral Biology	Biology	A theoretical lecture using power point	Short, semester, half-year and final exams
2	2	Prokaryotes and Eukaryotes	Biology	A theoretical lecture using power point	Short, semester, half-year and final exams
3	2	General and oral immunity	Biology	A theoretical lecture using power point	Short, semester, half-year and final exams
4	2	Bacteria and oral disease	Biology	A theoretical lecture using power point	Short, semester, half-year and final exams
5	2	Genetic and its role to oral disease.	Biology	A theoretical lecture using power point	Short, semester, half-year and final exams
6	2	Simple epithelial tissue (tongue)	Biology	A theoretical lecture using power point	Short, semester, half-year and final exams
7	2	Stratified epithelial tissue	Biology	A theoretical lecture using power point	Short, semester, half-year and final exams
8	2	Glandular epithelial tissue (salivary gland)	Biology	A theoretical lecture using power point	Short, semester, half-year and final exams
9	2	General connective tissue (blood)	Biology	A theoretical lecture using power point	Short, semester, half-year and final exams

10	2	Muscular tissue	Biology	A theoretical lecture using power point	Short, semester, half-year and final exams
11	2	Nerve Tissue	Biology	A theoretical lecture using power point	Short, semester, half-year and final exams
12	2	Cell structure oral mucous membrane	Biology	A theoretical lecture using power point	Short, semester, half-year and final exams
13	2	Plasma membrane structure	Biology	A theoretical lecture using power point	Short, semester, half-year and final exams
14	2	Passage of materials a cross cell membrane	Biology	A theoretical lecture using power point	Short, semester, half-year and final exams
15	2	Cell Cycle	Biology	A theoretical lecture using power point	Short, semester, half-year and final exams
16	2	Mitosis and meiosis	Biology	A theoretical lecture using power point	Short, semester, half-year and final exams
17	2	Cell energy	Biology	A theoretical lecture using power point	Short, semester, half-year and final exams
18	2	Nucleic Acid DNA and RNA	Biology	A theoretical lecture using power point	Short, semester, half-year and final exams
19	2	Introduction to parasitology	Biology	A theoretical lecture using power point	Short, semester, half-year and final exams
20	2	Types of parasites and host	Biology	A theoretical lecture using power point	Short, semester, half-year and final exams
21	2	General and oral protozoa	Biology	A theoretical lecture using power point	Short, semester, half-year and final exams

22	2	Human amoebas, <i>E. histolytica</i>, <i>E. coli</i>, <i>E. gingivalis</i>	Biology	A theoretical lecture using power point	Short, semester, half-year and final exams
23	2	Flagellates, <i>Giardia lamblia</i>, <i>Trichomonas tenax</i>, <i>T. hominas</i>, <i>T. vaginalis</i>	Biology	A theoretical lecture using power point	Short, semester, half-year and final exams
24	2	<i>Leishmania</i> , cutaneous and vesiral	Biology	A theoretical lecture using power point	Short, semester, half-year and final exams
25	2	Sporozoa, <i>Plasmodium spp.</i>	Biology	A theoretical lecture using power point	Short, semester, half-year and final exams
26	2	<i>Toxoplasma gondii</i>	Biology	A theoretical lecture using power point	Short, semester, half-year and final exams
27	2	Nemathelminthes, <i>Ascaris lumbricoides</i>,	Biology	A theoretical lecture using power point	Short, semester, half-year and final exams
28	2	<i>Ancylostoma duodenale</i>, <i>Entrobilus vermicularis</i>	Biology	A theoretical lecture using power point	Short, semester, half-year and final exams
29	2	Platyhelminthes, <i>Fasciola hepatica</i>	Biology	A theoretical lecture using power point	Short, semester, half-year and final exams
30	2	<i>Schistosoma spp.</i>	Biology	A theoretical lecture using power point	Short, semester, half-year and final exams

11. Course evaluation

- Daily exam scores
- Semester Exams
- Weekly reports of practical experiences
- Daily attendance and participation in scientific questions / activity

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	<ul style="list-style-type: none">○ Lectures summarizing the important topics.
Main references	<ul style="list-style-type: none">○ Human biology,8 edition Inderbir Singh○ Cell Biology,3 edition.2017. Thomas ,D; William ,C; Jennefer , L and Graham, T

Medical Physics

Course Description

1. Course Name	
Medical Physics	
2. Course Code	
107PS	
3. Semester / Year	
First year	
4. Description Preparation Date	
2025	
5. Available Attendance Forms	
Theoretical and practical	
6. Number of Credit Hours (Total) / Number of Units (Total)	
60 theoretical + 60 practical	
7. Course administrator's name (mention all, if more than one name)	
Name: ا.د. فلاح حسن حنون م.م. محمد نجم عبد	
8. Course Objectives	
Course objective	Course objectives <ul style="list-style-type: none">○ Enabling the student to know the physical ideas related to the human body from two aspects: the physical functions of the organs of the human body and medical applications in diagnosis and treatment, description and application. Cognitive goals <ul style="list-style-type: none">○ Formulating and programming information in a way that enables the student to absorb it and increase knowledge regarding the theoretical and practical aspects.○ Teaching the student the relationship of physics to humans and their physical impact on the human body○ Teaching the student the physical applications of the human body in diagnosis and treatment.○ Improving the performance of the human body by physical means. Curriculum-Specific Skills Objectives <ul style="list-style-type: none">○ According to the teaching method used, such as discussion, lecture, questioning.○ Use laboratories and scientific experiments to increase student understanding and see it in action

9. Teaching and Learning Strategies

Strategy	<ul style="list-style-type: none"> ○ Giving scientific and theoretical lectures through displays and PowerPoint and practical experiments in the educational laboratories of the college.
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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. Modeling, Accuracy, Precision, False Positive, False Negative	Medical Physics	A theoretical lecture using power point	Short, semester, half-year and final exams
	2				
3-4	2	Force on & in body: Static forces :(type of levers with medical examples). Dynamic forces (Centrifuge).	Medical Physics	A theoretical lecture using power point	Short, semester, half-year and final exams
	2				
5-6	2	Physics of the skeleton: Bones:(Function of bones, Composition of bone, bone remodeling, compact and trabecular bone) Stress-strain curve :(compressive and tensile stress, young modulus). Bone joints :(Synovial fluid, coefficient of a joint)..	Medical Physics	A theoretical lecture using power point	Short, semester, half-year and final exams

7-8	2	<p><i>Heat and cold in medicine:</i></p> <p>Physical basis of heat and temperature, Temperature scales, Converting Temperatures, Temperature in Dentistry, Thermal expansion, (Linear, Area, Volume Thermal Expansion), Thermometry, Heat therapy, Thermography, Cold in medicine and cryosurgery. Thermal conductivity</p>	Medical Physics	A theoretical lecture using power point	Short, semester, half-year and final exams
	2				
9-10	2	<p><i>Energy, work and power of the body:</i></p> <p>First law of thermodynamic. Energy change in the body (Met, Basal metabolic rate (BMR).</p> <p>Work and power. Efficiency heat losses from the body. Anaerobic phase and aerobic phase.</p> <p>Hypothalamus (body's thermostat).Heat lost by (radiation, convection, evaporation of sweat and respiration).</p>	Medical Physics	A theoretical lecture using power point	Short, semester, half-year and final exams
	2				
11-12	2	<p><i>Pressure:</i></p> <p>Definition, absolute pressure, gauge pressure, negative pressure, unit of</p>	Medical Physics	A theoretical lecture using power point	Short, semester, half-year and final exams

	2	pressure. Measurement of pressure in the body (Manometer). Pressure inside the skull. Eye pressure. Pressure in the skeleton. Pressure in the urinary bladder. Boyle's law: (pressure while diving). HOT (hyperbaric oxygen therapy).			
13-14	2	<i>Electricity within the body:</i> Electrical potential of nerves (resting potential, action potential in myelinated and unmyelinated nerves) Electromyogram (EMG). Electrical potential in the heart (electrocardiogram ECG). Electroencephalogram (EEG).	Medical Physics	A theoretical lecture using power point	Short, semester, half-year and final exams
15-16	2 2	<i>Sound in medicine:</i> Properties of sound. Stethoscope (including heart sound).mechanism of hearing	Medical Physics	A theoretical lecture using power point	Short, semester, half-year and final exams
17-18	2 2	<i>Ultrasound</i> (A-scan, B-scan, M-scan and Doppler effect). Physiological effect of ultrasound in therapy	Medical Physics	A theoretical lecture using power point	Short, semester, half-year and final exams

19-20	2 2	<i>Light in medicine:</i> Light nature, Planck Equation, (Reflection, Refraction and.	Medical Physics	A theoretical lecture using power point	Short, semester, half-year and final exams
21-22	2 2	Absorption of Light, Properties of light), Diffuse reflection, Specular reflection, Phototherapy, Application of ultraviolet and infrared light in medicine, Tanning and Skin Cancer	Medical Physics	A theoretical lecture using power point	Short, semester, half-year and final exams
23-24	2	<i>Laser in medicine.</i> What is laser? Application of laser in medicine Atomic Transitions, Population inversion, Laser Typical Characteristics, General Applications of Laser, Laser Dental Applications, Reshape gum tissue, Laser aided teeth whitening, Laser Drill..	Medical Physics	A theoretical lecture using power point	Short, semester, half-year and final exams
25-26	2 2	<i>Physics of eye and vision:</i> 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	A theoretical lecture using power point	Short, semester, half-year and final exams

27-28	2 2	<i>Physics of diagnostic X-ray:</i> 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	A theoretical lecture using power point	Short, semester, half-year and final exams
29	2	<i>Physics of nuclear medicine:</i> 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.	Medical Physics	A theoretical lecture using power point	Short, semester, half-year and final exams
30	2	<i>Physics of radiation therapy:</i> The dose units (Rad and Gray).Principles of radiation therapy. Brach therapy, quality factor (QF).	Medical Physics	A theoretical lecture using power point	Short, semester, half-year and final exams

11. Course evaluation

- Daily exam scores
- Semester Exams
- Weekly reports of practical experiences
- Daily attendance and participation in scientific questions / activity

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	<ul style="list-style-type: none">○ Lectures summarizing the important topics.
Main references	<ul style="list-style-type: none">○ Medical Physics John Cameron○ Physics of the Human Body Irving Herman

Computer

Course Description

1. Course Name	
Computer	
2. Course Code	
103CS	
3. Semester / Year	
First year	
4. Description Preparation Date	
2025	
5. Available Attendance Forms	
Theoretical and practical	
6. Number of Credit Hours (Total) / Number of Units (Total)	
30 theoretical + 60 practical	
7. Course administrator's name (mention all, if more than one name)	
Name: م.م. احمد كريم كاظم	
8. Course Objectives	
Course objective	Course objectives <ul style="list-style-type: none">○ Introduction to computer science and teaches the student the performance of computers and approved methods and programs and the use of computers in the medical field.○ Teaching the student how to use the computer Cognitive objectives <ul style="list-style-type: none">○ Teaching the student how to use the computer○ How to use the software○ The skills objectives of the course The skills objectives of the course <ul style="list-style-type: none">○ Teaching the student the functions of using a computer○ The use of computers in the medical field
9. Teaching and Learning Strategies	
Strategy	<ul style="list-style-type: none">○ Teaching aids computers○ Theoretical lectures and practical laboratories

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	1	Introduction about computer /Hardware and Software/computer structure/ Floppy magnetic disks	Computer	A theoretical lecture using power point	Short, semester, half-year and final exams
2	1	E-learning	Computer	A theoretical lecture using power point	Short, semester, half-year and final exams
3	1	Introduction to E-learning Google Classroom Platform Google drive	Computer	A theoretical lecture using power point	Short, semester, half-year and final exams
4	1	Google forms	Computer	A theoretical lecture using power point	Short, semester, half-year and final exams
5	1	Online conferencing	Computer	A theoretical lecture using power point	Short, semester, half-year and final exams
6	1	Introduction about Windows /A look at Windows 10/Stating Windows 10/Working with a windows Program	Computer	A theoretical lecture using power point	Short, semester, half-year and final exams
7	1	Working with files and folders/ Using My computer	Computer	A theoretical lecture using power point	Short, semester, half-year and final exams
8	1	Working with Taskbar and Desktop	Computer	A theoretical lecture using power point	Short, semester, half-year and final exams
9	1	Using Windows Accessories	Computer	A theoretical lecture using power point	Short, semester, half-year and final exams

10	1	A look at Control Panel	Computer	A theoretical lecture using power point	Short, semester, half-year and final exams
11	1	Widows Explorer	Computer	A theoretical lecture using power point	Short, semester, half-year and final exams
12	1	Libraries	Computer	A theoretical lecture using power point	Short, semester, half-year and final exams
13	1	Introduction about Microsoft Word 2016	Computer	A theoretical lecture using power point	Short, semester, half-year and final exams
14	1	A look at Microsoft Word /	Computer	A theoretical lecture using power point	Short, semester, half-year and final exams
15	1	Formatting paragraphs	Computer	A theoretical lecture using power point	Short, semester, half-year and final exams
16	1	Proofing documents	Computer	A theoretical lecture using power point	Short, semester, half-year and final exams
17	1	Adding Tables	Computer	A theoretical lecture using power point	Short, semester, half-year and final exams
18	1	Inserting Graphic Elements	Computer	A theoretical lecture using power point	Short, semester, half-year and final exams
19	1	Controlling page Appearance	Computer	A theoretical lecture using power point	Short, semester, half-year and final exams
20	1	20 Introduction about Excels /A Look at Microsoft Excel	Computer	A theoretical lecture using power point	Short, semester, half-year and final exams
21	1	Modifying A Worksheet /performing Calculation	Computer	A theoretical lecture using power point	Short, semester, half-year and final exams

22	1	Formatting a worksheet/ Developing a work book	Computer	A theoretical lecture using power point	Short, semester, half-year and final exams
23	1	Printing Workbook Contents/Customizing Layout	Computer	A theoretical lecture using power point	Short, semester, half-year and final exams
24	1	Introduction about Microsoft Access/ A look at Microsoft Access	Computer	A theoretical lecture using power point	Short, semester, half-year and final exams
25	1	Creating Data tables /properties of the fields	Computer	A theoretical lecture using power point	Short, semester, half-year and final exams
26	1	Querying the database/Designing Forms/Producing reports	Computer	A theoretical lecture using power point	Short, semester, half-year and final exams
27	1	Introduction about Microsoft Power point/starting power point2016	Computer	A theoretical lecture using power point	Short, semester, half-year and final exams
28	1	Formatting text/Using graphics and Text	Computer	A theoretical lecture using power point	Short, semester, half-year and final exams
29	1	Manipulating the slides/Using Multimedia Elements	Computer	A theoretical lecture using power point	Short, semester, half-year and final exams
30	1	Power point Management	Computer	A theoretical lecture using power point	Short, semester, half-year and final exams

11. Course evaluation

- Daily exam scores
- Semester Exams
- Weekly reports of practical experiences
- Daily attendance and participation in scientific questions / activity

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)

- Lectures summarizing the important topics.

Main references	<ul style="list-style-type: none">○ E-learning concepts and Techniques. Mousa Afane. Vince Basile, Justin. Bennett, Pamela. Berman, Michael Bond○ Computer application in Dr. P. S. Aithal management. William ,C; Jennefer , L and Graham, T.
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Medical Terminology

Course Description

1. Course Name	
Medical Terminology	
2. Course Code	
102MT	
3. Semester / Year	
First year	
4. Description Preparation Date	
2025	
5. Available Attendance Forms	
Theoretical	
6. Number of Credit Hours (Total) / Number of Units (Total)	
30 theoretical	
7. Course administrator's name (mention all, if more than one name)	
Name م.د. رياض عيدان عبد	
8. Course Objectives	
Course objective	<ul style="list-style-type: none">○ Using visual cues to remember complex terms○ Deciphering terms by learning basic latin component (root, suffix, prefix)○ Bulk learning using self-made acronyms○ Using engaging guides and workbooks
9. Teaching and Learning Strategies	
Strategy	<ul style="list-style-type: none">○ Giving scientific and theoretical lectures through displays, PowerPoint, and slides, and practical experiments in the educational laboratories of the college

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	1	Dental Terminology part (1)	Dental Terminology	A theoretical lecture using power point	Short, semester, half-year and final exams
2	1	Dental Terminology part 2	Dental Terminology	A theoretical lecture using power point	Short, semester, half-year and final exams
3	1	Dental Terminology part 3	Dental Terminology	A theoretical lecture using power point	Short, semester, half-year and final exams
4	1	Small Talk	Dental Terminology	A theoretical lecture using power point	Short, semester, half-year and final exams
5	1	Common Mistakes	Dental Terminology	A theoretical lecture using power point	Short, semester, half-year and final exams
6	1	Passive Voice	Dental Terminology	A theoretical lecture using power point	Short, semester, half-year and final exams
7	1	Direct and Indirect Speech	Dental Terminology	A theoretical lecture using power point	Short, semester, half-year and final exams
8	1	Synonyms in English	Dental Terminology	A theoretical lecture using power point	Short, semester, half-year and final exams
9	1	Adjectives	Dental Terminology	A theoretical lecture using power point	Short, semester, half-year and final exams
10	1	Integrating a quotation into essay	Dental Terminology	A theoretical lecture using power point	Short, semester, half-year and final exams
11	1	Preposition in English Grammar with examples	Dental Terminology	A theoretical lecture using power point	Short, semester, half-year and final exams

12	1	Idioms and Phrases	Dental Terminology	A theoretical lecture using power point	Short, semester, half-year and final exams
13	1	Writing Assignment	Dental Terminology	A theoretical lecture using power point	Short, semester, half-year and final exams
14	1	Pronunciation	Dental Terminology	A theoretical lecture using power point	Short, semester, half-year and final exams
15	1	Tenses	Dental Terminology	A theoretical lecture using power point	Short, semester, half-year and final exams
16	1	Synonyms and Ant	Dental Terminology	A theoretical lecture using power point	Short, semester, half-year and final exams
17	1	Paraphrasing	Dental Terminology	A theoretical lecture using power point	Short, semester, half-year and final exams
18	1	Essay writing	Dental Terminology	A theoretical lecture using power point	Short, semester, half-year and final exams

11. Course evaluation

- Daily exam scores
- Semester Exams
- Weekly reports of practical experiences
- Daily attendance and participation in scientific questions / activity

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)

- Lectures summarizing the important topics.

Main references

- Dental Terminology 3rd Edition. Dofka Charline M.
- A dictionary of Medical Dental ,Terminology

Human Rights

Course Description

1. Course Name	
Human Rights	
2. Course Code	
105HRAD	
3. Semester / Year	
First year	
4. Description Preparation Date	
2025	
5. Available Attendance Forms	
Theoretical	
6. Number of Credit Hours (Total) / Number of Units (Total)	
30 theoretical	
7. Course administrator's name (mention all, if more than one name)	
Name: م.م. هند ماجد خلف	
8. Course Objectives	
Course objective	Course objectives <ul style="list-style-type: none">○ The program provides a sure opportunity and a first step for the student in introducing his rights as well as the objective commitment to his duties. The course also seeks to spread a culture of human rights education in order to build a cohesive society in which justice, freedom and equality prevail. Cognitive objectives <ul style="list-style-type: none">○ Introduce the student to his/her rights○ Introduce the student to his/her duties towards society○ The skills objectives of the course○ Introduce the student to his/her rights
9. Teaching and Learning Strategies	
Strategy	<ul style="list-style-type: none">○ Giving lectures through display screens and PowerPoint

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	1	<p>المقدمة /الباب الأول في - حقوق الإنسان</p> <p>الفصل الأول /حقوق الإنسان في الحضارات القديمة</p> <p>المبحث الأول /حقوق الإنسان في الحضارات اليونانية والمصرية المطلب الأول /حقوق الإنسان في الحضارة اليونانية</p> <p>المطلب الثاني /حقوق الإنسان في الحضارة المصرية القديمة المبحث الثاني /حقوق الإنسان في الحضارات القديمة</p> <p>-</p>	Human Rights	A theoretical lecture using power point	Short, semester, half-year and final exams
2	1	<p>الفصل الثاني /حقوق الإنسان في الشرائع والأديان السماوية المبحث الأول /حقوق الإنسان في الديانات المسيحية واليهودية</p> <p>المبحث الثاني /حقوق الإنسان في الإسلام</p> <p>المطلب الأول /الإعلان العالمي لحقوق الإنسان</p>	Human Rights	A theoretical lecture using power point	Short, semester, half-year and final exams
3	1	<p>الفصل الثالث /مصادر حقوق الإنسان المبحث الأول /المصادر الدولية</p> <p>المطلب الأول /الإعلان العالمي لحقوق الإنسان</p>	Human Rights	A theoretical lecture using power point	Short, semester, half-year and final exams
4	1	<p>المطلب الثاني /العهدان الدوليان الخاصان بحقوق الإنسان</p>	Human Rights	A theoretical lecture using power point	Short, semester, half-year and final exams

5	1	المبحث الثاني / المصادر الوطنية المطلب الأول / إعلان حقوق الإنسان والمواطن (1789 اب 26 الفرنسي)	Human Rights	A theoretical lecture using power point	Short, semester, half-year and final exams
6	1	المطلب الثاني / الدساتير و الإعلانات الفرنسية التي تلت 1789 إعلان الحقوق لسنة	Human Rights	A theoretical lecture using power point	Short, semester, half-year and final exams
7	1	المطلب الثالث / دستور 2005 جمهورية العراق لسنة	Human Rights	A theoretical lecture using power point	Short, semester, half-year and final exams
8	1	الفصل الرابع / ضمانات حقوق الإنسان المبحث الأول / ضمانات حقوق الإنسان على الصعيد الداخلي المطلب الأول / الضمانات الدستورية	Human Rights	A theoretical lecture using power point	Short, semester, half-year and final exams
9	1	المطلب الثاني / الضمانات القضائية	Human Rights	A theoretical lecture using power point	Short, semester, half-year and final exams
10	1	المبحث الثاني / ضمانات حقوق الإنسان في الإسلام المطلب الأول / إقرار مبدأ ثنائية المسؤولية في المجتمع الإسلامي المطلب الثاني / الصفة الدينية للقانون الإسلامي	Human Rights	A theoretical lecture using power point	Short, semester, half-year and final exams
11	1	المطلب الثالث / بعض الأنظمة الإسلامية لمصلحة الفرد والجماعة والسلطات الحاكمة	Human Rights	A theoretical lecture using power point	Short, semester, half-year and final exams
12	1	المبحث الثالث / ضمانات حقوق الإنسان على الصعيد الدولي المطلب الأول / ميثاق الأمم المتحدة المطلب الثاني / الجمعية العامة للأمم المتحدة	Human Rights	A theoretical lecture using power point	Short, semester, half-year and final exams
13	1	الطلب الثالث / المجلس الاقتصادي والاجتماعي المطلب الرابع / مجلس حقوق الإنسان	Human Rights	A theoretical lecture using power point	Short, semester, half-year and final exams

14	1	المبحث الرابع / دور المنظمات الإقليمية في حماية حقوق الإنسان المطلب الأول / الاتفاقية الأوروبية لحقوق الإنسان	Human Rights	A theoretical lecture using power point	Short, semester, half-year and final exams
15	1	المطلب الثاني / الاتفاقية الأمريكية لحقوق الإنسان المطلب الثالث / الميثاق الإفريقي لحقوق الإنسان والشعوب المطلب الرابع / الميثاق العربي لحقوق الإنسان الفصل الخامس / مستقبل حقوق الإنسان المبحث الأول / التقدم التكنولوجي وأثره على الحقوق والحريات العامة للإنسان والحريات العامة	Human Rights	A theoretical lecture using power point	Short, semester, half-year and final exams
16	1	المطلب الأول / الأحزاب السياسية وحقوق الإنسان المطلب الثاني / دور الإعلام والتنشئة	Human Rights	A theoretical lecture using power point	Short, semester, half-year and final exams
17	1	المبحث الثاني / العولمة وحقوق الإنسان المطلب الأول / الخصوصية وحقوق الإنسان المطلب الثاني / الهيمنة وحقوق الإنسان	Human Rights	A theoretical lecture using power point	Short, semester, half-year and final exams
18	1	الفصل الأول / مفهوم الديمقراطية, تطوره تعريفه وإبعاده المبحث الأول / جذور مفهوم الديمقراطية و تطورها	Human Rights	A theoretical lecture using power point	Short, semester, half-year and final exams
19	1	المبحث الثاني / تعريف الديمقراطية	Human Rights	A theoretical lecture using power point	Short, semester, half-year and final exams
20	1	المبحث الثالث / الديمقراطية بين العالمية والخصوصية	Human Rights	A theoretical lecture using power point	Short, semester, half-year and final exams
21	1	الفصل الثاني / اشكال الديمقراطية المبحث الأول / الديمقراطية المباشرة المطلب الأول / مضمون الديمقراطية المباشرة المطلب الثاني / تطبيقات الديمقراطية	Human Rights	A theoretical lecture using power point	Short, semester, half-year and final exams

		المباشرة المطلب الثالث /تقدير نظام الديمقراطية المباشرة			
22	1	المبحث الثاني /الديمقراطية شبه المباشرة المطلب الأول /مفهوم الديمقراطية شبه المباشرة مطلي الثاني /مظاهر الديمقراطية شبه المباشرة	Human Rights	A theoretical lecture using power point	Short, semester, half-year and final exams
23	1	المطلب الثالث /تقدير نظام الديمقراطية شبه المباشرة المبحث الثالث /الديمقراطية التمثيلية	Human Rights	A theoretical lecture using power point	Short, semester, half-year and final exams
24	1	المطلب الاول /مفهوم النظام التمثيلي وطبيعته القانونية المطلب الثاني /أركان النظام التمثيلي	Human Rights	A theoretical lecture using power point	Short, semester, half-year and final exams
25	1	المطلب الثالث /اشكال النظام التمثيلي النيابي	Human Rights	A theoretical lecture using power point	Short, semester, half-year and final exams
26	1	المبحث الرابع / المجلس النيابي المطلب الأول / نظام المجلس النيابي الواحد ونظام المجلسين المطلب الثاني التنظيم الداخلي للمجلس النيابي	Human Rights	A theoretical lecture using power point	Short, semester, half-year and final exams
27	1	الفصل الثالث /أليه النظام التمثيلي النيابي :الانتخاب المبحث الأول /مفهوم الانتخاب وتكيفه القانوني المطلب واحد /مفهوم الانتخاب المطلب الثاني /التكيف القانوني للانتخاب المبحث الثاني /هيئة الناخبين المطلب الأول /مفهوم هيئة الناخبين المطلب الثاني /تكوين هيئة الناخبين	Human Rights	A theoretical lecture using power point	Short, semester, half-year and final exams
28	1	المطلب الثالث /المرشحون لانتخاب المبحث الثالث /تنظيم عملية الانتخاب المطلب الأول /تحديد الدوائر الانتخابية المطلب الثاني /الدوائر الانتخابية المطلب الثالث /المرشحون	Human Rights	A theoretical lecture using power point	Short, semester, half-year and final exams

29	1	المطلب الرابع / الحملة الانتخابية المطلب الخامس / التصويت المبحث الرابع / تنظيم الانتخابات المطلب الثاني / الانتخاب الفردي والانتخاب بالقائمة الامريكية (اسيان	Human Rights	A theoretical lecture using power point	Short, semester, half-year and final exams
30	1	المطلب الثالث / نظام الأغلبية ونظام التمثيل النسبي المطلب الرابع / نظام تمثيل المصالح المطلب الخامس / نظام التصويت الاختيار والتصويت الاجباري المطلب السادس / نظام التصويت السري والتصويت العلني	Human Rights	A theoretical lecture using power point	Short, semester, half-year and final exams

11. Course evaluation

- Daily exam scores
- Semester Exams
- Weekly reports of practical experiences
- Daily attendance and participation in scientific questions / activity

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	○ Lectures summarizing the important topics.
Main references	○ أ.د. حافظ علوان الدليمي كتاب (حقوق الانسان) ،جامعة بغداد،كلية العلوم السياسية ،. 2009 ○ أ.د. رياض عزيز هادي كتاب حقوق الانسان (تطورها ومضامينها حمايتها)،.

Arabic Language -:

13. Course Name	
Arabic Language	
14. Course Code	
109AL	
15. Semester / Year	
First year	
16. Description Preparation Date	
2025	
17. Available Attendance Forms	
Theoretical	
18. Number of Credit Hours (Total) / Number of Units (Total)	
30 theoretical	
19. Course administrator's name (mention all, if more than one name)	
Name: م.م. يسر حميد حنون	
20. Course Objectives	
Course objective	Course objectives <ul style="list-style-type: none">○ . introducing the student to the rules of the Arabic language○ Introducing the student to the poems of poets across different eras
21. Teaching and Learning Strategies	
Strategy	<ul style="list-style-type: none">○ Delivering the lecture using the lecture-based (oral presentation) method.”

1. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	1	الموضوعات الادبية المنتبى حياة الشاعر مع قصيدة بالاضافة الى التعليق النقدي	Arabic Language	A theoretical lecture using power point	Short, semester, half-year and final exams
2	1	(بدر شاكر السياب) حياة الشاعر مع قصيدة بالاضافه الى التعليق النقدي	Arabic Language	A theoretical lecture using power point	Short, semester, half-year and final exams
3	1	(نازك الملائكة) حياة الشاعر مع قصيدة بالاضافه الى التعليق النقدي	Arabic Language	A theoretical lecture using power point	Short, semester, half-year and final exams
4	1	(الجواهري) حياة الشاعر مع قصيدة بالاضافة الى التعليق النقدي	Arabic Language	A theoretical lecture using power point	Short, semester, half-year and final exams
5	1	الموضوعات النحوية الجملة الاسمية	Arabic Language	A theoretical lecture using power point	Short, semester, half-year and final exams
6	1	الجملة الفعلية	Arabic Language	A theoretical lecture using power point	Short, semester, half-year and final exams
7	1	المبتدأ	Arabic Language	A theoretical lecture using power point	Short, semester, half-year and final exams
8	1	الخبر	Arabic Language	A theoretical lecture using power point	Short, semester, half-year and final exams
9	1	النواسخ	Arabic Language	A theoretical lecture using power point	Short, semester, half-year and final exams
10	1	العلامات الاصلية والفرعية في الاسم والفعل المضارع	Arabic Language	A theoretical lecture using power point	Short, semester, half-year and final exams
11	1	العلامات الفرعية في الاسم والفعل المضارع	Arabic Language	A theoretical lecture using power point	Short, semester, half-year and final exams

12	1	علامات النصب الفرعية	Arabic Language	A theoretical lecture using power point	Short, semester, half-year and final exams
13	1	علامات الجر الفرعية	Arabic Language	A theoretical lecture using power point	Short, semester, half-year and final exams
14	1	علامات الجزم الفرعية	Arabic Language	A theoretical lecture using power point	Short, semester, half-year and final exams
15	1	الموضوعات الصرفية	Arabic Language	A theoretical lecture using power point	Short, semester, half-year and final exams
16	1	المشتقات	Arabic Language	A theoretical lecture using power point	Short, semester, half-year and final exams
17	1	جمع التكسير	Arabic Language	A theoretical lecture using power point	Short, semester, half-year and final exams
18	1	اسم الفاعل	Arabic Language	A theoretical lecture using power point	Short, semester, half-year and final exams
19	1	صيغ المبالغة	Arabic Language	A theoretical lecture using power point	Short, semester, half-year and final exams
20	1	اسم المفعول	Arabic Language	A theoretical lecture using power point	Short, semester, half-year and final exams
21	1	الفعل المجرد والمزيد	Arabic Language	A theoretical lecture using power point	Short, semester, half-year and final exams
22	1	المذكر والمؤنث وعلامات التأنيث	Arabic Language	A theoretical lecture using power point	Short, semester, half-year and final exams
23	1	الاسم الناقص	Arabic Language	A theoretical lecture using power point	Short, semester, half-year and final exams

24	1	جمع الاسم المنقوص	Arabic Language	A theoretical lecture using power point	Short, semester, half-year and final exams
25	1	الاسم الممدود	Arabic Language	A theoretical lecture using power point	Short, semester, half-year and final exams
26	1	جمع الاسم الممدود	Arabic Language	A theoretical lecture using power point	Short, semester, half-year and final exams
27	1	. لموضوعات الاملائية الحذف والزيادة الحروف التي تحذف الحروف التي تزداد	Arabic Language	A theoretical lecture using power point	Short, semester, half-year and final exams
28	1	الالف المقصورة والالف الممدودة التاء المربوطة والتاء المفتوحة الضاد والظاد	Arabic Language	A theoretical lecture using power point	Short, semester, half-year and final exams
29	1	الهمزة واحكامها	Arabic Language	A theoretical lecture using power point	Short, semester, half-year and final exams
30	1	علامات الترقيم	Arabic Language	A theoretical lecture using power point	Short, semester, half-year and final exams



The Second Stage

General anatomy

Course Description

1. Course Name	
General anatomy	
2. Course Code	
201AN	
3. Semester / Year	
Second year	
4. Description Preparation Date	
2025	
5. Available Attendance Forms	
Theoretical and practical	
6. Number of Credit Hours (Total) / Number of Units (Total)	
30 theoretical + 60 practical	
7. Course administrator's name (mention all, if more than one name)	
Name: م.د. سعدي عبد العزيز كزار	
8. Course Objectives	
Course objective	<ul style="list-style-type: none">○ Scientific preparation of the student with regard to human anatomy, especially with regard to the anatomy of the head and neck and its relationship to his exact specialization as a dentist.
9. Teaching and Learning Strategies	
Strategy	<ul style="list-style-type: none">○ Giving scientific and theoretical lectures through displays, PowerPoint, and slides, and practical experiments in the educational laboratories of the college

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2	<p style="text-align: center;">Scalp</p> Layers of the scalp Muscles of the scalp Sensory Nerve Supply of the Scalp Arterial Supply of the Scalp Venous Drainage of the Scalp Lymph Drainage of the Scalp <p style="text-align: center;">Clinical Notes</p>	General anatomy	A theoretical lecture using power point	Short, semester, half-year and final exams
2	2	<p style="text-align: center;">The orbital region</p> 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 <p style="text-align: center;">Clinical Notes</p>	General anatomy	A theoretical lecture using power point	Short, semester, half-year and final exams
3	1	<p style="text-align: center;">The Nasal region</p> The Nose External Nose Nerve Supply of the External Nose Blood Supply and Venous Drainage of the External Nose Nasal Cavity Mucous Membrane of the Nasal Cavity Nerve Supply of the Nasal Cavity Blood Supply to the Nasal Cavity Venous Drainage of the Nasal Cavity Lymph Drainage of the Nasal Cavity The Paranasal	General anatomy	A theoretical lecture using power point	Short, semester, half-year and final exams

		Sinuses Drainage of Mucus and Functions of Paranasal Sinuses Clinical Notes			
4	1	Mandibular nerve • Introduction • Branches of the Mandibular Nerve • Optic Ganglion Clinical Notes	General anatomy	A theoretical lecture using power point	Short, semester, half-year and final exams
5	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 driange of the Face • venous driange of the Face • Lymphatic driange of the face Facial nerve	General anatomy	A theoretical lecture using power point	Short, semester, half-year and final exams
6	2	Oral cavity The Lips The oral Cavity vestibule and Proper Sensory innervation of the Mouth Hard Palate & Soft palate Muscles of the Soft Palate Palatoglossal Arch & Palatopharyngeal	General anatomy	A theoretical lecture using power point	Short, semester, half-year and final exams

		Arch			
7	1	Tongue <ul style="list-style-type: none"> • Mucous Membrane of the Tongue • Muscles of the Tongue Movements of the Tongue	General anatomy	A theoretical lecture using power point	Short, semester, half-year and final exams
8	1	Temporal region <ul style="list-style-type: none"> • The temporal fossa anatomy • The infratemporal fossa • Communications Muscles of mastication	General anatomy	A theoretical lecture using power point	Short, semester, half-year and final exams
9	2	Parotid gland <ul style="list-style-type: none"> • 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	General anatomy	A theoretical lecture using power point	Short, semester, half-year and final exams
10	1	<ul style="list-style-type: none"> • The Pterygopalatine fossa • Boundaries, Communications and openings • Maxillary nerve • Branches from the pterygopalatine ganglion • THE PTERYGOPALATINE GANGLION THE VEINS OF THE 	General anatomy	A theoretical lecture using power point	Short, semester, half-year and final exams

		PTERYGOPALATINE FOSSA			
11	2	Temporomandibular joint <ul style="list-style-type: none"> • Introduction • The Articular Disk • Retrodiscal Tissue • Capsule • Synovial Membrane • Ligaments • Nerve Supply • Vascular Supply • Movements Important Relations of the Temporomandibular Joint □ Clinical Notes	General anatomy	A theoretical lecture using power point	Short, semester, half-year and final exams
12	2	The neck <ul style="list-style-type: none"> • Overview • Skin of the Neck • Fasciae of the Neck • Superficial Cervical Fascia • Deep Cervical Fascia • Cervical Ligaments • Muscles of the Neck • Cervical Plexus • Bones of Neck • Blood Supply Key Neck Muscles	General anatomy	A theoretical lecture using power point	Short, semester, half-year and final exams

13	2	<p>Triangles of the neck</p> <ul style="list-style-type: none"> • ANTERIOR TRIANGLE • SUBMENTAL TRIANGLE • SUBMANDIBULAR TRIANGLE • CAROTID TRIANGLE • MUSCULAR TRIANGLE • Posterior Triangle • Thyroid Gland • blood supply & venous drainage <p>nerve supply</p>	General anatomy	A theoretical lecture using power point	Short, semester, half-year and final exams
14	1	<p>Submandibular region</p> <p>MUSCLES OF THE SUBMANDIBULAR REGION</p> <p>The submandibular gland</p> <p>Sublingual Gland</p>	General anatomy	A theoretical lecture using power point	Short, semester, half-year and final exams
15	2	<p>Root of the neck</p> <ul style="list-style-type: none"> • 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 <p>Veins of the Head and Neck</p>	General anatomy	A theoretical lecture using power point	Short, semester, half-year and final exams

16	2	<p>Arteries of the neck</p> <ul style="list-style-type: none"> • Common Carotid Artery • Carotid Sinus • Carotid Body • External Carotid Artery • Internal Carotid Artery • Subclavian Arteries (3 parts) <p>Circle of Willis</p>	General anatomy	A theoretical lecture using power point	Short, semester, half-year and final exams
17	1	<p>Brain</p> <ul style="list-style-type: none"> • Nervous System • Gross Anatomy of the Brain • Parts of the Brain • Ventricular System of the Brain • The Venous Blood Sinuses (Dural Sinuses) • Blood Supply of the Brain <ul style="list-style-type: none"> • Cranial Meninges • Dural Nerve Supply □ Dural Arterial Supply <p>Dural Venous Drainage</p> <p>Clinical Focus</p>	General anatomy	A theoretical lecture using power point	Short, semester, half-year and final exams
18	1	<p>Cranial nerves</p> <ul style="list-style-type: none"> • Introduction • Functional Components 	General anatomy	A theoretical lecture using power point	Short, semester, half-year and final exams

		Summary of cranial nerves			
19	1	Pharynx <ul style="list-style-type: none"> • Muscles of the Pharynx • Pharynx divisions • Palatine Tonsils Waldeyer's Ring of Lymphoid Tissue	General anatomy	A theoretical lecture using power point	Short, semester, half-year and final exams
20	1	Larynx <ul style="list-style-type: none"> • Cartilages of the Larynx • Membranes and Ligaments of the Larynx • Inlet of the Larynx • Laryngeal Folds • Muscles of the Larynx Nerve & blood Supply of the Larynx	General anatomy	A theoretical lecture using power point	Short, semester, half-year and final exams

11. Course evaluation

- Daily exam scores
- Semester Exams
- Weekly reports of practical experiences
- Daily attendance and participation in scientific questions / activity

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)

- Lectures summarizing the important topics.

Main references

- nell's Clinical Anatomy by Regions, 10th edition. Wolters Kluwer 2019.
- Netter's Head and Neck Anatomy for

	<p>Dentistry, 3rd edition. Elsevier 2017.</p> <ul style="list-style-type: none">○ Gray's Atlas of Anatomy, 3rd edition. Elsevier. 2021
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Biochemistry

Course Description

1. Course Name	
Biochemistry	
2. Course Code	
212BC	
3. Semester / Year	
Second year	
4. Description Preparation Date	
2025	
5. Available Attendance Forms	
Theoretical and practical	
6. Number of Credit Hours (Total) / Number of Units (Total)	
60 theoretical + 60 practical	
7. Course administrator's name	
Name: م.د. عبد الجبار عباس علي م.م. احمد صاحب فيصل	
8. Course Objectives	
Course objective	Course objectives <ul style="list-style-type: none">○ An introduction to biochemistry, an understanding of its functions, the variables that occur in it, and the lack of waiting for its levels, its life and pathological implications, and ways to measure its levels. Cognitive goals <ul style="list-style-type: none">○ Teaching the student the relationship of general and inorganic chemistry to humans○ Understand the variables that occur when the concentrations of substances change on the health of the body○ The relationship of acidity and alkalinity on the blood and its effects on the functions of the organs○ Radiochemistry and the effects of radiation on human health The skills objectives of the course <ul style="list-style-type: none">○ According to the method of teaching used such as discussion, questioning○ Use laboratories and practical experiments to increase student understanding and see it in action
9. Teaching and Learning Strategies	

Strategy	<ul style="list-style-type: none"> ○ The method of teaching changes according to the student's perception and interaction with the lectures. It may be the method of discussion, the method of interrogation, or the method of conclusion, and all methods may be at the same time, in addition to the use of laboratories and practical experiments to increase the student's understanding and awareness.
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10. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2	Enzymes: Definition ,Terminology , and Classification	Biochemistry	A theoretical lecture using power point	Short, semester, half-year and final exams
2	2	Mechanism of enzyme action	Biochemistry	A theoretical lecture using power point	Short, semester, half-year and final exams
3	2	Clinical significance of enzyme assays	Biochemistry	A theoretical lecture using power point	Short, semester, half-year and final exams
4	2	Vitamins, definition, classification	Biochemistry	A theoretical lecture using power point	Short, semester, half-year and final exams
5	2	Digestion and absorption of carbohydrates, lipids ,and proteins	Biochemistry	A theoretical lecture using power point	Short, semester, half-year and final exams
6	2	Chemistry of carbohydrates	Biochemistry	A theoretical lecture using power point	Short, semester, half-year and final exams
7	2	Metabolism of Carbohydrates: part 1	Biochemistry	A theoretical lecture using power point	Short, semester, half-year and final exams
8	2	Metabolism of Carbohydrates: part 2	Biochemistry	A theoretical lecture using power point	Short, semester, half-year and final exams
9	2	Carbohydrates metabolism regulation =	Biochemistry	A theoretical lecture using power point	Short, semester, half-year and final exams

10	2	Chemistry of Proteins and amino acids	Biochemistry	A theoretical lecture using power point	Short, semester, half-year and final exams
11	2	Metabolism of Proteins and amino acids	Biochemistry	A theoretical lecture using power point	Short, semester, half-year and final exams
12	2	Metabolism of Protein and amino acid regulation	Biochemistry	A theoretical lecture using power point	Short, semester, half-year and final exams
13	2	Metabolism of Protein and amino acid inherited disorder =	Biochemistry	A theoretical lecture using power point	Short, semester, half-year and final exams
14	2	Exam	Biochemistry	A theoretical lecture using power point	Short, semester, half-year and final exams
15	2	Lipid :definition, classification =	Biochemistry	A theoretical lecture using power point	Short, semester, half-year and final exams
16	2	Metabolism of Lipid: oxidation of Fatty Acids	Biochemistry	A theoretical lecture using power point	Short, semester, half-year and final exams
17	2	Biosynthesis of Fatty Acids	Biochemistry	A theoretical lecture using power point	Short, semester, half-year and final exams
18	2	Integration of metabolism of carbohydrates, lipid ,and Proteins	Biochemistry	A theoretical lecture using power point	Short, semester, half-year and final exams
19	2	Metabolism of Purines and pyrimidines	Biochemistry	A theoretical lecture using power point	Short, semester, half-year and final exams
20	2	Metabolism of Purines and pyrimidines disorder	Biochemistry	A theoretical lecture using power point	Short, semester, half-year and final exams
21	2	Nucleic Acids Definition and Protein synthesis	Biochemistry	A theoretical lecture using power point	Short, semester, half-year and final exams

22	2	Hormone definition, classification	Biochemistry	A theoretical lecture using power point	Short, semester, half-year and final exams
23	2	Hormone disorder	Biochemistry	A theoretical lecture using power point	Short, semester, half-year and final exams
24	2	Acid-base balance	Biochemistry	A theoretical lecture using power point	Short, semester, half-year and final exams
25	2	Trace elements disorder	Biochemistry	A theoretical lecture using power point	Short, semester, half-year and final exams
26	2	Salivary secretion(saliva), Pancreatic juice	Biochemistry	A theoretical lecture using power point	Short, semester, half-year and final exams
27	2	Electrolytes	Biochemistry	A theoretical lecture using power point	Short, semester, half-year and final exams
28	2	Liver Function Test	Biochemistry	A theoretical lecture using power point	Short, semester, half-year and final exams
29	2	Kidney Function Test	Biochemistry	A theoretical lecture using power point	Short, semester, half-year and final exams
30	2	EXAM	Biochemistry	A theoretical lecture using power point	Short, semester, half-year and final exams

11. Course evaluation

- Daily exam scores
- Semester Exams
- Weekly reports of practical experiences
- Daily attendance and participation in scientific questions / activity

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	<ul style="list-style-type: none">○ Lectures summarizing the important topics.
Main references	<ul style="list-style-type: none">○ Tietz Fundamentals of Burtis and Ashwod. Clinical Chemistry○ Richared Harvey And Denise Ferrier. Lippincott's Illustrated. Biochemistry ,Reviews

General Physiology

Course Description

1. Course Name	
General Physiology	
2. Course Code	
214PH	
3. Semester / Year	
Second year	
4. Description Preparation Date	
2025	
5. Available Attendance Forms	
Theoretical and practical	
6. Number of Credit Hours (Total) / Number of Units (Total)	
60 theoretical + 60 practical	
7. Course administrator's name (mention all, if more than one name)	
Name: م.د. شيماء ناهي نعيم	
8. Course Objectives	
Course objective	Course objectives <ul style="list-style-type: none">○ Introduction to physiology and teaching the student how to perform the functions of the various organs of the body. Cognitive and skill goals <ul style="list-style-type: none">○ Teaching the student the functions of the body's organs○ The student's knowledge of the functions of the body's organs
9. Teaching and Learning Strategies	
Strategy	<ul style="list-style-type: none">○ Giving lectures through display screens and PowerPoint

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2	Introduction (Function organization of the human body, Cell physiology, Cell membrane , Cell components , Cell Junction)	General Physiology	A theoretical lecture using power point	Short, semester, half-year and final exams
2	2	Body fluid (Type of body fluids, Intracellular and extracellular, Daily intake of water, Daily loss of body water, Constituents of extracellular and intracellular fluids, Major factors contribute to the movement of fluid, Specialized Fluids of the Body) Edema (Types of Edema, Causes of edema, Measurement of body fluid volume, Dehydration, Types of dehydration, Classification, Causes, Signs and Symptoms of Dehydrations)	General Physiology	A theoretical lecture using power point	Short, semester, half-year and final exams
3	2	Homeostasis and Transport across cell membrane (Diffusion (passive), Carrier-mediated transport (passive or active), Vesicular transport	General Physiology	A theoretical lecture using power point	Short, semester, half-year and final exams
4	2	ORAL CAVITY and Salivary Glands (Functions of Mouth, Salivary Glands (Structure,	General Physiology	A theoretical lecture using power point	Short, semester, half-year and final exams

		Development, Major glands, Minor glands, Clinical correlations, Regulation of Salivary Secretion, Factors Influencing Salivary Flow and Composition) (Mastication, Deglutition, Bolus Formation for Swallowing, Digestion), (speech: Definition, Mechanism, Nervous Control, Applied Physiology)			
5	2	Salivary functions and Regulation of Salivary Secretion (Composition of Saliva, Saliva Components, Properties of Saliva, Functions of Saliva, Effect of Drugs and Chemicals on Salivary Secretion, Maintenance of Tooth Integrity, The Diagnostic Applications of Saliva and forensic uses of saliva, Disadvantages/Limitations of Saliva)	General Physiology	A theoretical lecture using power point	Short, semester, half-year and final exams
6	2	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)	General Physiology	A theoretical lecture using power point	Short, semester, half-year 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,	General Physiology	A theoretical lecture using power point	Short, semester, half-year and final exams

		Leukemia's, Leukopenia			
8	2	Hemoglobin (Formation of Hemoglobin , Iron Metabolism , Hb Compounds , Destruction of Hb , The common causes of jaundice)	General Physiology	A theoretical lecture using power point	Short, semester, half-year and final exams
9	2	Blood groups (Agglutination, Agglutinins, The Rh Group, Formation of Anti- Rh, agglutinins, Erythroblastosis Fetalis , Effect of the Mother's Antibodies on the Fetus, Transfusion Reactions resulting from mismatched Blood Types , Nature of Antibodies)	General Physiology	A theoretical lecture using power point	Short, semester, half-year 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 the Normal Vascular System , Prevention of Blood Coagulation outside the Body , Blood Disease)	General Physiology	A theoretical lecture using power point	Short, semester, half-year and final exams
11	2	Cardiovascular system: Blood vessels (Heart: Layers, Valves, Actions of heart, Blood Vessels, Division of circulation, Properties	General Physiology	A theoretical lecture using power point	Short, semester, half-year and final exams

		of Cardiac Muscle, Action Potential and Ionic Basis, Conductive system of Human Heart)			
12	2	Cardiovascular system: Blood pressure (Cardiac Cycle, Heart Sounds, Cardiac Output, Heart Rate and Regulation, Arterial Blood Pressure and Regulation of ABP Venous Pressure and Capillary Pressure, Arterial Pulse and Venous Pulse, Regional Circulation)	General Physiology	A theoretical lecture using power point	Short, semester, half-year and final exams
13	2	Cardiovascular system (Electrocardiogram, Hemorrhage, Circulatory Shock and Heart Failure, Cardiovascular Adjustments during Exercise)	General Physiology	A theoretical lecture using power point	Short, semester, half-year and final exams
14	2	Respiratory system (Types of Respiration, Stages of Respiration, Respiratory tract, Non respiratory functions of respiratory tract, Mechanics of Pulmonary Ventilation, Types of Respiratory pressures, Factors causing and preventing collapsing tendency of lungs)	General Physiology	A theoretical lecture using power point	Short, semester, half-year and final exams
15	2	Respiratory system: Lung volumes and capacities (Compliance, Variation in	General Physiology	A theoretical lecture using power point	Short, semester, half-year and final exams

		Compliance, The resistance and the work of breathing, Dead space, Lung volume and Lung capacity, Ventilation, Respiratory Protective Reflexes , Pulmonary function tests, Regulation of Respiration, The relationship between oral health and respiratory disease)			
16	2	Half-year Break	General Physiology	A theoretical lecture using power point	Short, semester, half-year and final exams
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	General Physiology	A theoretical lecture using power point	Short, semester, half-year and final exams
18	2	Physiological Variations of body temperature, Heat Balance, Heat gain or heat production in the body, Heat loss from the body, Insulator System of the Body, Blood flow to the skin from the body core provides heat transfer, Regulation of body temperature, Mechanisms to decrease or increase	General Physiology	A theoretical lecture using power point	Short, semester, half-year and final exams

		body temperature, Sympathetic “Chemical” Excitation of heat production)			
19	2	Urinary system (Parts of Renal system, The Kidney, Functions of kidneys, Components of kidney, Parenchyma of kidney, Nephron and Juxtaglomerular Apparatus, Renal corpuscle, Structure of renal corpuscle, Tubular portion of nephron, Collecting duct)	General Physiology	A theoretical lecture using power point	Short, semester, half-year and final exams
20	2	Urinary system: Urine formation (Mechanism of urine formation, Glomerular Filtration, Pressure determining filtration, Tubular Reabsorption, Tubular secretion	General Physiology	A theoretical lecture using power point	Short, semester, half-year and final exams
21	2	Endocrine System (Introduction, Endocrine glands, Hormones, Nature of Hormones, Classification of hormones, Hormone Secretors, Hormonal action Hormone receptors, Synthesis and storage of hormones, Mechanism of hormonal function, Measurement of Hormone Concentrations in the Blood)	General Physiology	A theoretical lecture using power point	Short, semester, half-year 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)	General Physiology	A theoretical lecture using power point	Short, semester, half-year and final exams
23	2	Digestive system (The Functions of the digestive, Structural layers of digestive, Stomach, Secretions of the Stomach , Regulation of Stomach Secretion , Mixing of Stomach Contents, Stomach Emptying	General Physiology	A theoretical lecture using power point	Short, semester, half-year and final exams
24	2	Digestive system (small intestine , Secretions of the Small Intestine, Movement in the Small Intestine, Liver, Functions of the Liver, Pancreatic Secretions, Regulation of Pancreatic Secretion, Large Intestine, Movement in the Large Intestine Digestion, Absorption, and Transport)	General Physiology	A theoretical lecture using power point	Short, semester, half-year and final exams
25	2	Muscular system: Muscle structure (Types, Structure, Microscopic Structure, Muscle Physiology,	General Physiology	A theoretical lecture using power point	Short, semester, half-year and final exams

		Properties, Contraction and contractile elements, Tone, Electrical and Molecular Changes during Muscular Contraction)			
26	2	Muscular system: Tone , contraction (Molecular Changes During Muscular Contraction, Neuromuscular Junction- Neuromuscular Transmission and Blockers, Nutrition and Metabolism (Energy Requirements))	General Physiology	A theoretical lecture using power point	Short, semester, half-year and final exams
27	2	Nervous System: Nerve impulse, synapses (Nervous System Division, Cranial nerves , Neuron and Neuroglia, Receptors, Nerve impulse, Synapse and Neurotransmitters)	General Physiology	A theoretical lecture using power point	Short, semester, half-year and final exams
28	2	Nervous System (Reflex Activity, Somatosensory System and Somatomotor System, Physiology of Pain)	General Physiology	A theoretical lecture using power point	Short, semester, half-year and final exams
29	2	Reproductive system: Aging & reproductive system (Male Reproductive System Female Reproductive System, Meiosis, Aging and	General Physiology	A theoretical lecture using power point	Short, semester, half-year and final exams

		Reproductive system			
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)	General Physiology	A theoretical lecture using power point	Short, semester, half-year and final exams

11. Course evaluation

- Daily exam scores
- Semester Exams
- Weekly reports of practical experiences
- Daily attendance and participation in scientific questions / activity

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	<ul style="list-style-type: none"> ○ Lectures summarizing the important topics.
Main references	<ul style="list-style-type: none"> ○ Guyton and Hall Medical Physiology 12th edition. Hall & C . John E ○ Essentials of Physiology for Dental students. K Sembulingam Prema & Guyton.

Oral histology and Embryology

Course Description

1. Course Name	
Oral histology and Embryology	
2. Course Code	
211EL	
3. Semester / Year	
Second year	
4. Description Preparation Date	
2025	
5. Available Attendance Forms	
Theoretical and practical	
6. Number of Credit Hours (Total) / Number of Units (Total)	
60 theoretical + 90 practical	
7. Course administrator's name	
Name:	
م.م. ابتهاج عطية حبيب	
8. Course Objectives	
Course objective	Course objectives <ul style="list-style-type: none">○ Rehabilitation of dentists who are able to know the types of oral and dental tissues and know the method of cutting oral and dental tissues in the laboratory and how to use the optical microscope and tissue cutting devices and knowledge of the types of dyes used to dye different oral tissue.○ Introducing the student to the stages of formation and development of the fetus and knowing the congenital anomalies accompanying this development.○ Enable the student to use the optical microscope and cut the tissues of the mouth and teeth Cognitive goals <ul style="list-style-type: none">○ Enabling the student to know the types of normal oral tissues by giving sufficient information about the types of microscopes used to study the different oral tissues and knowing the types of tissue layers○ The stages of fetal development.○ Abnormalities that occur during the development of the fetus.○ Modern methods of diagnosing abnormalities. The skills objectives of the course <ul style="list-style-type: none">○ Informing the student of his rights○ Introduce the student to his duties towards society

	<ul style="list-style-type: none"> ○ The ability to dissect laboratory animals (extracting embryos from them) ○ Make slides with special slides for the fetus.
9. Teaching and Learning Strategies	
Strategy	<ul style="list-style-type: none"> ○ Knowing the different types of normal oral tissues by reading the slides ○ Use of optical microscopes ○ How to cut the various tissues of the mouth and teeth

10. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2	Embryogenesis: first week, ovulation, fertilization and implantation	Oral histology and Embryology	A theoretical lecture using power point	Short, semester, half-year and final exams
2	2	2nd week, Bilaminar germ layer	Oral histology and Embryology	A theoretical lecture using power point	Short, semester, half-year and final exams
3	2	3rd week trilaminar germ layer: gastrulation and neurulation	Oral histology and Embryology	A theoretical lecture using power point	Short, semester, half-year and final exams
4	2	Development of head and neck(pharyngeal arch,pouch & cleft	Oral histology and Embryology	A theoretical lecture using power point	Short, semester, half-year and final exams
5	2	Development of face and anomalies	Oral histology and Embryology	A theoretical lecture using power point	Short, semester, half-year and final exams
6	2	Development of tongue and anomalies	Oral histology and Embryology	A theoretical lecture using power point	Short, semester, half-year and final exams
7	2	Development of palate and anomalies	Oral histology and Embryology	A theoretical lecture using power point	Short, semester, half-year and final exams
8	2	Slide preparation	Oral histology and Embryology	A theoretical lecture using power point	Short, semester, half-year and final exams

9	2	Tooth development and growth	Oral histology and Embryology	A theoretical lecture using power point	Short, semester, half-year and final exams
10	2	Dentinogenesis and dentin structure	Oral histology and Embryology	A theoretical lecture using power point	Short, semester, half-year and final exams
11	2	Amelogenesis, Enamel structures	Oral histology and Embryology	A theoretical lecture using power point	Short, semester, half-year and final exams
12	2	Clinical consideration for dentin and enamel	Oral histology and Embryology	A theoretical lecture using power point	Short, semester, half-year and final exams
13	2	Dental Pulp	Oral histology and Embryology	A theoretical lecture using power point	Short, semester, half-year and final exams
14	2	Cementum and clinical consideration	Oral histology and Embryology	A theoretical lecture using power point	Short, semester, half-year and final exams
15	2	Root formation& Cementogenesis	Oral histology and Embryology	A theoretical lecture using power point	Short, semester, half-year and final exams
16	2	Periodontal ligaments	Oral histology and Embryology	A theoretical lecture using power point	Short, semester, half-year and final exams
17	2	Principles fiber of pdl and gingival fibers	Oral histology and Embryology	A theoretical lecture using power point	Short, semester, half-year and final exams
18	2	Alveolar bone	Oral histology and Embryology	A theoretical lecture using power point	Short, semester, half-year and final exams
19	2	Bone formation and resorption	Oral histology and Embryology	A theoretical lecture using power point	Short, semester, half-year and final exams
20	2	Proteins involve in mineralization of bone and dentin	Oral histology and Embryology	A theoretical lecture using power point	Short, semester, half-year and final exams

21	2	Oral mucosa and their types	Oral histology and Embryology	A theoretical lecture using power point	Short, semester, half-year and final exams
22	2	Gingiva and dentogingival junction	Oral histology and Embryology	A theoretical lecture using power point	Short, semester, half-year and final exams
23	2	Eruption of teeth	Oral histology and Embryology	A theoretical lecture using power point	Short, semester, half-year and final exams
24	2	Shedding of teeth	Oral histology and Embryology	A theoretical lecture using power point	Short, semester, half-year and final exams
25	2	Salivary gland	Oral histology and Embryology	A theoretical lecture using power point	Short, semester, half-year and final exams
26	2	Salivary proteins	Oral histology and Embryology	A theoretical lecture using power point	Short, semester, half-year and final exams
27	2	TMJ	Oral histology and Embryology	A theoretical lecture using power point	Short, semester, half-year and final exams
28	2	Maxillary sinus	Oral histology and Embryology	A theoretical lecture using power point	Short, semester, half-year and final exams
29	2	Histochemistry	Oral histology and Embryology	A theoretical lecture using power point	Short, semester, half-year and final exams
30	2	Age changes of soft and hard tissues	Oral histology and Embryology	A theoretical lecture using power point	Short, semester, half-year and final exams

11. Course evaluation

- Daily exam scores
- Semester Exams
- Weekly reports of practical experiences
- Daily attendance and participation in scientific questions / activity

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	<ul style="list-style-type: none">○ Lectures summarizing the important topics.
Main references	<ul style="list-style-type: none">○ Ten cate's oral histology development, structures and function. Antonio Nanci. 9th edition. 2017, Elsevier.○ Orban's oral histology and embryology. Kumar. 14th edition. 2015, Elsevier.

Dental Material

Course Description

1. Course Name	
Dental Material	
2. Course Code	
209DM	
3. Semester / Year	
Second year	
4. Description Preparation Date	
2025	
5. Available Attendance Forms	
Theoretical and practical	
6. Number of Credit Hours (Total) / Number of Units (Total)	
30 theoretical + 60 practical	
7. Course administrator's name (mention all, if more than one name)	
Name: م.د. محمد يحيى محمد	
8. Course Objectives	
Course objective	Course objectives <ul style="list-style-type: none">○ Learn the physical, chemical and mechanical properties of materials used in dentistry and learn the skills necessary for the correct handling and adaptation of these materials. Cognitive goals <ul style="list-style-type: none">○ Introducing the student to the different types of materials involved in dentistry○ Giving the necessary information to deal with these materials.○ Giving instructions and following up the process of using materials from mixing and following up the interactions that the materials go through to reach the end of the interaction. The skills objectives of the course <ul style="list-style-type: none">○ Describe the tools used to prepare all materials○ Teaching the student how to use it and follow it during work
9. Teaching and Learning Strategies	
Strategy	<ul style="list-style-type: none">○ Giving scientific and theoretical lectures through display screens and PowerPoint.○ Live explanation and dealing with all types of materials mentioned within the scheduled curriculum in front of the students after dividing them into groups

according to the number of days of the week.

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	1	Introduction and physical properties of dental material <ul style="list-style-type: none"> • Introduction to dental materials Physical, chemical and biological properties of dental materials	Dental Material	A theoretical lecture using power point	Short, semester, half-year and final exams
2	1	Mechanical properties	Dental Material	A theoretical lecture using power point	Short, semester, half-year and final exams
3	1	Gypsum materials <ul style="list-style-type: none"> • Definition, requirement, types, • gypsum bonded investment • phosphate bonded investment ethyl silicate bonded 	Dental Material	A theoretical lecture using power point	Short, semester, half-year and final exams
4	1	Gypsum materials	Dental Material	A theoretical lecture using power point	Short, semester, half-year and final exams
5	1	Impression materials <ul style="list-style-type: none"> • Definition • Ideal properties of impression materials • Classification of impression materials <ul style="list-style-type: none"> ✓ Non elastic impression materials 	Dental Material	A theoretical lecture using power point	Short, semester, half-year and final exams

		<ul style="list-style-type: none"> ➤ Impression on plaster ➤ Impression on compound ➤ Zinc oxide - eugenol <p>Elastomeric impression material</p>			
6	1	Impression materials	Dental Material	A theoretical lecture using power point	Short, semester, half-year and final exams
7	1	Impression materials	Dental Material	A theoretical lecture using power point	Short, semester, half-year and final exams
8	1	Impression materials	Dental Material	A theoretical lecture using power point	Short, semester, half-year and final exams
9	1	Impression materials	Dental Material	A theoretical lecture using power point	Short, semester, half-year and final exams
10	1	<p>Waxes</p> <ul style="list-style-type: none"> • Definition, • Requirements, • classification of wax according to origin & melting point, <p>classification of wax according to uses, properties of dental waxes.</p>	Dental Material	A theoretical lecture using power point	Short, semester, half-year and final exams
11	1	Waxes	Dental Material	A theoretical lecture using power point	Short, semester, half-year and final exams

12	1	<p>Polymers</p> <ul style="list-style-type: none"> • Polymers and polymerization • Definition of polymer, co-polymer, cross-link polymer and Degree of polymerization • Factors which control structure and properties of polymer • Types of polymerization • Heat activated acrylic <ul style="list-style-type: none"> ✓ Composition ✓ Properties • Chemically activated resin <ul style="list-style-type: none"> ✓ Composition ✓ Properties • Light activated resin <ul style="list-style-type: none"> ✓ Composition <p>Properties</p>	Dental Material	A theoretical lecture using power point	Short, semester, half-year and final exams
13	1	<p>Polymers</p> <ul style="list-style-type: none"> • Chemically activated resin compared to heat activated resins • Polymers used in dentistry <p>Processing errors</p>	Dental Material	A theoretical lecture using power point	Short, semester, half-year and final exams
14	1	Investment materials factors affecting setting time, setting expansion, strength, storage and	Dental Material	A theoretical lecture using power point	Short, semester, half-year and final exams

		manipulation of gypsum products, and hygroscopic expansion			
15	1	Cement materials <ul style="list-style-type: none"> • Classification of dental cements • Definition Requirements	Dental Material	A theoretical lecture using power point	Short, semester, half-year and final exams
16	1	Temporary filling Definition <ul style="list-style-type: none"> • indication • Types Requirements.	Dental Material	A theoretical lecture using power point	Short, semester, half-year and final exams
17	1	Metal and metal alloy Metallic denture base materials <ul style="list-style-type: none"> ✓ Types of metal and metal alloys ✓ Definition of alloy ✓ Requirement of casting alloy ✓ Application of dental alloy 	Dental Material	A theoretical lecture using power point	Short, semester, half-year and final exams
18	1	Metal and metal alloy <ul style="list-style-type: none"> ✓ classification of metal ✓ classification of dental alloy ✓ gold foil (advantages, disadvantages) ✓ gold alloys <ul style="list-style-type: none"> ➤ Composition Properties	Dental Material	A theoretical lecture using power point	Short, semester, half-year and final exams

19	1	<p>Metal and metal alloy Alternative of gold alloys</p> <ul style="list-style-type: none"> ✓ Metal ceramic alloys <ul style="list-style-type: none"> ➤ Requirement ➤ Types ✓ Removable denture base alloys <ul style="list-style-type: none"> ➤ Requirements ➤ Types ✓ Co-Cr alloy <ul style="list-style-type: none"> ➤ Application ➤ Composition ➤ properties, ➤ Advantages <p>Disadvantages</p>	Dental Material	A theoretical lecture using power point	Short, semester, half-year and final exams
20	1	<p>Metal and metal alloy</p> <ul style="list-style-type: none"> ✓ Titanium and Titanium alloys <ul style="list-style-type: none"> ➤ Applications ➤ Properties ✓ Ni/Cr alloys <ul style="list-style-type: none"> ➤ Composition 	Dental Material	A theoretical lecture using power point	Short, semester, half-year and final exams

		<ul style="list-style-type: none"> ➤ Indications ✓ Wrought stainless steel allo 			
21	1	Filling materials	Dental Material	A theoretical lecture using power point	Short, semester, half-year and final exams
22	1	<p>Direct filling material</p> <ul style="list-style-type: none"> ✓ Definition <p>Factors causing loss of tooth substance</p> <ul style="list-style-type: none"> ✓ Requirement of an ideal filling material. ✓ Classification of filling material ➤ Anterior filling materials ✚ Disadvantages ✚ Composite filling materials composition and structure ✚ Types of composite ➤ Posterior filling materials ✚ Dental amalgam 	Dental Material	A theoretical lecture using power point	Short, semester, half-year and final exams

		<ul style="list-style-type: none"> ▪ Classification of amalgam alloys ▪ Properties of set amalgam ▪ Shaping and finishing <p>Mercury</p>			
23	1	Filling materials	Dental Material	A theoretical lecture using power point	Short, semester, half-year and final exams
24	1	Filling materials	Dental Material	A theoretical lecture using power point	Short, semester, half-year and final exams
25	1	Filling materials	Dental Material	A theoretical lecture using power point	Short, semester, half-year and final exams
26	1	Preventive materials	Dental Material	A theoretical lecture using power point	Short, semester, half-year and final exams
27	1	<p>Root canal filling materials (obturating materials)</p> <p>Root canal filling materials (obturating materials)</p>	Dental Material	A theoretical lecture using power point	Short, semester, half-year and final exams
28	1	Finishing and polishing material	Dental Material	A theoretical lecture using power point	Short, semester, half-year and final exams
29	1	<p>Relining material</p> <ul style="list-style-type: none"> • Definition • Types • Requirements • Indication • Soft liners 	Dental Material	A theoretical lecture using power point	Short, semester, half-year and final exams

		✓ Types ✓ Requirements ✓ Indication Properties			
30	1	Implant materials	Biochemistry	A theoretical lecture using power point	Short, semester, half-year and final exams

11. Course evaluation

- Daily exam scores
- Semester Exams
- Weekly reports of practical experiences
- Daily attendance and participation in scientific questions / activity

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	<ul style="list-style-type: none"> ○ Lectures summarizing the important topics.
Main references	<ul style="list-style-type: none"> ○ Philips science of dental materials 2012. edition 12 ○ Craig's Restorative dental materials. 2018 edition 14

General Histology

Course Description

1. Course Name	
General Histology	
2. Course Code	
213GH	
3. Semester / Year	
Second year	
4. Description Preparation Date	
2025	
5. Available Attendance Forms	
Theoretical and practical	
6. Number of Credit Hours (Total) / Number of Units (Total)	
60 theoretical + 60 practical	
7. Course administrator's name (mention all, if more than one name)	
Name: م.د. نرمين محمد منير ا.د. محسن عبد علي عبد الصاحب	
8. Course Objectives	
Course objective	Course objectives <ul style="list-style-type: none">○ Teaching students the practical and theoretical applications of the various general body tissues and all parts of the body Cognitive goals <ul style="list-style-type: none">○ Explanation of the structures of the different tissues and organs of the body○ Use and draw simple diagrams on the board○ Using a display screen to display the different sections of the tissues of the body's organs in several sections and directions The skills objectives of the course <ul style="list-style-type: none">○ Preparation of tissue sections for different sections of the body○ The use of optical microscopes to examine and distinguish different tissues and organs of the body.
9. Teaching and Learning Strategies	
Strategy	<ul style="list-style-type: none">○ Giving scientific and theoretical lectures through display screens and PowerPoint.○ Live explanation and dealing with all kinds of materials mentioned within the curriculum in front of the students after dividing them into groups according to the number of days of the week.

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2	Cells, Basic Tissue	General Histology	A theoretical lecture using power point	Short, semester, half-year and final exams
2	2	Epithelial Tissue	General Histology	A theoretical lecture using power point	Short, semester, half-year and final exams
3	2	Connective Tissue	General Histology	A theoretical lecture using power point	Short, semester, half-year and final exams
4	2	Respiratory System: conducting portion	General Histology	A theoretical lecture using power point	Short, semester, half-year and final exams
5	2	Respiratory System: respiratory portion	General Histology	A theoretical lecture using power point	Short, semester, half-year and final exams
6	2	Urinary System: kidney nephrons, collecting tubules and ducts	General Histology	A theoretical lecture using power point	Short, semester, half-year and final exams
7	2	Urinary System: ureter, urinary bladder, and male and female urethra.	General Histology	A theoretical lecture using power point	Short, semester, half-year and final exams
8	2	Integumentary System: Skin: epidermis, dermis	General Histology	A theoretical lecture using power point	Short, semester, half-year and final exams
9	2	Integumentary System: skin glands, hair, and nails.	General Histology	A theoretical lecture using power point	Short, semester, half-year and final exams
10	2	Hemopoiesis: bone marrow	General Histology	A theoretical lecture using power point	Short, semester, half-year and final exams
11	2	Hemopoiesis: blood cells	General Histology	A theoretical lecture using power point	Short, semester, half-year and final exams

12	2	Circulatory System	General Histology	A theoretical lecture using power point	Short, semester, half-year and final exams
13	2	Circulatory System	General Histology	A theoretical lecture using power point	Short, semester, half-year and final exams
14	2	Lymphoid System	General Histology	A theoretical lecture using power point	Short, semester, half-year and final exams
15	2	Lymphoid System	General Histology	A theoretical lecture using power point	Short, semester, half-year and final exams
16	2	Nervous System	General Histology	A theoretical lecture using power point	Short, semester, half-year and final exams
17	2	Nervous System	General Histology	A theoretical lecture using power point	Short, semester, half-year and final exams
18	2	Endocrine System	General Histology	A theoretical lecture using power point	Short, semester, half-year and final exams
19	2	Endocrine System	General Histology	A theoretical lecture using power point	Short, semester, half-year and final exams
20	2	Endocrine System	General Histology	A theoretical lecture using power point	Short, semester, half-year and final exams
21	2	Endocrine System	General Histology	A theoretical lecture using power point	Short, semester, half-year and final exams
22	2	Endocrine System.	General Histology	A theoretical lecture using power point	Short, semester, half-year and final exams
23	2	Endocrine System	General Histology	A theoretical lecture using power point	Short, semester, half-year and final exams

24	2	Endocrine System	General Histology	A theoretical lecture using power point	Short, semester, half-year and final exams
25	2	Male Reproductive System	General Histology	A theoretical lecture using power point	Short, semester, half-year and final exams
26	2	Male Reproductive System.	General Histology	A theoretical lecture using power point	Short, semester, half-year and final exams
27	2	Female Reproductive System	General Histology	A theoretical lecture using power point	Short, semester, half-year and final exams
28	2	Female Reproductive System	General Histology	A theoretical lecture using power point	Short, semester, half-year and final exams
29	2	Special Sense Organs: eye	General Histology	A theoretical lecture using power point	Short, semester, half-year and final exams
30	2	Special Sense Organs: ear	General Histology	A theoretical lecture using power point	Short, semester, half-year and final exams

11. Course evaluation

- Daily exam scores
- Semester Exams
- Weekly reports of practical experiences
- Daily attendance and participation in scientific questions / activity

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)

- Lectures summarizing the important topics.

Main references

- Junqueira's Basic Histology TEXT & ATLAS. Anthony L MESCHER
- Illustrated Dental Histology Embryology and Anatomy. Margaret J, Fehrenbach and Tracy Popowics.

Prosthodontics

Course Description

1. Course Name	
Prosthodontics	
2. Course Code	
210PR	
3. Semester / Year	
Second year	
4. Description Preparation Date	
2025	
5. Available Attendance Forms	
Theoretical and practical	
6. Number of Credit Hours (Total) / Number of Units (Total)	
30 theoretical + 120 practical	
7. Course administrator's name (mention all, if more than one name)	
Name: م.د محمد يحيى محمد	
8. Course Objectives	
Course objective	Course objectives <ul style="list-style-type: none">○ Introducing the dental industry in general as it is one of the most important subjects that the student will continue to study for the next four years○ Defining the terms that will be used in explaining the course so that the student can understand them correctly○ Practical laboratory steps for the manufacture of the complete kit and practical training inside the laboratory Cognitive goals <ul style="list-style-type: none">○ Giving the necessary information to deal with the materials involved in the dental industry process and the manufacture of the complete denture in particular○ Make the student familiar with and able to master all laboratory steps to make the complete kit The skills objectives of the course <ul style="list-style-type: none">○ Describe the tools, devices and materials for the subject of making the kit○ Teach the student how to use it and follow it during work step by step
9. Teaching and Learning Strategies	

Strategy	<ul style="list-style-type: none"> ○ Giving practical and theoretical lectures through display screens and PowerPoint ○ Live explanation and dealing with all kinds of materials mentioned within the curriculum in front of the students after dividing them into groups on the number of days of the week and explaining all the steps with a detailed explanation.
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10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	1	Introduction Complete denture ✓ Objective of complete denture ✓ General consideration in complete denture construction Complete denture component parts	Prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
2	1	Anatomical landmarks ✓ Maxillary arch anatomical landmarks ➤ Supporting structures ➤ Limiting structures Relief areas	Prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
3	1	Anatomical landmarks ✓ Mandibular arch anatomical landmarks ➤ Supporting structures ➤ Limiting structures Relief areas	Prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
4	1	Complete Denture Impression • Impression tray - Definition • Parts of the impression tray	Prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams

		<ul style="list-style-type: none"> • Types of tray • Stock tray – Definition • Types of stock trays <p>Factors effect in selection of stock tray</p>			
5	1	<p>Special tray</p> <ul style="list-style-type: none"> ✓ Advantages of special tray ✓ Materials used for construction of special tray <p>Types of special tray</p>	Prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
6	1	<ul style="list-style-type: none"> • Dental impression - Definition • Complete denture impression - Definition • Objective of impression making • Primary impression - Definition • Materials used for making primary impression • Primary cast - Definition • Production of study cast • Secondary impression - Definition • Master cast- Definition • Materials used for final impression • Technique used for making final impression • Boxing an impression and making the casts 	Prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams

		<ul style="list-style-type: none"> Advantages of boxing <p>Common fault in impression</p>			
7	1	<ul style="list-style-type: none"> Record base - Definition Requirements of record base <p>Types of materials used in construction of record base</p>	Prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
8	1	<ul style="list-style-type: none"> Occlusion rims - Definition Requirements of occlusion rim Materials used in construction of occlusion rim Measurements of maxillary occlusion rim Measurements of mandibular occlusion rim Uses of occlusion rim Occlusal plane <p>Fox – bite</p>	Prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
9	1	<p>Anatomy And Physiology Of Temporomandibular Joint</p>	Prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
10	1	<p>Anatomy And Physiology Of Temporomandibular Joint</p> <ul style="list-style-type: none"> Mandibular axes and mandibular movements Knowledge of mandibular movements <p>Mandibular movements</p>	Prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams

11	1	<p>Maxillo Mandibular relation</p> <p>Types of jaw relation</p> <p>✓ Vertical jaw relation</p> <ul style="list-style-type: none"> ➤ Rest position ➤ Inter – occlusal distance ➤ Importance of vertical dimension ➤ Increased vertical dimension <p>Decreased vertical dimension</p>	Prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
12	1	<p>Methods Of Recording Vertical Relation</p> <ul style="list-style-type: none"> • Method of recording rest vertical dimension • Method of recording occlusal vertical dimension • Pre – extraction records <p>Methods without pre – extraction record</p>	Prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
13	1	<p>Horizontal Jaw Relation</p> <p>Centric jaw relation</p> <p>✓ Importance of centric jaw relation</p> <p>✓ Methods of recording jaw relation</p> <p>✓ Factors that complicates centric jaw relation</p> <p>Methods of recording</p>	Prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
14	1	<p>Dental Articulators (Classification & Digital computerized articulator</p>	Prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams

		programming) ✓ Requirements of articulator Types of articulator			
15	1	Face – Bow ✓ Definition ✓ Parts of face – bow ✓ Types of face – bow Important of the face – bow	Prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
16	1	Mounting ✓ Definition ✓ Preparation of articulator ✓ Preparation of the casts and mounting the upper cast on CL II articulator ✓ Mounting the lower cast Errors occurred during mounting	Prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
17	1	Selection Of Artificial Teeth Selection of anterior teeth ✓ The factors of shade selection ✓ Size selection a. Length b. Width ✓ Form selection ✓ Materials of anterior teeth Difference between acrylic and porcelain teeth	Prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
18	1	Selection Of Posterior Teeth ✓ Shade ✓ Bucco-lingual width	Prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams

		<ul style="list-style-type: none"> ✓ Mesio-distal length ✓ Occluso-gingival height ✓ Occlusal form ✓ Advantages of cast form teeth <p>Advantages of non-cast form teeth</p>			
19	1	<p>Arrangement Of Artificial Teeth</p>	Prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
20	1	<p>Arrangement Of Posterior Teeth</p> <ul style="list-style-type: none"> • Curve of Spee • Compensatory curves • Arrangement of lower posterior teeth • Arrangement of upper posterior teeth <p>Common errors in arrangement of teeth</p>	Prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
21	1	<p>Waxing And Carving Waxing</p> <ul style="list-style-type: none"> ✓ Definition ✓ Requirements of waxing the polish surfaces ✓ The procedure of waxing ✓ Establishing the posterior palatal seal area ✓ Procedure for carving of posterior palatal seal area ✓ Advantages of posterior palatal seal <p>□ Esthetic</p>	Prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams

		consideration in complete denture			
22	1	Complete Denture Occlusion Occlusion ✓ Occlusion of complete denture ✓ Centric occlusion Centric relation	Prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
23	1	Complete Denture Occlusion ✓ Eccentric occlusion ✓ Concepts of complete denture occlusion Try-in appointment	Prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
24	1	Processing Of The Denture (Flasking Flasking of the denture ✓ Flasking techniques	Prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
25	1	Occlusal Correction • Causes of errors in occlusion • Selective grinding • Correction of occlusal errors • Disadvantages of intra – oral correction Advantages of extra – oral correction	Prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
26	1	Finishing And Polishing Of Complete Denture Procedure of finishing Grinding and cutting instruments Polishing of complete denture Principles of	Prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams

		polishing Procedures of polishing			
27	1	Repair Of Complete Denture Types of material used in repair Causes of denture fracture Types of repair Laboratory procedure for repairing fractured denture base	Prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
28	1	Repair Of Complete Denture Replacement of broken or missing tooth Replacement of missing or lost part Requirement of repair	Prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
29	1	Relining And Rebasing	Prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
30	1	Relining And Rebasing Laboratory procedures for relining Rebasing The chair – side reline technique	Prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams

11. Course evaluation

- Daily exam scores
- Semester Exams
- Weekly reports of practical experiences
- Daily attendance and participation in scientific questions / activity

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	<ul style="list-style-type: none">○ Lectures summarizing the important topics.
Main references	<ul style="list-style-type: none">○ Textbook of complete denture 6th edition updated 2009.○ Dental laboratory technology for removable prosthodontics.

Baath Party crimes in Iraq

Course Description

1. Course Name	
Baath Party crimes in Iraq	
2. Course Code	
215 BC	
3. Semester / Year	
Second year	
4. Description Preparation Date	
2025	
5. Available Attendance Forms	
Theoretical	
6. Number of Credit Hours (Total) / Number of Units (Total)	
30 theoretical	
7. Course administrator's name (mention all, if more than one name)	
Name: م.م. صادق مجيد حميد	
8. Course Objectives	
Course objective	<ul style="list-style-type: none">○ Giving an idea for the students of the Baath Party crimes, as they were born post Baath Party decline, in political, economic, social, and all other aspects in Iraq.
9. Teaching and Learning Strategies	
Strategy	<ul style="list-style-type: none">○ The method of teaching changes according to the student's perception and interaction with the lectures. It may be the method of discussion, the method of interrogation, or the method of conclusion, and all methods may be at the same time, in addition to the use of laboratories and practical experiments to increase the student's understanding and awareness.

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1 & 2	2	نبذة وصفية عن الأنظمة السياسية التي حكمت العراق	Baath Party crimes in Iraq	A theoretical lecture using power point	Short, semester, half-year and final exams
3 & 4	2	انتهاكات تمس الحقوق الاجتماعية والسياسية والثقافية وتمس القانون الدولي	Baath Party crimes in Iraq	A theoretical lecture using power point	Short, semester, half-year and final exams
5 & 6	2	اثر سلوكيات النظام البعثي في المجتمع	Baath Party crimes in Iraq	A theoretical lecture using power point	Short, semester, half-year and final exams
7 & 8	2	حصر السلطات الثلاث بيد النظام البعثي	Baath Party crimes in Iraq	A theoretical lecture using power point	Short, semester, half-year and final exams
9 & 10	2	الاستبداد في افساد الاخلاق ومحاربة العطاء	Baath Party crimes in Iraq	A theoretical lecture using power point	Short, semester, half-year and final exams
11 & 12	2	الآليات النفسية والاجتماعية التي استعملها نظام الحكم السابق	Baath Party crimes in Iraq	A theoretical lecture using power point	Short, semester, half-year and final exams
13 & 14	2	امتحان نصف الفصل	Baath Party crimes in Iraq	A theoretical lecture using power point	Short, semester, half-year and final exams
15 & 16	2	الميدان الاجتماعي	Baath Party crimes in Iraq	A theoretical lecture using power point	Short, semester, half-year and final exams
17 & 18	2	الدين والدولة	Baath Party crimes in Iraq	A theoretical lecture using power point	Short, semester, half-year and final exams

19 & 20	2	الثقافة والاعلام وعسكرة المجتمع	Baath Party crimes in Iraq	A theoretical lecture using power point	Short, semester, half-year and final exams
21 & 22	2	اثر القمع والحروب على البيئة والسكان	Baath Party crimes in Iraq	A theoretical lecture using power point	Short, semester, half-year and final exams
23 & 24	2	سياسة الارض المحروقة	Baath Party crimes in Iraq	A theoretical lecture using power point	Short, semester, half-year and final exams
25 & 26	2	تجفيف الاهوار والهجرة القشبية	Baath Party crimes in Iraq	A theoretical lecture using power point	Short, semester, half-year and final exams
27 & 28	2	تدمي البيئة الزراعية والحيوانية والتلوث الاشعاعي	Baath Party crimes in Iraq	A theoretical lecture using power point	Short, semester, half-year and final exams
29 & 30	2	الامتحان النهائي	Baath Party crimes in Iraq	A theoretical lecture using power point	Short, semester, half-year and final exams

11. Course evaluation

- Daily exam scores
- Semester Exams
- Weekly reports of practical experiences
- Daily attendance and participation in scientific questions / activity

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	○ Lectures summarizing the important topics.
Main references	○ Old constitution Iraq (before 2003). ○ Post-Saddam History of Iraq.



The Third Stage

Prosthodontics

Course Description

1. Course Name	
Prosthodontics	
2. Course Code	
310PR	
3. Semester / Year	
Third year	
4. Description Preparation Date	
2025	
5. Available Attendance Forms	
Theoretical and practical	
6. Number of Credit Hours (Total) / Number of Units (Total)	
30 theoretical + 120 practical	
7. Course administrator's name (mention all, if more than one name)	
Name: ا.م.د. ايناس طه ابراهيم	
8. Course Objectives	
Course objective	Course objectives <ul style="list-style-type: none">○ Training the student on how to examine patients and diagnose the patient's pathological condition by modern and currently approved diagnostic methods, then prepare a treatment plan and then start treatment in a correct scientific manner○ Using modern materials and methods in the manufacture of the complete set by giving theoretical lectures with practice in clinics -Cognitive goals <ul style="list-style-type: none">○ Giving the necessary information to deal with the materials involved in the dental industry and the manufacture of partial dentures○ Training the student on how to examine and diagnose disease states○ Giving important information and treatment steps The skills objectives of the course <ul style="list-style-type: none">○ Describe the tools used to treat patients who need partial dentures○ Follow-up of the student during his training in clinics
9. Teaching and Learning Strategies	

Strategy	<ul style="list-style-type: none"> ○ Giving practical and theoretical lectures through display screens and PowerPoint ○ Live explanation and dealing with all kinds of materials mentioned within the curriculum in front of the students after dividing them into groups on the number of days of the week and explaining all the steps with a detailed explanation ○ Summer Internship ○ Group educational workshops ○ Seminars
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10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	1	<p>Introduction Of RPD</p> <ul style="list-style-type: none"> • 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 refinishing 	Prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
2	1	<p>Classification of Partially Edentulous Arches</p> <ul style="list-style-type: none"> • Need for classification. • Requirements of an acceptable method of classification • Removable partial dentures may be classified according to the type of support • Removable partial dentures may be 	Prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams

		<p>classified according to the type of material</p> <ul style="list-style-type: none"> • 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 			
3	1	<p>Surveying</p> <ul style="list-style-type: none"> • 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 • Parts of dental surveyor (Ney type surveyor) 	Prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
4	1	<p>Surveying (continue)</p> <ul style="list-style-type: none"> • 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 	Prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams

5	1	<p>Component Parts of a Removable Partial Denture</p> <ul style="list-style-type: none"> • Main components of RPD • Major connectors • Requirements of major connectors • Guidelines for design and location of major connectors • Characteristics of major connectors 	Prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
6	1	<p>Maxillary Major Connectors</p> <ul style="list-style-type: none"> • Special Structural Requirements for Maxillary Major Connectors • Types of Maxillary Major Connector • Single palatal bar • Single palatal strap • Anterior-posterior palatal bars • Combination anterior and posterior palatal strap– type connector • Palatal plate-type connector • U-shaped palatal connector 	Prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
7	1	<p>Mandibular Major Connector</p> <ul style="list-style-type: none"> • 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 	Prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
8	1	<p>Minor Connectors</p> <ul style="list-style-type: none"> • Definition • Functions • Form & location 	Prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams

		<ul style="list-style-type: none"> • Basic types of minor connectors • Tissue stops • Finishing lines • Reaction of Tissue to Metallic Coverage 			
9	1	Rests and Rest Seats <ul style="list-style-type: none"> • The purposes of the rest in general • Occlusal Rest • Extended Occlusal Rest • Interproximal Occlusal Rest • Internal Occlusal Rests • Occlusal Rest Seat Preparation • Occlusal Rests on Amalgam Restorations • Occlusal Rest on Crowns • Lingual Rests (Cingulum Rest) • Incisal Rests and Rest Seats • Implants as a Rest 	Prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
10	1	Retention And RPD Retainer <ul style="list-style-type: none"> • Direct retainers • Indirect retainers • The extra coronal retainer 1 68 (Clasp type) • Component parts, Function, and position of clasp assembly parts • Factors affecting the magnitude of retention <ul style="list-style-type: none"> • The basic principles of clasp design 	Prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
11	1	Extra Coronal Direct Retainers (Types of clasp assemblies) <ul style="list-style-type: none"> • Clasps designed without movement accommodation. 	Prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams

		<p>Circumferential (Circle or Akers) clasp</p> <ul style="list-style-type: none"> • Ring-type clasp • Embrasure (double Akers) clasp • Back action clasp • Multiple clasps • Half-and-half Clasp <ul style="list-style-type: none"> • Reverse-action clasp (Hairpin) • Disadvantages of circumferential clasps in summary • Clasps designed to accommodate distal extension functional movement <ul style="list-style-type: none"> • RPI clasp • Bar-type clasp assembly 			
12	1	<p>Intracranial Direct Retainers Internal Attachments, Precision Attachments</p> <ul style="list-style-type: none"> • Internal attachments • Precision Attachments } Some indications for precision attachments } Some of the contraindications for precision attachments } The main types of precision attachments 	Prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
13	1	<p>Stress-Breakers (Stress Equalizers)</p> <ul style="list-style-type: none"> • Stress breakers <ul style="list-style-type: none"> } Types of stress breakers 	Prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
14	1	<p>Indirect Retainers</p> <ul style="list-style-type: none"> • The main factors influencing the effectiveness of an indirect retainer • The auxiliary 	Prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams

		functions of indirect retainers • Forms of Indirect Retainers			
15	1	Indirect Retainers (continue) • Auxiliary occlusal rest • Lingualrest • Incisal rest • Canine extensions from occlusal rests • Cingulum bars (continuous bars) and linguo-plates • Modification areas • Rugae support	Prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
16	1	Laboratory procedures in RPD construction: Block out and Relief • 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	Prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
17	1	Laboratory procedures in RPD construction: Duplication and Refractory Cast Construction • Duplicating a stone cast • Duplicating material and flask • Impression • Refractory cast	Prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
18	1	Laboratory procedures in RPD construction: Wax Pattern • Waxing the framework • Spruing	Prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams

		<ul style="list-style-type: none"> • General rules for spruing • Investing the sprued pattern <ul style="list-style-type: none"> • Purpose of investment • Burnout 			
19	1	<p>Laboratory procedures in RPD construction: Casting and Finishing</p> <ul style="list-style-type: none"> • Casting • Casting recovery • Finishing the framework • Sprue removal 	Prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
20	1	<p>Denture Base in RPD</p> <ul style="list-style-type: none"> • The primary function of denture base • Types of denture base according to support <ul style="list-style-type: none"> • Types of the denture base according to materials • Advantages of metal denture base • Disadvantages of metal denture base • Design consideration of denture base <ul style="list-style-type: none"> • Periodontal consideration of denture base design • Types of artificial teeth 	Prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
21	1	<p>Record Bases Occlusion Rims Mounting and Arrangement of Teeth</p> <ul style="list-style-type: none"> • Record bases • Types of record bases according to materials 	Prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams

		<p>constructed from it</p> <ul style="list-style-type: none"> • 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 <ul style="list-style-type: none"> • Laboratory procedure of arrangement teeth (Example) 			
22	1	<p>Biomechanics of Removable Partial Dentures</p> <ul style="list-style-type: none"> • Biomechanical considerations <ul style="list-style-type: none"> • Possible movements of partial dentures • Tooth-tissue-supported prosthesis 	Prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
23	1	<p>Biomechanics of Removable Partial Dentures (continue)</p> <ul style="list-style-type: none"> • Tooth-supported partial denture <ul style="list-style-type: none"> • Occlusal Rest Seat Preparation and Denture Movement • Impact of 	Prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams

		Implants on Movements of Partial Dentures			
24	1	<p>Principles of Removable Partial Denture Design</p> <ul style="list-style-type: none"> • Difference in Prosthesis Support and Influence on Design • Differentiation Between Two Main Types of Removable Partial Dentures 	Prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
25	1	<p>Principles of Removable Partial Denture Design (continue)</p> <ul style="list-style-type: none"> • Components of Partial Denture Design • Implant Considerations in Design 	Prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
26	1	<p>Clinical Phases of Removable Partial Denture Construction.</p> <p>□ 1st Phase: Education of Patient</p> <ul style="list-style-type: none"> • 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: 	Prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams

		<p>Establishment and Verification of Occlusal Relations and Tooth Arrangements</p> <ul style="list-style-type: none"> • 5th Phase: Initial Placement Procedures • 6th phase: Periodic Recall 			
27	1	<p>Acrylic Removable Partial Dentures</p> <ul style="list-style-type: none"> • Acrylic removable partial dentures • Appearance • Maintenance of space <ul style="list-style-type: none"> • Reestablishment of occlusal relationships <ul style="list-style-type: none"> • Conditioning of teeth and residual ridges <ul style="list-style-type: none"> • Interim restoration during treatment • Conditioning the patient for wearing a prosthesis <ul style="list-style-type: none"> • Clinical procedure for placement 	Prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
28	1	<p>Flexible Removable Partial Dentures</p> <ul style="list-style-type: none"> • Flexible removable partial dentures • Type of material used for the flexible denture • Support • Retention 	Prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams

29	1	Repairs and Additions to Removable Partial Dentures <ul style="list-style-type: none"> • 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 	Prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
30	1	Digitally Designed & Fabrication Process of RPD Framework Using CAD/CAM System <ul style="list-style-type: none"> • Components of CAD/CAM system • Types of Digital Scanner • Digital RPD Framework Design (step by step) • Digital Fabrication Process 	Prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams

11. Course evaluation

- Theoretical and practical exams, in addition to the treatment requirements, which are a number of cases that the student must treat in a correct, accurate and complete manner in order to calculate them from the requirements of the annual quest as well as the graduation project
- Monthly, semi-annual and annual exams
- Daily attendance and participation in scientific questions / activity

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)

- Lectures summarizing the important topics.

Main references

- McCracken's Removable Partial Prosthodontics 13th Edition - November 3, 2015

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|--|---|
| | <ul style="list-style-type: none">○ Robert, W. L. (2018) Removable Partial Denture Manual. Dalhousie University |
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General Pathology

Course Description

1. Course Name	
General Pathology	
2. Course Code	
321PA	
3. Semester / Year	
Third year	
4. Description Preparation Date	
2025	
5. Available Attendance Forms	
Theoretical and practical	
6. Number of Credit Hours (Total) / Number of Units (Total)	
30 theoretical + 60 practical	
7. Course administrator's name (mention all, if more than one name)	
Name: ا.د. محسن عبد علي عبد صاحب م.د. شيماء ناهي نعيم	
8. Course Objectives	
Course objective	Course objectives <ul style="list-style-type: none">○ Rehabilitation of dentists who are able to know the causes of various general diseases and study the diagnosis of various diseases and methods of using different dyes to know these diseases and their causes. Cognitive goals <ul style="list-style-type: none">○ Formulating and programming information in a way that enables the student to absorb it and increase knowledge regarding the theoretical and practical aspects.○ The ability to distinguish between different diseases.○ How to use dyes.○ Learn how to cut tissue The skills objectives of the course <ul style="list-style-type: none">○ According to the teaching method used, such as discussion, lecture, questioning, to enable the student to know how to use dyes.○ Enabling the student to know how to cut tissue.○ The use of laboratories and scientific experiments to increase the student's understanding and see this in practice to enable him to know and distinguish between various diseases.

9. Teaching and Learning Strategies

Strategy	<ul style="list-style-type: none"> ○ Giving scientific and theoretical lectures through screens, PowerPoint, and slides, and practical experiments in the educational laboratories of the college.
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10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2	Introduction to pathology Clinical pathology Molecular pathology Cell damage reversible cell injury	General Pathology	A theoretical lecture using power point	Short, semester, half-year and final exams
2	2	Irreversible cell injury Deposits and pigmentation External and internal pigmentation	General Pathology	A theoretical lecture using power point	Short, semester, half-year and final exams
3	2	Inflammation Acute inflammation Chronic pathology Chemical mediators	General Pathology	A theoretical lecture using power point	Short, semester, half-year and final exams
4	2	Healing and repair Healing of skin wound Healing of bone	General Pathology	A theoretical lecture using power point	Short, semester, half-year and final exams
5	2	Hemodynamic Disorders, Thromboembolic Disease, and Shock	General Pathology	A theoretical lecture using power point	Short, semester, half-year and final exams
6	2	Genetic	General Pathology	A theoretical lecture using power point	Short, semester, half-year and final exams
7	2	Diseases of the Immune System Hypersensitivity Autoimmune	General Pathology	A theoretical lecture using power point	Short, semester, half-year and

		diseases Transplantation			final exams
8	2	Neoplasia benign and malignant tumors molecular basis of tumors	General Pathology	A theoretical lecture using power point	Short, semester, half-year and final exams
9	2	Infections Bacterial and viral infection	General Pathology	A theoretical lecture using power point	Short, semester, half-year and final exams
10	2	Environmental and Nutritional Diseases	General Pathology	A theoretical lecture using power point	Short, semester, half-year and final exams
11	2	Blood Vessels	General Pathology	A theoretical lecture using power point	Short, semester, half-year and final exams
12	2	The Heart	General Pathology	A theoretical lecture using power point	Short, semester, half-year and final exams
13	2	Red Blood Cell and Bleeding Disorders	General Pathology	A theoretical lecture using power point	Short, semester, half-year and final exams
14	2	Diseases of White Blood Cells	General Pathology	A theoretical lecture using power point	Short, semester, half-year and final exams
15	2	Diseases of G.I.T	General Pathology	A theoretical lecture using power point	Short, semester, half-year and final exams
16	2	Diseases of liver,	General Pathology	A theoretical lecture using power point	Short, semester, half-year and final exams

17	2	pancreas and gall bladder	General Pathology	A theoretical lecture using power point	Short, semester, half-year and final exams
18	2	Diseases of respiratory system	General Pathology	A theoretical lecture using power point	Short, semester, half-year and final exams
19	2	Bone diseases	General Pathology	A theoretical lecture using power point	Short, semester, half-year and final exams
20	2	Kidney	General Pathology	A theoretical lecture using power point	Short, semester, half-year and final exams
21	2	Urinary system	General Pathology	A theoretical lecture using power point	Short, semester, half-year and final exams

11. Course evaluation

- Theoretical and practical exams, in addition to the treatment requirements, which are a number of cases that the student must treat in a correct, accurate and complete manner in order to calculate them from the requirements of the annual quest as well as the graduation project
- Monthly, semi-annual and annual exams
- Daily attendance and participation in scientific questions / activity

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	<ul style="list-style-type: none"> ○ Lectures summarizing the important topics.
Main references	<ul style="list-style-type: none"> ○ Oral and maxillofacial pathology. Brad Neville, Douglas Damm Carl Allen and Jerry Bouquot. 4th edition. 2016, Elsevier. ○ Robinson, Max, Keith Hunter, Michael Pemberton, and Philip Sloan. Soames' & Southam's Oral Pathology. 2018, Oxford University Press.

Pharmacology

Course Description

1. Course Name	
Pharmacology	
2. Course Code	
317PC	
3. Semester / Year	
Third year	
4. Description Preparation Date	
2025	
5. Available Attendance Forms	
Theoretical and practical	
6. Number of Credit Hours (Total) / Number of Units (Total)	
60 theoretical + 60 practical	
7. Course administrator's name (mention all, if more than one name)	
Name: ا.م.د. طارق محمد السوداني	
8. Course Objectives	
Course objective	Course objectives <ul style="list-style-type: none">○ Preparing a student at a high level of scientific and accuracy in dealing with medicines that are related to his exact specialization as a dentist and other specialties (medicine in general) so that no kind of interference occurs. Cognitive goals <ul style="list-style-type: none">○ Learn medicine.○ Learn its effects.○ Giving medicine lectures.○ Contraindications to the use of medicines. The skills objectives of the course <ul style="list-style-type: none">○ Dealing with medicines.○ Dealing with laboratory animals.
9. Teaching and Learning Strategies	
Strategy	<ul style="list-style-type: none">○ Giving scientific and theoretical lectures through display screens and PowerPoint.

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2	General Pharmacology	Pharmacology	A theoretical lecture using power point	Short, semester, half-year and final exams
2	2	Pharmacokinetics and pharmacodynamics	Pharmacology	A theoretical lecture using power point	Short, semester, half-year and final exams
3	2	Autonomic nervous system from a pharmacological perspective (including cholinergic agonist and antagonist)	Pharmacology	A theoretical lecture using power point	Short, semester, half-year and final exams
4	2	Adrenergic drugs (agonist)	Pharmacology	A theoretical lecture using power point	Short, semester, half-year and final exams
5	2	Adrenergic drugs (antagonist)	Pharmacology	A theoretical lecture using power point	Short, semester, half-year and final exams
6	2	Antihypertensive drugs	Pharmacology	A theoretical lecture using power point	Short, semester, half-year and final exams
7	2	Management of angina and Heart failure	Pharmacology	A theoretical lecture using power point	Short, semester, half-year and final exams
8	2	Management of arrhythmias	Pharmacology	A theoretical lecture using power point	Short, semester, half-year and final exams
9	2	Anticoagulants, antiplatelet and anti-hyperlipidemic	Pharmacology	A theoretical lecture using power point	Short, semester, half-year and final exams

		drugs			
10	2	Local Hemostatic Agents in Dentistry	Pharmacology	A theoretical lecture using power point	Short, semester, half-year and final exams
11	2	Introduction the pharmacology of CNS drugs, sedative, hypnotics and antiseizures drugs	Pharmacology	A theoretical lecture using power point	Short, semester, half-year and final exams
12	2	Antipsychotic and antidepressant drugs	Pharmacology	A theoretical lecture using power point	Short, semester, half-year and final exams
13	2	Local and General anesthetics	Pharmacology	A theoretical lecture using power point	Short, semester, half-year and final exams
14	2	Drug of abuse and opioid analgesics	Pharmacology	A theoretical lecture using power point	Short, semester, half-year and final exams
15	2	Managements of diabetes mellitus	Pharmacology	A theoretical lecture using power point	Short, semester, half-year and final exams
16	2	Drugs affecting GIT	Pharmacology	A theoretical lecture using power point	Short, semester, half-year and final exams
17	2	Drugs acting on respiratory system (antihistamines and corticosteroids 3	Pharmacology	A theoretical lecture using power point	Short, semester, half-year and final exams
18	2	Non-steroidal anti-inflammatory drugs (NSAIDs)	Pharmacology	A theoretical lecture using power point	Short, semester, half-year and final exams

		part 1			
19	2	Non-steroidal anti-inflammatory drugs (NSAIDs) part2 and Steroids in Dentistry 2	Pharmacology	A theoretical lecture using power point	Short, semester, half-year and final exams
20	2	(Chemotherapeutic drugs (Principles of antimicrobial therapy	Pharmacology	A theoretical lecture using power point	Short, semester, half-year and final exams
21	2	Cell wall inhibitors (part 1	Pharmacology	A theoretical lecture using power point	Short, semester, half-year and final exams
22	2	Cell wall inhibitors (part2	Pharmacology	A theoretical lecture using power point	Short, semester, half-year and final exams
23	2	Protein synthesis inhibitors 2	Pharmacology	A theoretical lecture using power point	Short, semester, half-year and final exams
24	2	Quinolones, Folic acid antagonists and antimycobacterial	Pharmacology	A theoretical lecture using power point	Short, semester, half-year and final exams
25	2	Antifungal, antiviral and antiprotozoal drugs 2	Pharmacology	A theoretical lecture using power point	Short, semester, half-year and final exams
26	2	Sex hormone and contraceptive 2	Pharmacology	A theoretical lecture using power point	Short, semester, half-year and final exams
27	2	Thyroid hormones and anti-thyroid drugs 2	Pharmacology	A theoretical lecture using power point	Short, semester, half-year and

					final exams
28	2	Anticancer drugs 1	Pharmacology	A theoretical lecture using power point	Short, semester, half-year and final exams
29	2	Dental Pharmacology: drugs and chemicals used in dental clini	Pharmacology	A theoretical lecture using power point	Short, semester, half-year and final exams
30	2	Anticaries and drugs used in prevention of dental plaque	Pharmacology	A theoretical lecture using power point	Short, semester, half-year and final exams

11. Course evaluation

- Daily exam scores
- Semester Exams
- Weekly reports of practical experiences
- Daily attendance and participation in scientific questions/activity

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	○ Lectures summarizing the important topics.
Main references	○ Pharmacology (Lippincott Karen Whalen Illustrated Reviews Series) 7th Edition (2019)

Oral Surgery

Course Description

1. Course Name	
Oral Surgery	
2. Course Code	
322OS	
3. Semester / Year	
Third year	
4. Description Preparation Date	
2025	
5. Available Attendance Forms	
Theoretical and practical	
6. Number of Credit Hours (Total) / Number of Units (Total)	
30 theoretical + 60 practical	
7. Course administrator's name (mention all, if more than one name)	
Name: م.د. مرتضى محمد باقر	
8. Course Objectives	
Course objective	<p>Course objectives</p> <ul style="list-style-type: none">○ □ The microbiology lesson aims to identify the principles of microbiology and epidemic diseases, and this course aims to know the characteristics of microorganisms in general and the special characteristics of pathogenic microorganisms such as bacteria, fungi and viruses, the mechanics of the latest diseases by these organisms, their diagnosis and how to differentiate between each of these pathogens and the examinations that reveal This course also aims to study immunity, the mechanisms of body defenses, the immune response to diseases, and sterilization methods. <p>Cognitive goals</p> <ul style="list-style-type: none">○ Identifying beneficial microorganisms for humans○ Identify pathogenic microorganisms○ Methods of transmission diagnosed in the laboratory○ Identifying the body's immunity and its types○ The relationship between the human body and microorganisms○ Learn about sterilization methods <p>The skills objectives of the course</p> <ul style="list-style-type: none">○ Learn modern methods for diagnosing pathological microorganisms○ Identifying the microorganisms that cause new epidemics○ Multiple causes of different diseases

9. Teaching and Learning Strategies

Strategy	<ul style="list-style-type: none"> ○ Giving practical and theoretical lectures through display screens and PowerPoint and watching educational films.
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10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	1	Diagnosis in oral surgery <ul style="list-style-type: none"> <input type="checkbox"/> History taking <input type="checkbox"/> Demographic data <input type="checkbox"/> Chief complaint <input type="checkbox"/> History of present complaint <input type="checkbox"/> Past dental and medical history <input type="checkbox"/> Social and family history 	Oral Surgery	A theoretical lecture using power point	Short, semester, half-year and final exams
2	1	Diagnosis in oral surgery <ul style="list-style-type: none"> <input type="checkbox"/> Examination <input type="checkbox"/> Extra-oral examination <input type="checkbox"/> Intra-oral examination <input type="checkbox"/> Differential diagnosis <input type="checkbox"/> Diagnosis of pain, lump, and ulcer <input type="checkbox"/> Consent 	Oral Surgery	A theoretical lecture using power point	Short, semester, half-year and final exams
3	1	Infection Control in Surgical Practice <ul style="list-style-type: none"> <input type="checkbox"/> Communicable pathogenic organisms <input type="checkbox"/> Aseptic techniques <input type="checkbox"/> Terminology <input type="checkbox"/> Concepts <input type="checkbox"/> Techniques of Instrument Sterilization; Sterilization with Heat; Sterilization with Gas <input type="checkbox"/> Techniques of Instrument 	Oral Surgery	A theoretical lecture using power point	Short, semester, half-year and final exams

		Disinfection			
4	1	Infection Control in Surgical Practice <ul style="list-style-type: none"> <input type="checkbox"/> Maintenance of Sterility <input type="checkbox"/> Surgical Field Maintenance <input type="checkbox"/> Operatory Disinfection <input type="checkbox"/> Surgical Staff Preparation <input type="checkbox"/> Postsurgical Asepsis 	Oral Surgery	A theoretical lecture using power point	Short, semester, half-year and final exams
5	1	Extraction of teeth and Contra indications of extraction <ul style="list-style-type: none"> <input type="checkbox"/> Extraction of teeth (exodontia). <ul style="list-style-type: none"> <input type="checkbox"/> Definition. <input type="checkbox"/> Methods of extraction. <input type="checkbox"/> Indications of teeth extraction. <ul style="list-style-type: none"> Severe caries. <input type="checkbox"/> Severe periodontal disease. <ul style="list-style-type: none"> <input type="checkbox"/> Pulp pathology. <input type="checkbox"/> Apical pathology. <input type="checkbox"/> Orthodontic reasons. <ul style="list-style-type: none"> <input type="checkbox"/> Prosthetic considerations. <input type="checkbox"/> Impacted teeth. <input type="checkbox"/> Supernumerary teeth. <input type="checkbox"/> Tooth in the line of fracture of the jaws. <ul style="list-style-type: none"> <input type="checkbox"/> Teeth in relation with pathological conditions. <input type="checkbox"/> Retained roots. <input type="checkbox"/> Prior to irradiation. <ul style="list-style-type: none"> <input type="checkbox"/> Focal sepsis. <input type="checkbox"/> Aesthetic 	Oral Surgery	A theoretical lecture using power point	Short, semester, half-year and final exams

6	1	<p>Extraction of teeth and Contra indications of extraction</p> <ul style="list-style-type: none"> <input type="checkbox"/> Contra-indications of teeth extraction. <ul style="list-style-type: none"> <input type="checkbox"/> Local contra-indications. <input type="checkbox"/> Systemic contra-indications. <input type="checkbox"/> Pre-extraction evaluation. <input type="checkbox"/> Clinical preoperative evaluation. <input type="checkbox"/> General evaluation. <ul style="list-style-type: none"> <input type="checkbox"/> Local evaluation. <ul style="list-style-type: none"> <input type="checkbox"/> Radiological evaluation. <input type="checkbox"/> Objectives and benefits 	Oral Surgery	A theoretical lecture using power point	Short, semester, half-year and final exams
7	1	<p>General arrangement for extraction and Dental forceps types</p> <ul style="list-style-type: none"> <input type="checkbox"/> Light. <input type="checkbox"/> Position of the operator. <input type="checkbox"/> Position of the patient. <input type="checkbox"/> Height of the dental chair. <ul style="list-style-type: none"> <input type="checkbox"/> Parts of dental forceps. <input type="checkbox"/> Forceps for the maxillary teeth. <input type="checkbox"/> Forceps of upper anterior teeth. <input type="checkbox"/> Forceps of upper premolars. <input type="checkbox"/> Forceps of upper molars. <input type="checkbox"/> Bayonet of upper posterior teeth. 	Oral Surgery	A theoretical lecture using power point	Short, semester, half-year and final exams
8	1	<p>General arrangement for extraction and Dental forceps types</p> <ul style="list-style-type: none"> <input type="checkbox"/> Forceps for the mandibular teeth. <input type="checkbox"/> Forceps of lower 	Oral Surgery	A theoretical lecture using power point	Short, semester, half-year and final exams

		<p>anterior teeth.</p> <ul style="list-style-type: none"> <input type="checkbox"/> Forceps of lower premolars. <input type="checkbox"/> Forceps of lower molars. <input type="checkbox"/> Bayonet of lower posterior teeth. <input type="checkbox"/> Mechanical principle of forceps (traditional) extraction <ul style="list-style-type: none"> <input type="checkbox"/> Physic forceps. <ul style="list-style-type: none"> <input type="checkbox"/> Parts. <input type="checkbox"/> Mechanical principle and technique 			
9	1	<p>Techniques of forceps extraction and post-operative instructions</p> <ul style="list-style-type: none"> <input type="checkbox"/> Soft tissue retraction. <ul style="list-style-type: none"> <input type="checkbox"/> Handling of the forceps. <input type="checkbox"/> Cheek retraction and support (the use of the non-working hand.(<ul style="list-style-type: none"> <input type="checkbox"/> The application of the forceps blades to the tooth (tooth grasp.(<input type="checkbox"/> The displacement of the tooth from its socket. <input type="checkbox"/> Post-operative care to the extraction socket. <input type="checkbox"/> Instruction to the patient 	Oral Surgery	A theoretical lecture using power point	Short, semester, half-year and final exams
10	1	<p>Elevators</p> <ul style="list-style-type: none"> <input type="checkbox"/> Line of withdrawal. <input type="checkbox"/> Point of application. <ul style="list-style-type: none"> <input type="checkbox"/> Parts of dental elevators. <ul style="list-style-type: none"> <input type="checkbox"/> Mechanical principles of using dental elevators. <input type="checkbox"/> Wheel and axil. <ul style="list-style-type: none"> <input type="checkbox"/> Fulcrum. <input type="checkbox"/> Wedging. <input type="checkbox"/> Combination of mechanical principles. 	Oral Surgery	A theoretical lecture using power point	Short, semester, half-year and final exams

11	1	<p>Elevators</p> <ul style="list-style-type: none"> <input type="checkbox"/> Clinical uses of elevators. <input type="checkbox"/> Straight elevators. <input type="checkbox"/> Coupland's chisel. <input type="checkbox"/> Cryer's elevator. <input type="checkbox"/> Winter's elevator. <input type="checkbox"/> Apexo elevator. <input type="checkbox"/> Warwick-James elevator. <input type="checkbox"/> Guiding principles for using dental elevators. <input type="checkbox"/> Complications of using dental elevators. 	Oral Surgery	A theoretical lecture using power point	Short, semester, half-year and final exams
12	1	<p>Complications of dental extraction</p> <ul style="list-style-type: none"> <input type="checkbox"/> Failure to secure anesthesia. <input type="checkbox"/> Failure to remove the tooth with either forceps or elevator. <ul style="list-style-type: none"> <input type="checkbox"/> Fracture (#) of crowns and roots, alveolar bone, maxillary tuberosity, adjacent or opposing tooth, mandible. <input type="checkbox"/> Dislocation of the temporo-mandibular joint (T.M.J.). <input type="checkbox"/> Displacement of a root into the soft tissue and tissue spaces and the maxillary antrum. 	Oral Surgery	A theoretical lecture using power point	Short, semester, half-year and final exams
13	1	<p>Complications of dental extraction</p> <ul style="list-style-type: none"> <input type="checkbox"/> Excessive bleeding after extraction. <ul style="list-style-type: none"> <input type="checkbox"/> Damage to the surrounding soft tissues. <input type="checkbox"/> Post-operative pain. <ul style="list-style-type: none"> <input type="checkbox"/> Post-operative swelling. <input type="checkbox"/> Creation of an oro-antral communication. <ul style="list-style-type: none"> <input type="checkbox"/> Trismus. 	Oral Surgery	A theoretical lecture using power point	Short, semester, half-year and final exams

14	1	<p>Basic surgical instruments</p> <ul style="list-style-type: none"> <input type="checkbox"/> Instruments of basic oral surgery. <input type="checkbox"/> Instruments to incise tissues. <ul style="list-style-type: none"> <input type="checkbox"/> Instruments for elevating mucoperiosteum. <input type="checkbox"/> Instruments for controlling hemorrhage. <input type="checkbox"/> Hemostat (artery forceps). <input type="checkbox"/> Instruments to grasp tissues. <ul style="list-style-type: none"> <input type="checkbox"/> Toothed-tissue forceps. <input type="checkbox"/> Allis tissue forceps. <ul style="list-style-type: none"> <input type="checkbox"/> Instruments for removing bone. <input type="checkbox"/> Ronger forceps (bone cutter and bone nibbler). <input type="checkbox"/> Chisel and mallet. <ul style="list-style-type: none"> <input type="checkbox"/> Bone file. <input type="checkbox"/> Surgical burs and handpiece. <ul style="list-style-type: none"> <input type="checkbox"/> Instruments to remove soft tissues from bony defects. <input type="checkbox"/> Surgical curette. <input type="checkbox"/> Instruments for suturing mucosa. <ul style="list-style-type: none"> <input type="checkbox"/> Needle holder. <ul style="list-style-type: none"> <input type="checkbox"/> Needles. <input type="checkbox"/> Suture materials <ul style="list-style-type: none"> <input type="checkbox"/> Scissors. <input type="checkbox"/> Instruments for retraction of soft tissues. <input type="checkbox"/> Cheek retractor. <input type="checkbox"/> Mucoperiosteal flap retractor. <ul style="list-style-type: none"> <input type="checkbox"/> Instruments for irrigation and for providing suction. <input type="checkbox"/> Instrument of draping 	<p>Oral Surgery</p>	<p>A theoretical lecture using power point</p>	<p>Short, semester, half-year and final exams</p>
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15	1	Introduction to local anesthesia <input type="checkbox"/> Neurophysiology <input type="checkbox"/> Mode and site of action of local anesthetic <input type="checkbox"/> Active forms of local anesthetics	Oral Surgery	A theoretical lecture using power point	Short, semester, half-year and final exams
16	1	Pharmacology of local anesthesia <input type="checkbox"/> Pharmacokinetics of local anesthetics <input type="checkbox"/> Metabolism <input type="checkbox"/> Systemic actions of local anesthetics	Oral Surgery	A theoretical lecture using power point	Short, semester, half-year and final exams
17	1	Pharmacology of local anesthesia <input type="checkbox"/> Vasoconstrictors <input type="checkbox"/> Mode of action <input type="checkbox"/> Dilutions of vasoconstrictors <input type="checkbox"/> Specific agents	Oral Surgery	A theoretical lecture using power point	Short, semester, half-year and final exams
18	1	Surgical anatomy in local anesthesia <input type="checkbox"/> Trigeminal nerve: <input type="checkbox"/> Ophthalmic branch <input type="checkbox"/> Maxillary branch <input type="checkbox"/> Mandibular branch	Oral Surgery	A theoretical lecture using power point	Short, semester, half-year and final exams
19	1	Surgical anatomy in local anesthesia <input type="checkbox"/> Osteology of the maxilla <input type="checkbox"/> Osteology of the mandible	Oral Surgery	A theoretical lecture using power point	Short, semester, half-year and final exams
20	1	Instruments of local anesthesia <input type="checkbox"/> The Syringe <input type="checkbox"/> The Needle <input type="checkbox"/> The Cartridge <input type="checkbox"/> Additional Armamentarium <input type="checkbox"/> Preparation of the Armamentarium	Oral Surgery	A theoretical lecture using power point	Short, semester, half-year and final exams
21	1	Techniques of local anesthesia <input type="checkbox"/> Basic injection techniques <input type="checkbox"/> Techniques of maxillary anesthesia <input type="checkbox"/> Local infiltration.	Oral Surgery	A theoretical lecture using power point	Short, semester, half-year and final exams

		<input type="checkbox"/> Posterior superior alveolar nerve block <input type="checkbox"/> Middle superior alveolar nerve block <input type="checkbox"/> Anterior superior alveolar nerve block (infraorbital nerve block) <input type="checkbox"/> Greater palatine nerve block <input type="checkbox"/> Nasopalatine nerve block <input type="checkbox"/> Maxillary nerve block			
22	1	Techniques of local anesthesia <input type="checkbox"/> Techniques of local anesthesia <input type="checkbox"/> Techniques of mandibular anesthesia <input type="checkbox"/> Inferior alveolar nerve block <input type="checkbox"/> Buccal nerve block <input type="checkbox"/> Mandibular nerve block: The Gow-Gates technique <input type="checkbox"/> Vazirani-Akinosi closed-mouth mandibular block <input type="checkbox"/> Mental nerve block <input type="checkbox"/> Incisive nerve block	Oral Surgery	A theoretical lecture using power point	Short, semester, half-year and final exams
23	1	Techniques of local anesthesia <input type="checkbox"/> Supplemental injection techniques <input type="checkbox"/> Intraosseous injection <input type="checkbox"/> Periodontal ligament injection <input type="checkbox"/> Intraseptal injection <input type="checkbox"/> Intrapulpal injection	Oral Surgery	A theoretical lecture using power point	Short, semester, half-year and final exams
24	1	Complications of local anesthesia <input type="checkbox"/> Local Complications <input type="checkbox"/> Needle breakage <input type="checkbox"/> Prolonged anesthesia (paresthesia) <input type="checkbox"/> Facial nerve	Oral Surgery	A theoretical lecture using power point	Short, semester, half-year and final exams

		<ul style="list-style-type: none"> paralysis <input type="checkbox"/> Ocular complications <input type="checkbox"/> Trismus <input type="checkbox"/> Soft tissue injury <input type="checkbox"/> Hematoma 			
25	1	<p>Complications of local anesthesia</p> <ul style="list-style-type: none"> <input type="checkbox"/> Pain on injection <input type="checkbox"/> Burning on injection <input type="checkbox"/> Infection <input type="checkbox"/> Edema <input type="checkbox"/> Sloughing of tissues <input type="checkbox"/> Postanesthetic intraoral lesions 	Oral Surgery	A theoretical lecture using power point	Short, semester, half-year and final exams
26	1	<p>Complications of local anesthesia</p> <ul style="list-style-type: none"> <input type="checkbox"/> Systemic complications <input type="checkbox"/> Overdose <input type="checkbox"/> Allergy 	Oral Surgery	A theoretical lecture using power point	Short, semester, half-year and final exams
27	1	<p>Advances in local anesthesia</p> <ul style="list-style-type: none"> <input type="checkbox"/> Computer controlled local anesthetic delivery <input type="checkbox"/> Articaine hydrochloride <input type="checkbox"/> Local anesthesia reversal <input type="checkbox"/> Buffering of local anesthetic solution <ul style="list-style-type: none"> <input type="checkbox"/> Nasal local anesthetic mist for maxillary nonmolar teeth 	Oral Surgery	A theoretical lecture using power point	Short, semester, half-year and final exams
28	1	<p>Conscious sedation</p> <ul style="list-style-type: none"> <input type="checkbox"/> Sedation techniques: Oral, sublingual, transdermal, intranasal, intramuscular, intravenous and inhalational <input type="checkbox"/> Nitrous oxide <input type="checkbox"/> Complications and medicolegal considerations 	Oral Surgery	A theoretical lecture using power point	Short, semester, half-year and final exams

29	1	Fundamentals of general anesthesia <input type="checkbox"/> Types of general anesthesia used in dentistry <input type="checkbox"/> Advantages <input type="checkbox"/> Disadvantages <input type="checkbox"/> Indications <input type="checkbox"/> Contraindications	Oral Surgery	A theoretical lecture using power point	Short, semester, half-year and final exams
30	1	Medical emergencies during dental treatment <input type="checkbox"/> Overview of medical emergencies <input type="checkbox"/> Basic measures, equipment and drugs <input type="checkbox"/> Common emergencies <input type="checkbox"/> Collapse <input type="checkbox"/> Anaphylaxis <input type="checkbox"/> Cardiac arrest <input type="checkbox"/> Diabetic collapse due to hypoglycemia <input type="checkbox"/> Fits and convulsions <input type="checkbox"/> Adrenal crisis <input type="checkbox"/> Acute severe asthma <input type="checkbox"/> Chest pain	Oral Surgery	A theoretical lecture using power point	Short, semester, half-year and final exams

11. Course evaluation

- Daily exam scores
- Semester Exams
- Daily attendance and participation in scientific questions/activity

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	<ul style="list-style-type: none"> ○ Lectures summarizing the important topics.
Main references	<ul style="list-style-type: none"> ○ Hand book of local anesthesia 7th edition Stanely F. Malamed , Elsevier.2019 ○ Contemporary oral and maxillofacial surgery 7th edition 2019 (Elsevier)

Dental Radiology

Course Description

1. Course Name	
Dental Radiology	
2. Course Code	
320RL	
3. Semester / Year	
Third year	
4. Description Preparation Date	
2025	
5. Available Attendance Forms	
Theoretical and practical	
6. Number of Credit Hours (Total) / Number of Units (Total)	
30 theoretical + 60 practical	
7. Course administrator's name (mention all, if more than one name)	
Name: ا.م.د. سعد محمد حسن م.د. عماد حسان محمود	
8. Course Objectives	
Course objective	Course objectives <ul style="list-style-type: none">○ Rehabilitation of dentists who are able to read and diagnose radiological images, how to work on radiological devices correctly, and how to deal with radiation risks. Cognitive goals <ul style="list-style-type: none">○ Enabling the student to use x-rays in the correct manner.○ Explain the importance of protection and protection from radiation and its risks.○ Enabling the student to read and diagnose radiographs of all kinds.○ Giving sufficient information about the latest types of devices and diagnostic methods in the field of oral and maxillofacial radiology The skills objectives of the course <ul style="list-style-type: none">○ Read radiographs.○ Use of equipment.○ Possibility of protection from radiation hazards.
9. Teaching and Learning Strategies	

Strategy	<ul style="list-style-type: none"> ○ Giving Giving scientific and theoretical lectures through screens, PowerPoint, and slides, and practical experiments in the educational laboratories of the college.
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10. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	1	Physics of radioation(introduction and definitions of nature of radiation, type of radiation)	Dental Radiology	A theoretical lecture using power point	Short, semester, half-year and final exams
2	1	Production& interaction of X-ray	Dental Radiology	A theoretical lecture using power point	Short, semester, half-year and final exams
3	1	Film imaging (types of x-ray films, processing cycle,dark room, intensifying screen	Dental Radiology	A theoretical lecture using power point	Short, semester, half-year and final exams
4	1	Factors controlling x-ray beam , dosimetry and invers square low	Dental Radiology	A theoretical lecture using power point	Short, semester, half-year and final exams
5	1	Projection jeometry (sharpness, distortion, image characterstic and artifacts)	Dental Radiology	A theoretical lecture using power point	Short, semester, half-year and final exams
6	1	Biological effects of radiatin (direct & indirect effects, determistic and stochastic effect)	Dental Radiology	A theoretical lecture using power point	Short, semester, half-year and final exams
7	1	Safety and Protection (source of exposure , dose limits , exposure and risk and reducing dental exposure)	Dental Radiology	A theoretical lecture using power point	Short, semester, half-year and final exams
8	1	Intraoral projection (periapical, bitwing, and occlusal radiography)	Dental Radiology	A theoretical lecture using power point	Short, semester, half-year and

					final exams
9	1	Digital radiography (strength , limitations , comparing with conventional radiography and indications	Dental Radiology	A theoretical lecture using power point	Short, semester, half-year and final exams
10	1	Patient's management	Dental Radiology	A theoretical lecture using power point	Short, semester, half-year and final exams
11	1	Cephalometric imaging	Dental Radiology	A theoretical lecture using power point	Short, semester, half-year and final exams
12	1	Panoramic radiography	Dental Radiology	A theoretical lecture using power point	Short, semester, half-year and final exams
13	1	Craniofacial imaging	Dental Radiology	A theoretical lecture using power point	Short, semester, half-year and final exams
14	1	CBCT (principles, components, strength and limitations).	Dental Radiology	A theoretical lecture using power point	Short, semester, half-year and final exams
15	1	CBCT (clinical applications in maxillofacial region, anatomy and interpretations).	Dental Radiology	A theoretical lecture using power point	Short, semester, half-year and final exams
16	1	Radiographic anatomy part1 (teeth, supporting dentoalv structures, maxilla and mid facial bones)	Dental Radiology	A theoretical lecture using power point	Short, semester, half-year and final exams
17	1	Radiographic anatomy part 2	Dental Radiology	A theoretical lecture using power point	Short, semester, half-year and final exams

18	1	Advanced imaging modalities(CT, MRI AND ULTRASOUND)	Dental Radiology	A theoretical lecture using power point	Short, semester, half-year and final exams
19	1	Radiography & Implantology(modalities, indications)	Dental Radiology	A theoretical lecture using power point	Short, semester, half-year and final exams
20	1	Infection control(infection control in radiography clinic, protection of pt., protection of workers)	Dental Radiology	A theoretical lecture using power point	Short, semester, half-year and final exams
21	1	Prescribing diagnostic imaging(radiologic examination and guide lines for ordering imaging)	Dental Radiology	A theoretical lecture using power point	Short, semester, half-year and final exams
22	1	Radiographical interpretations of common diseases(interpretation of	Dental Radiology	A theoretical lecture using power point	Short, semester, half-year and final exams
23	1	Cysts of the jaw(odontogenic and non odontogenic cysts)	Dental Radiology	A theoretical lecture using power point	Short, semester, half-year and final exams
24	1	Inflammatory conditions of the jaws(periapical inf disease,	Dental Radiology	A theoretical lecture using power point	Short, semester, half-year and final exams
25	1	osteomyelitis, pericoronitis)	Dental Radiology	A theoretical lecture using power point	Short, semester, half-year and final exams
26	1	Trauma(dento alveolar trauma , dental fructures and bone fructues	Dental Radiology	A theoretical lecture using power point	Short, semester, half-year and final exams
27	1	TMJ abnormalities(anatomy of TMJ, application)	Dental Radiology	A theoretical lecture using power point	Short, semester, half-year and final exams

28	1	Salivary gland disease (imaging modalities, interpretation)	Dental Radiology	A theoretical lecture using power point	Short, semester, half-year and final exams
29	1	Craniofacial anomalies (Cleft lip and palat)	Dental Radiology	A theoretical lecture using power point	Short, semester, half-year and final exams
30	1	Computed tomography(indications ,strength, limitations)	Dental Radiology	A theoretical lecture using power point	Short, semester, half-year and final exams

11. Course evaluation

- Daily exam scores
- Semester Exams
- Weekly reports of practical experiences
- Daily attendance and participation in scientific questions / activity

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	<ul style="list-style-type: none"> ○ Lectures summarizing the important topics.
Main references	<ul style="list-style-type: none"> ○ White and Pharoah's Oral radiology principles and interpretation. Sanjay Mallya and Ernest Lam. 8th edition. 2019, Elsevier. ○ Ghom, Anil Govindrao. Textbook of oral radiology-E-Book. 2016, Elsevier Health Sciences.

Preclinical Operative Dentistry

Course Description

1. Course Name	
Preclinical Operative Dentistry	
2. Course Code	
319CV	
3. Semester / Year	
Third year	
4. Description Preparation Date	
2025	
5. Available Attendance Forms	
Theoretical and practical	
6. Number of Credit Hours (Total) / Number of Units (Total)	
30 theoretical + 60 practical	
7. Course administrator's name (mention all, if more than one name)	
Name: م.م. زهراء صاحب مزعل	
8. Course Objectives	
Course objective	Course objectives <ul style="list-style-type: none">○ Training the student on how to examine patients and diagnose the condition with the approved modern diagnostic methods, then prepare the treatment plan, then start treating the disease in a correct scientific way and use modern materials and methods in the treatment of root canals by giving theoretical lectures while working in clinics. Students are also trained on root fillings on Teeth extracted to prepare them for clinical work on patients Cognitive goals <ul style="list-style-type: none">○ Training the student on how to examine and diagnose disease states.○ Give important information and treatment steps.○ Giving instructions and following up root filling operations The skills objectives of the course <ul style="list-style-type: none">○ Describe the tools used to prepare the canals for root fillings.○ Teaching the student how to use it and follow it during work.
9. Teaching and Learning Strategies	
Strategy	<ul style="list-style-type: none">○ Giving practical and theoretical lectures through display screens and PowerPoint○ Live explanation and dealing with all kinds of materials mentioned within the curriculum in front of the students after dividing them into groups on the

	<p>number of days of the week and explaining all the steps with a detailed explanation</p> <ul style="list-style-type: none"> ○ Summer Internship ○ Group educational workshops ○ Seminars
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1. Course Structure					
Part 1: Preclinical Operative Dentistry					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	1	Introduction to Operative Dentistry	Preclinical Operative Dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams
2	1	Dental caries, types, and classifications	Preclinical Operative Dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams
3	1	Instruments and general instrumentation for cavity preparation	Preclinical Operative Dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams
4	1	Principle of cavity preparation + classification of cavities	Preclinical Operative Dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams
5	1	Factors that affect cavity preparation	Preclinical Operative Dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams
6	1	Cavity preparations for CI I	Preclinical Operative Dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams
7	1	Cavity preparations for CI II	Preclinical Operative Dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams

8	1	Cavity preparations for CI III & CI IV	Preclinical Operative Dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams
9	1	Cavity preparations for CI V	Preclinical Operative Dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams
10	1	Tooth colored restorations (Classification and types)	Preclinical Operative Dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams
11	1	Dental composite resins	Preclinical Operative Dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams
12	1	Adhesives systems	Preclinical Operative Dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams
13	1	Rubber Dam types and application procedures	Preclinical Operative Dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams
14	1	Direct composite resin restoration of CL I, III, IV, and V cavities	Preclinical Operative Dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams
15	1	Direct composite resin restoration of CL II cavity	Preclinical Operative Dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams

1. Course Structure
Part 2: Preclinical Operative Dentistry

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	1	Complex composite restoration (principles of preparation)	Preclinical Operative Dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams
2	1	Complex composite restoration (restorative procedures)	Preclinical Operative Dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams
3	1	Direct composite veneers (indications and principles)	Preclinical Operative Dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams
4	1	Direct composite veneers (restorative procedures)	Preclinical Operative Dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams
5	1	Color Matching and Composite Shade Selection	Preclinical Operative Dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams
6	1	Light Curing of Restorative Materials	Preclinical Operative Dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams
7	1	Glass Ionomer restorations	Preclinical Operative Dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams
8	1	Failures in composite restoration (repair and replacement)	Preclinical Operative Dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams
9	1	Re mineralization and resin infiltration techniques	Preclinical Operative Dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams
10	1	Amalgam Restorations: Clinical Relevance, Longevity, and Failure Patterns"	Preclinical Operative Dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams

11	1	Removal of amalgam restorations and mercury hazards	Preclinical Operative Dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams
12	1	Pulp protection	Preclinical Operative Dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams
13	1	Liners and base materials	Preclinical Operative Dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams
14	1	Sterilization of operative instruments Part I	Preclinical Operative Dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams
15	1	Sterilization of operative instruments, part II	Preclinical Operative Dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams

Preclinical Fixed prosthodontics :-

Course Structure					
Preclinical Fixed prosthodontics					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	1	Definitions	Preclinical Fixed prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
2	1	Definitions	Preclinical Fixed prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
3	1	Definitions	Preclinical Fixed prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
4	1	Biomechanical principles of tooth preparation:	Preclinical Fixed prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams

5	1	Biomechanical principles of tooth preparation:	Preclinical Fixed prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
6	1	Biomechanical principles of tooth preparation:	Preclinical Fixed prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
7	1	Full metal crown	Preclinical Fixed prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
8	1	Full metal crown	Preclinical Fixed prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
9	1	Porcelain fused to metal crown	Preclinical Fixed prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
10	1	Porcelain fused to metal crown	Preclinical Fixed prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
11	1	Complete ceramic crown (Porcelain Jacket Crown)	Preclinical Fixed prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
12	1	Complete ceramic crown (Porcelain Jacket Crown)	Preclinical Fixed prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
13	1	Partial veneer crown (three-quarter crown)	Preclinical Fixed prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
14	1	Partial veneer crown (three-quarter crown)	Preclinical Fixed prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
15	1	Post crown	Preclinical Fixed prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams

16	1	Post crown	Preclinical Fixed prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
17	1	Impression for crown and bridge work	Preclinical Fixed prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
18	1	Impression for crown and bridge work	Preclinical Fixed prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
19	1	Provisional restoration	Preclinical Fixed prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
20	1	Provisional restoration	Preclinical Fixed prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
21	1	Working cast and dies	Preclinical Fixed prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
22	1	Working cast and dies	Preclinical Fixed prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
23	1	Waxing, investing, casting	Preclinical Fixed prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
24	1	Waxing, investing, casting	Preclinical Fixed prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
25	1	Finishing of the casting and clinical try-in	Preclinical Fixed prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
26	1	Finishing of the casting and clinical try-in	Preclinical Fixed prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
27	1	Cementation	Preclinical Fixed prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams

28	1	Cementation	Preclinical Fixed prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
29	1	CAD /CAM Technology for crown construction	Preclinical Fixed prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
30	1	CAD /CAM Technology for crown construction	Preclinical Fixed prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams

10. Course evaluation

- Daily exam scores
- Semester Exams

11. Learning and Teaching Resources

Required textbooks (curricular books, if any)

- Lectures summarizing the important topics.

Main references

- Summitt's fundamentals of operative dentistry: A contemporary approach. 4th edition.
- Contemporary Fixed Prosthodontics, 2016 Elsevier. ROSENSTIEL, S. F., LAND, M. F. & FUJIMOTO, J.
- Sturdevant's Art and Science of Operative Dentistry, 7th edition.

Strategy	<ul style="list-style-type: none"> ○ Giving practical and theoretical lectures through display screens and PowerPoint ○ Live explanation and dealing with all kinds of materials mentioned within the curriculum in front of the students after dividing them into groups on the number of days of the week and explaining all the steps with a detailed explanation ○ Summer Internship ○ Group educational workshops ○ Seminars
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10. 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	A theoretical lecture using power point	Short, semester, half-year and final exams
2	2	-Microbial growth, growth curve -Metabolism of microorganisms Molecular biology & bacterial genetics	Microbiology	A theoretical lecture using power point	Short, semester, half-year and final exams
3	2	Sterilization and Disinfection	Microbiology	A theoretical lecture using power point	Short, semester, half-year and final exams
4	2	Antibiotic and chemotherapy:- -Antibiotic, sources -Mode of action of antibiotic -Anti-microbial sensitivity tests -Bacterial resistance -Prophylactic use	Microbiology	A theoretical lecture using power point	Short, semester, half-year and final exams
5	2	Introduction to general immunology and oral immunology -Non-specific and specific immunity	Microbiology	A theoretical lecture using power point	Short, semester, half-year and final exams

		-Antigen -Immunoglobulin - Humeral and Cellular Immunity			
6	2	Cells and organs of the immune system -Complement system -Human leukocyte antigen - Role of complement and HLA in oral disease	Microbiology	A theoretical lecture using power point	Short, semester, half-year and final exams
7	2	-Oral and mucosal immunity - Autoimmunity and immune tolerance	Microbiology	A theoretical lecture using power point	Short, semester, half-year and final exams
8	2	- Hypersensitivity reactions- Antimicrobial and immunological defenses of saliva and gingival crevicular fluid components	Microbiology	A theoretical lecture using power point	Short, semester, half-year 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	A theoretical lecture using power point	Short, semester, half-year and final exams
10	2	- Streptococci Pyogenic Streptococci -Lancefield group -Pathogenesis of streptococci -Epidemiology, treatment and prevention -Viridans streptococci -Pneumococci	Microbiology	A theoretical lecture using power point	Short, semester, half-year and final exams

11	2	<u>Staphylococci</u> <u>-Virulence factors - and pathogenesis</u> <u>-Epidemiology, treatment and prevention</u>	Microbiology	A theoretical lecture using power point	Short, semester, half-year and final exams
12	2	<u>G- negative diplococci</u> <u>, Vellionella and Moraxella</u> <u>Neisseria gonorrhoea, N. meningitidis</u>	Microbiology	A theoretical lecture using power point	Short, semester, half-year and final exams
13	2	<u>Lactobacilli,</u> <u>Actinomyces and Corynebacterium</u> <u>diphtheriae& Diphtheroids</u>	Microbiology	A theoretical lecture using power point	Short, semester, half-year and final exams
14	2	<u>Bacillus: B. subtilis,</u> <u>B. anthracis and B.ceres</u>	Microbiology	A theoretical lecture using power point	Short, semester, half-year and final exams
15	2	Clostridium : C. perfringens , C. tetani, C. botulinum, and Difficile	Microbiology	A theoretical lecture using power point	Short, semester, half-year and final exams
16	2	Enterobacteriaceae -E.coli, Salmonella, Shigella	Microbiology	A theoretical lecture using power point	Short, semester, half-year and final exams
17	2	Enterobacter, Klebsiella, proteus, Yersinia	Microbiology	A theoretical lecture using power point	Short, semester, half-year and final exams
18	2	Mycobacterium -Tuberculosis & Leprae	Microbiology	A theoretical lecture using power point	Short, semester, half-year and final exams
19	2	Brucella, Haemophilus, Vibrio	Microbiology	A theoretical lecture using power point	Short, semester, half-year and final exams

20	2	- Aggregatibacter, porphyromonas, prevotella, Bacteroids	Microbiology	A theoretical lecture using power point	Short, semester, half-year and final exams
21	2	Fusiforms and Spirochaetes -Fusobacterium, leptotichia	Microbiology	A theoretical lecture using power point	Short, semester, half-year and final exams
22	2	Treponema and oral Treponema	Microbiology	A theoretical lecture using power point	Short, semester, half-year and final exams
23	2	Mycoplasma, Chlamydia and Rickittsiae	Microbiology	A theoretical lecture using power point	Short, semester, half-year 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	A theoretical lecture using power point	Short, semester, half-year and final exams
25	2	Microbiology of dental caries -Dental plaque & plaque metabolism -plaque homeostasis -cariogenic microorganisms -Mutans Streptococci -Lactobacilli and Actinomyces-	Microbiology	A theoretical lecture using power point	Short, semester, half-year and final exams
26	2	Microbial colonization Caries prevention Antibacterial factors in saliva- -Vaccination against dental caries	Microbiology	A theoretical lecture using power point	Short, semester, half-year and final exams

27	2	<p>Microbiology of periodontal disease and Endodontics</p> <p>-Subgingival microbial complex</p> <p>-specific , non-specific and Ecological plaque hypothesis</p> <p>-Porphyromonas, prevotella, Aggregatibacter virulence factors of periodontal pathogens</p> <p>endodontic microbiota and Routes of root canal infection</p> <p>-ecology of endodontic microbiology</p>	Microbiology	A theoretical lecture using power point	Short, semester, half-year and final exams
28	2	<p>Virology</p> <p>general structure of viruses</p> <p>-classification</p>	Microbiology	A theoretical lecture using power point	Short, semester, half-year and final exams
29	2	<p>viral replication</p> <p>-Isolation & diagnosis</p> <p>-Oral virology</p>	Microbiology	A theoretical lecture using power point	Short, semester, half-year and final exams
30	2	<p>-Oral mycology and Oral parasitology</p> <p>-Introduction, epidemiology, transmission</p> <p>-E.histolotica, E.gingivalis, T.tenax</p> <p>-Fungal cells</p> <p>-classification</p> <p>-Candida</p>	Microbiology	A theoretical lecture using power point	Short, semester, half-year and final exams

11. Course evaluation

- Daily exam scores
- Monthly exams
- Daily attendance and participation in scientific questions / activity

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	<ul style="list-style-type: none">○ Lectures summarizing the important topics.
Main references	<ul style="list-style-type: none">○ - Kuby Immunology Eighth Edition ©2019 Jenni Punt; Sharon Stanford; Patricia Jones; Judy Owen

Community dentistry

Course Description

1. Course Name	
Community dentistry	
2. Course Code	
318CM	
3. Semester / Year	
Third year	
4. Description Preparation Date	
2025	
5. Available Attendance Forms	
Theoretical and practical	
6. Number of Credit Hours (Total) / Number of Units (Total)	
30 theoretical + 60 practical	
7. Course administrator's name (mention all, if more than one name)	
Name: ا.م.د. لمياء عبد الخالق محمد سعيد	
8. Course Objectives	
Course objective	Course objectives <ul style="list-style-type: none">○ Gives information to students about identifying and measuring oral diseases in the community to achieve the goal of controlling and preventing diseases in the community through preventive programs Cognitive goals <ul style="list-style-type: none">○ Formulating information in a way that enables students to understand and perceive○ Increasing students' knowledge of dental examination methods in terms of caries and gingivitis○ Giving instructions and advice for the correct position of the doctor during his treatment with the patient and the correct way to position the patient during examination and treatment while sitting on the dental chair The skills objectives of the course <ul style="list-style-type: none">○ Gaining experience and information that help him identify the disease and know its causes○ Identifying the dental chair and the correct sitting position for the patient and the doctor○ Methods of examining tooth decay, gingivitis, calcifications and bacterial plate that help him to be a successful dentist in dealing with patients and treating them

9. Teaching and Learning Strategies

Strategy	<ul style="list-style-type: none"> ○ Giving lectures through displays, PowerPoint and slides. ○ Preparing seminars by students under the supervision of professors.
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10. Course Structure

Week	Hou rs	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	1	Procedural steps in 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. 4-Principles of administration. 5-Preventive dentistry.	Community dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams
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	Community dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams
3	1	Introduction to epidemiology - Objectives of epidemiology. - Components of epidemiological study.	Community dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams

		<ul style="list-style-type: none"> - Essential steps in an epidemiological study. - Hypothesis. - Population at risk. - Morbidity. - Measurements of disease frequency. Epidemiological approach. - Measurement tools in epidemiology. 			
4	1	<p>Epidemiological studies</p> <p>Types of Epidemiological studies:</p> <p>1-Observational studies</p> <p>Types of observational studies</p> <ul style="list-style-type: none"> - Descriptive studies. -Analytical studies. <p>Case control studies</p> <p>Cohort studies</p> <p>Ecological studies</p>	Community dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams
5	1	<p>Experimental studies</p> <ul style="list-style-type: none"> -Intervention <p>Types of experimental studies</p>	Community dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams
6	1	<p>Epidemiology of dental caries</p> <ul style="list-style-type: none"> -Definition of dental caries -Epidemiology -Etiological factors of dental caries -Types of dental caries according to their anatomical (location) site. - Factors affecting epidemiology of dental caries 	Community dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams

7	1	<p>Epidemiology of Periodontal Disease</p> <ul style="list-style-type: none"> -Periodontal Diseases definition -Structure of the periodontal tissues -Epidemiology -Etiology of periodontal disease 	Community dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams
8	1	<p>Epidemiology of Oral Cancer</p> <ul style="list-style-type: none"> -Types of cancers -Etiology of oral cancer -Constituents of tobacco smoke -Potentially malignant lesions -Levels of prevention for oral cancer - Rehabilitation after Oral Cancer 	Community dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams
9	1	<p>Dental indices</p> <ul style="list-style-type: none"> -Index -Uses of dental index - Classification of indices 	Community dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams
10	1	<p>Indices used for assessment of dental caries</p> <ul style="list-style-type: none"> -DMF index -Principles in recording DMF index -Calculation of DMFT/DMFS 	Community dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams

		-Dental caries severity index - dmf index			
11	1	Indices used for assessment of periodontal disease -Oral Hygiene Indices: -Gingival inflammation indices - Periodontal indices	Community dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams
12	1	Dental fluorosis Indices for assessment of dental fluorosis	Community dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams
13	1	Biostatistics -Data -Types of data -Methods of Data Collection -Sampling Technique -Types of sample design	Community dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams
14	1	Data presentation -Methods of data presentation -The tabulation of data.	Community dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams
15	1	Measures of central tendency & dispersion -Measures of central tendency -Measures of dispersion.	Community dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams
16	1	Fluoridation as a public health measure -History: -Sources of Fluoride	Community dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams

		-Water fluoridation -Types of fluoride			
17	1	Fluoridation Mechanism and Effects Mechanism of action -Anti-caries effects of fluoride. Metabolism of fluoride- -Dental Fluorosis -Side effects of fluoride	Community dentistry	A theoretical lecture using power point	Short, semester, half-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	Community dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams
19	1	Environment and health -Environment -Physical environment: -Biological	Community dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams

		<p>environment:</p> <ul style="list-style-type: none"> -Psychological environment - Environmental indicators 			
20	1	<p>Effects of air pollution on health</p> <ul style="list-style-type: none"> -Prevention and control of air pollution -Effects of radiation -Noise pollution 	Community dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams
21	1	<p>School Dental Health Program</p> <ul style="list-style-type: none"> -Purpose of School Health Program -Guidelines for an ideal school dental program -School dental survey - phases in school oral health program 	Community dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams
22	1	<p>Treatment need and demand</p> <ul style="list-style-type: none"> -Need -categories of need -Demand - Factors affecting dental demands 	Community dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams
23	1	<ul style="list-style-type: none"> -Dental manpower - Manpower definition Dental health manpower planning -Steps in dental health manpower planning 	Community dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams

24	1	<p>Ethics in dentistry</p> <ul style="list-style-type: none"> -Definition of ethics -Dentistry as a profession - Ethical principles 	Community dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams
25	1	<p>Oral health care for special populations</p> <ul style="list-style-type: none"> -Elderly people: -The main oral effects of aging -Pregnant women -Special Care Dentistry - Patients with special health care needs 	Community dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams
26	1	<p>Forensic dentistry</p> <ul style="list-style-type: none"> -Introduction -Application of forensic dentistry. -Bit marks -Person identification. -Dental identification. 	Community dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams
27	1	<p>Dental auxiliary personal</p> <ul style="list-style-type: none"> -Introduction. -Dental auxiliary classification. *Non operator auxiliary. *Operatory auxiliary. -Four handed relationship 	Community dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams

28	1	<p>Primary health care</p> <ul style="list-style-type: none"> -Introduction. -Elements (components) of Primary health care. -Principles of Primary health care. -Primary dental health care. -Community dental health services. 	Community dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams
29	1	<p>Infection control</p> <ul style="list-style-type: none"> -Introduction. -Concept of disease transmission. -The acquisition means of pathogens. -Transmission of infectious diseases. -Control of infectious diseases. -Personal barrier techniques. -Instrument processing(sterilization). 	Community dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams
30	1	<p>Dental health education</p> <ul style="list-style-type: none"> -Introduction. -Aims of health education. -Objective of health education. -Objective of dental health education. 	Community dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams

		-Principle of health education. -Planning a health education programs.			
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11. Course evaluation

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| <ul style="list-style-type: none"> ○ Clinical examination ○ Daily exam scores ○ Monthly exams ○ Mid-year exams ○ Final Exam |
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12. Learning and Teaching Resources
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Required textbooks (curricular books, if any)	<ul style="list-style-type: none"> ○ Lectures summarizing the important topics.
Main references	<ul style="list-style-type: none"> ○ Preventive and Community Dentistry Public Health Dentistry Third Edition. - A Textbook of Public Health Dentistry, CM Marya, JAYPEE BROTHERS MEDICAL PUBLISHERS (P) LTD,2011

Dental Ethics:-

13.Course Name	
Dental Ethics	
14.Course Code	
15.Semester / Year	
Third year	
16.Description Preparation Date	
2025	
17.Available Attendance Forms	
Theoretical and practical	
18.Number of Credit Hours (Total) / Number of Units (Total)	
30 theoretical + 60 practical	
19.Course administrator's name (mention all, if more than one name)	
Name: ا.م.د. لمياء عبد الخالق محمد سعيد	
20.Course Objectives	
Course objective	Course objectives <ul style="list-style-type: none">○ Gives information to students about identifying and measuring oral diseases in the community to achieve the goal of controlling and preventing diseases in the community through preventive programs Cognitive goals <ul style="list-style-type: none">○ Formulating information in a way that enables students to understand and perceive○ Increasing students' knowledge of dental examination methods in terms of caries and gingivitis○ Giving instructions and advice for the correct position of the doctor during his treatment with the patient and the correct way to position the patient during examination and treatment while sitting on the dental chair The skills objectives of the course <ul style="list-style-type: none">○ Gaining experience and information that help him identify the disease and know its causes○ Identifying the dental chair and the correct sitting position for the patient and the doctor○ Methods of examining tooth decay, gingivitis, calcifications and bacterial plate that help him to be a successful dentist in dealing with patients and treating them
21.Teaching and Learning Strategies	

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	1	Professional Ethics Review What is meant by “ethics? Why are ethics important? Evolution and philosophy of ethics The terms moral and ethical, obligation and principle	Dental Ethics	A theoretical lecture using power point	Short, semester, half-year and final exams
2	1	Professional Ethics Review Dental ethics, professionalism, Human Rights and Law What is a “profession?” What is a “professionalism?” Dentistry as a Profession Dentistry: The Commercial Picture Dentistry: The Normative Picture The Content of Professional Obligations	Dental Ethics	A theoretical lecture using power point	Short, semester, half-year and final exams
3	1	Professional Ethics Review What do the “best interests” of our patients mean? What is “paternalism?” Is good risk management good ethics? What about compromising quality?	Dental Ethics	A theoretical lecture using power point	Short, semester, half-year and final exams
4	1	Professional Ethics Review What are codes of ethics? Should I care more about being legal or being ethical? Do we really have obligations to patients? Can dentistry be both a business and a profession?	Dental Ethics	A theoretical lecture using power point	Short, semester, half-year and final exams
5	1	Principal Features of Dental Ethics What is special about Dentistry? What is special about dental ethics? Who decides what is ethical? Does dental ethics change? Does dental ethics differ from one country to another?	Dental Ethics	A theoretical lecture using power point	Short, semester, half-year and final exams

6	1	<p>Principal Features of Dental Ethics</p> <p>The role of the FDI How does the FDI decide what is ethical? How do individuals decide what is ethical? How do individuals decide what is ethical?</p>	Dental Ethics	A theoretical lecture using power point	Short, semester, half-year and final exams
7-8	2	<p>Ethical Law and ethical Theories H History and basic ethical theory History of medical ethics Hammurabi's code of law ippocratic oath Basic grounding of Ethics Humanities (universal standards) Religious& nonreligious: Political& dogmatic strategies of the state Other groundings of Ethics (theories of ethics): 1- Action theory: 2- Consequentiality theory: 3- Value theory (why theory): Ethics and the law Sources of Ethical Views and Convictions</p>	Dental Ethics	A theoretical lecture using power point	Short, semester, half-year and final exams
9-10	2	<p>Fundamental Principles of dental ethics</p> <ol style="list-style-type: none"> 1- Patient autonomy 2- Non-maleficence 3- Beneficence 4- Justice 5- 5- Veracity 	Dental Ethics	A theoretical lecture using power point	Short, semester, half-year and final exams
11-12	2	<p>Duties and obligation of dentists Duties and obligation of dentists In general</p>	Dental Ethics	A theoretical lecture using power point	Short, semester, half-year and final exams
13-14	2	<p>Duties and obligation of dentists The Ideal Relationship between Dentist and Patient Duties and obligation of dentists Toward their patients THE DENTIST-PATIENT RELATIONSHIP FOUR MODELS OF THE DENTIST-PATIENT RELATIONSHIP The Guild Model The Agent Model The Commercial</p>	Dental Ethics	A theoretical lecture using power point	Short, semester, half-year and final exams

		Model The Interactive Model			
15	1	Duties and obligation of dentists Duties and obligation of dentists Toward the public and the paramedical profession The Relationship between Dentistry and the Larger Community	Dental Ethics	A theoretical lecture using power point	Short, semester, half-year and final exams
16	1	Duties and obligation of dentists Duties of dentalsurgeons and specialists in consultations	Dental Ethics	A theoretical lecture using power point	Short, semester, half-year and final exams
17	1	Duties and obligation of dentists Responsibilities of dentalsurgeons to one another Ideal Relationships between Coprofessionals	Dental Ethics	A theoretical lecture using power point	Short, semester, half-year and final exams
18-19	2	Ethical issues and challenges in dental practice Ethical Issues in Dental Practice Ethical Questions and Legal Questions Choosing to Re Ethical Published Codes of Conduct and Ethics Committees Examples of ethical issues and Challenges 1- Access to dental care 2- Abuse of prescriptions by patients 3- Advertising 4- Emergency care 5- Financial arrangements 6- Disclosure and misrepresentation 7- Child abuse	Dental Ethics	A theoretical lecture using power point	Short, semester, half-year and final exams
20	1	Ethical issues and challenges in dental practice 8- Competence and judgment 9- Confidentiality 10- Dating patients 11- Delegation of duties 12- Digital communication and social media 13- Harassment	Dental Ethics	A theoretical lecture using power point	Short, semester, half-year and final exams

		14- Consent			
21	1	Ethical issues and challenges in dental practice Patients with Compromised Capacity Treatment Decisions for Patients with Compromised Capacity The Role of Parents and Legal Guardians The Capacity for Autonomous Decision Making Dealing with Patients with Partially	Dental Ethics	A theoretical lecture using power point	Short, semester, half-year and final exams
22	1	The impact of business on dentistry - Conflict of interest - Personal interest versus patient interest - Public versus patient interest - Third-party interests - Professional versus business ethics	Dental Ethics	A theoretical lecture using power point	Short, semester, half-year and final exams
23-24	2	Ethics and dental research - Importance of Dental Research - Research in Dental Practice - Ethical Requirements - Ethics Review Committee Approval	Dental Ethics	A theoretical lecture using power point	Short, semester, half-year and final exams
25-26	2	Ethics and dental research - Scientific Merit - Social Value - Risks and Benefits - Informed Consent - Confidentiality - Conflict of Roles - Honest Reporting of Results:	Dental Ethics	A theoretical lecture using power point	Short, semester, half-year and final exams
27		The standard of care - Who determines how a dentist should behave? -A local or a global standard of care? -Transparency of care, guidelines, and protocols. -Shared decision-making, evidence informed decision-making, and evidence-guided decision-making. - Individualization and the standard of care based on	Dental Ethics	A theoretical lecture using power point	Short, semester, half-year and final exams

		a long-term goal for dental treatment.			
28	1	Ethical Decision Making and Conflicting Obligations Difficult Professional-Ethical Judgments A Model of Professional-Ethical Decision Making Conflicting Professional Obligations Conflicts Between Professional and Other Obligations Conscientious Disobedience of Professional Obligation	Dental Ethics	A theoretical lecture using power point	Short, semester, half-year and final exams
29	1	Studying a Profession's Central Values The Central Values of Dental Practice The Patient's Life and General Health The Patient's Oral Health The Patient's Autonomy The Dentist's Preferred Patterns of Practice Aesthetic Values Efficiency in the Use of Resources Ranking Dentistry's Central Values Thinking about the Case	Dental Ethics	A theoretical lecture using power point	Short, semester, half-year and final exams
30	1	The duty to treat -Does the duty to treat depend on a prior relationship between dentist and patient? -The duty to treat: Patients of record versus prior unknown patients. - Requested treatment and the duty to treat -Duty to treat and the characteristics of the patient who seeks help -Is a dentist obliged to accept a patient as a patient of record? -Terminating the relationship with a patient of record	Dental Ethics	A theoretical lecture using power point	Short, semester, half-year and final exams



The Fourth stage

Oral Surgery

Course Description

1. Course Name	
Oral Surgery	
2. Course Code	
422OS	
3. Semester / Year	
Fourth year	
4. Description Preparation Date	
2025	
5. Available Attendance Forms	
Theoretical and practical	
6. Number of Credit Hours (Total) / Number of Units (Total)	
30 theoretical + 120 practical	
7. Course administrator's name (mention all, if more than one name)	
Name: م.د. مرتضى محمد باقر	
8. Course Objectives	
Course objective	Course objectives <ul style="list-style-type: none">○ Preparing the student at a high level of science with regard to oral surgery and learning about the dental management of patients with chronic and infectious diseases, in addition to minor surgical interventions for the mouth, infections, and oral and maxillofacial infections. Cognitive objectives <ul style="list-style-type: none">○ Acquire basic knowledge of oral surgery.○ Dental management of patients with chronic and infectious diseases.○ Basic knowledge of minimally invasive surgical interventions.○ Dealing with oral and maxillofacial infections skills objectives of the course <ul style="list-style-type: none">○ Knowledge of the basics of oral diagnosis.○ Dealing with infectious and chronic diseases.○ Tooth extraction training.
9. Teaching and Learning Strategies	
Strategy	<ul style="list-style-type: none">○ Giving lectures through displays, PowerPoint and slides.○ Dental extraction clinics.○ Preparing seminars by students under the supervision of professors.

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	1	Cardiovascular diseases	Oral Surgery	A theoretical lecture using power point	Short, semester, half-year and final exams
2	1	<input type="checkbox"/> Cardiac arrhythmia <input type="checkbox"/> Dental management <input type="checkbox"/> Infective endocarditis <input type="checkbox"/> Dental management <input type="checkbox"/> Rheumatic fever and rheumatic heart Disease <input type="checkbox"/> Dental management <input type="checkbox"/> Congenital heart disease <input type="checkbox"/> Dental management <input type="checkbox"/> Oral manifestations	Oral Surgery	A theoretical lecture using power point	Short, semester, half-year and final exams
3	1	Bleeding disorders	Oral Surgery	A theoretical lecture using power point	Short, semester, half-year and final exams
4	1	Endocrinology	Oral Surgery	A theoretical lecture using power point	Short, semester, half-year and final exams
5	1	Pulmonary diseases	Oral Surgery	A theoretical lecture using power point	Short, semester, half-year and final exams
6	1	Liver Diseases	Oral Surgery	A theoretical lecture using power point	Short, semester, half-year and final exams
7	1	Chronic kidney disease and dialysis	Oral Surgery	A theoretical lecture using power point	Short, semester, half-year and final exams

8	1	Neurologic disorders	Oral Surgery	A theoretical lecture using power point	Short, semester, half-year and final exams
9	1	Pregnancy	Oral Surgery	A theoretical lecture using power point	Short, semester, half-year and final exams
10	1	AIDS and HIV infection	Oral Surgery	A theoretical lecture using power point	Short, semester, half-year and final exams
11	1	Rheumatologic and connective tissue disorders	Oral Surgery	A theoretical lecture using power point	Short, semester, half-year and final exams
12	1	Allergy	Oral Surgery	A theoretical lecture using power point	Short, semester, half-year and final exams
13	1	Patients on radiotherapy and chemotherapy	Oral Surgery	A theoretical lecture using power point	Short, semester, half-year and final exams
14	1	Odontogenic infections and fascial space infections	Oral Surgery	A theoretical lecture using power point	Short, semester, half-year and final exams
15	1	<input type="checkbox"/> Fascial space infections <input type="checkbox"/> Infection of spaces in relation to the lower jaw <input type="checkbox"/> Infections of spaces in relation to the upper jaw <input type="checkbox"/> Cavernous sinus thrombosis	Oral Surgery	A theoretical lecture using power point	Short, semester, half-year and final exams
16	1	Principles of treatment of odontogenic infections <input type="checkbox"/> Principles for the use of appropriate antibiotics <input type="checkbox"/> Sinus formation	Oral Surgery	A theoretical lecture using power point	Short, semester, half-year and final exams

		<input type="checkbox"/> Necrotizing fasciitis			
17	1	<ul style="list-style-type: none"> Principles of Flaps, suturing and management of difficult extraction <input type="checkbox"/> Flaps in oral cavity <ul style="list-style-type: none"> <input type="checkbox"/> Incision <input type="checkbox"/> Flap design <input type="checkbox"/> Types of Mucoperiosteal Flaps <input type="checkbox"/> Flap reflection <input type="checkbox"/> Suturing <input type="checkbox"/> Suture Materials <input type="checkbox"/> Needles <input type="checkbox"/> Needle Holder <input type="checkbox"/> Tissue Forceps 	Oral Surgery	A theoretical lecture using power point	Short, semester, half-year and final exams
18	1	<ul style="list-style-type: none"> <input type="checkbox"/> Management of difficult extraction <input type="checkbox"/> The main indications for surgical extraction of teeth are <ul style="list-style-type: none"> <input type="checkbox"/> Steps of surgical extraction <input type="checkbox"/> Indications for leaving root fragments <input type="checkbox"/> Multiple Extractions <ul style="list-style-type: none"> <input type="checkbox"/> Extraction sequencing 	Oral Surgery	A theoretical lecture using power point	Short, semester, half-year and final exams
19	1	Principles of management of impacted teeth	Oral Surgery	A theoretical lecture using power point	Short, semester, half-year and final exams
20	1	<ul style="list-style-type: none"> <input type="checkbox"/> Impacted upper third molars <input type="checkbox"/> Surgical extraction <ul style="list-style-type: none"> <input type="checkbox"/> Complications <input type="checkbox"/> Impacted maxillary canine <ul style="list-style-type: none"> <input type="checkbox"/> Classification <input type="checkbox"/> Clinical examination <ul style="list-style-type: none"> <input type="checkbox"/> Radiographic examination and assessment <input type="checkbox"/> Options of treatment <ul style="list-style-type: none"> <input type="checkbox"/> <input type="checkbox"/> 	Oral Surgery	A theoretical lecture using power point	Short, semester, half-year and final exams

21	1	<input type="checkbox"/> Impacted mandibular canines <input type="checkbox"/> Impacted lower premolars <input type="checkbox"/> Impacted maxillary premolars <input type="checkbox"/> Impacted first and second molars <input type="checkbox"/> Buried deciduous molars <input type="checkbox"/> Supernumerary teeth <input type="checkbox"/> Dilacerated incisors	Oral Surgery	A theoretical lecture using power point	Short, semester, half-year and final exams
22	1	Surgical aids to orthodontics	Oral Surgery	A theoretical lecture using power point	Short, semester, half-year and final exams
23	1	Principles of endodontic surgery	Oral Surgery	A theoretical lecture using power point	Short, semester, half-year and final exams
24	1	<input type="checkbox"/> Surgical procedure <input type="checkbox"/> To perform biopsy or not Determination of success <input type="checkbox"/> Microsurgical technique	Oral Surgery	A theoretical lecture using power point	Short, semester, half-year and final exams
25	1	Osteomyelitis and osteonecrosis of the jaw <input type="checkbox"/> Osteomyelitis <input type="checkbox"/> Definition. <input type="checkbox"/> Classification <input type="checkbox"/> Etiology and pathogenesis <input type="checkbox"/> Clinical presentation <input type="checkbox"/> Diagnostic imaging <input type="checkbox"/> Microbiology <input type="checkbox"/> Treatment: surgical, antimicrobial and hyperbaric oxygen <input type="checkbox"/> Other types of osteomyelitis: infantile, focal and diffuse sclerosing and Garre's sclerosing osteomyelitis	Oral Surgery	A theoretical lecture using power point	Short, semester, half-year and final exams

26	1	<p>Radiation induced osteomyelitis and osteoradionecrosis</p> <ul style="list-style-type: none"> <input type="checkbox"/> Definition <input type="checkbox"/> Etiology <input type="checkbox"/> Stages <input type="checkbox"/> Treatment <input type="checkbox"/> Prevention <p><input type="checkbox"/> Medication related osteonecrosis of the jaw</p> <ul style="list-style-type: none"> <input type="checkbox"/> Definition <input type="checkbox"/> Pathophysiology <p><input type="checkbox"/> Clinical presentation and staging</p> <ul style="list-style-type: none"> <input type="checkbox"/> Imaging <input type="checkbox"/> Treatment <input type="checkbox"/> Prevention 	Oral Surgery	A theoretical lecture using power point	Short, semester, half-year and final exams
27	1	Dental Implants: Basic Concepts and Techniques	Oral Surgery	A theoretical lecture using power point	Short, semester, half-year and final exams
28	1	<ul style="list-style-type: none"> <input type="checkbox"/> Surgical Treatment Planning Considerations <input type="checkbox"/> Final Treatment Planning <input type="checkbox"/> Basic Implant Surgical Procedures <input type="checkbox"/> One-Stage versus Two-Stage Implant Placement Surgery <input type="checkbox"/> Implant Stability <input type="checkbox"/> Complications <input type="checkbox"/> Implant Components <input type="checkbox"/> Defining implant outcomes 	Oral Surgery	A theoretical lecture using power point	Short, semester, half-year and final exams
29	1	Biopsy in oral and maxillofacial surgery	Oral Surgery	A theoretical lecture using power point	Short, semester, half-year and final exams
30	1	Diagnostic imaging in oral and maxillofacial surgery	Oral Surgery	A theoretical lecture using power point	Short, semester, half-year and final exams

11. Course evaluation

- Daily exam scores
- Semester Exams
- Weekly reports of practical experiences
- Daily attendance and participation in scientific questions/activity

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	<ul style="list-style-type: none">○ Lectures summarizing the important topics.
Main references	<ul style="list-style-type: none">○ Contemporary oral and maxillofacial surgery 7th edition 2019 (Elsevier).○ Hand book of local anesthesia 7th edition Stanely F. Malamed , Elsevier.2019

General Surgery

Course Description

1. Course Name	
General Surgery	
2. Course Code	
424GS	
3. Semester / Year	
Fourth year	
4. Description Preparation Date	
2025	
5. Available Attendance Forms	
Theoretical	
6. Number of Credit Hours (Total) / Number of Units (Total)	
30 theoretical	
7. Course administrator's name (mention all, if more than one name)	
Name: م.د. عبد الحسن مهدي صالح	
8. Course Objectives	
Course objective	Course objectives <ul style="list-style-type: none">○ Preparing the student at a high level of science with regard to general surgery and identifying general surgical cases, methods of their diagnosis and treatment, and their relationship to his exact specialization as a dentist. Cognitive goals <ul style="list-style-type: none">○ Gain knowledge of general surgical cases.○ Methods of diagnosis and treatment.○ Relationship to his specialty as a dentist. Skill objectives for the course <ul style="list-style-type: none">○ Special diagnostic methods.○ Knowing the types of laboratory and radiological tests related to surgical cases
9. Teaching and Learning Strategies	
Strategy	<ul style="list-style-type: none">○ Giving scientific and theoretical lectures through display screens and PowerPoint.○ Clinical tours in the halls of general surgery.

10.Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2	Metabolic response to injury BASIC CONCEPTS IN HOMEOSTASIS MEDIATORS OF THE METABOLIC RESPONSE TO INJURY Physiological response to injury ((THE 'EBB AND FLOW' MODEL((Insulin resistance AVOIDABLE FACTORS THAT COMPOUND THE RESPONSE TO INJURY Systemic inflammation and tissue response	General Surgery	A theoretical lecture using power point	Short, semester, half-year and final exams
2	2	Wound healing Introduction Classification of wound Healing Normal sequence of wound Healing Factors affecting healing (local & systemic) Complications of wound healing	General Surgery	A theoretical lecture using power point	Short, semester, half-year and final exams
3	2	Surgical wound and infections	General Surgery	A theoretical lecture using power point	Short, semester, half-year and final exams
4	2	Hemorrhage Introduction Pathophysiology Definitions (Revealed and concealed hemorrhage, Primary, reactionary and secondary hemorrhage Surgical and	General Surgery	A theoretical lecture using power point	Short, semester, half-year and final exams

		nonsurgical hemorrhage(Degree and classification Management (Identify hemorrhage, Immediate resuscitative maneuvers, Identify the site of hemorrhage, Hemorrhage control(Damage control surgery			
5	2	Shock Introduction Pathophysiology Ischemia–reperfusion syndrome Classification of shock Consequences Unresuscitatable shock Multiple organ failure RESUSCITATION Fluid therapy	General Surgery	A theoretical lecture using power point	Short, semester, half-year and final exams
6	2	Blood transfusion Introduction Blood and blood products Indications for blood transfusion Blood groups and cross-matching Transfusion reactions Cross-matching Complications of blood transfusion Management of coagulopathy	General Surgery	A theoretical lecture using power point	Short, semester, half-year and final exams
7	2	Parenteral feeding Introduction Route of delivery Peripheral central venous access Complications of parenteral nutrition Refeeding syndrome	General Surgery	A theoretical lecture using power point	Short, semester, half-year and final exams
8	2	Fluid balance Abnormalities of body water Fluid overload and oedema	General Surgery	A theoretical lecture using power point	Short, semester, half-year and final exams

		Abnormalities of electrolytes Fluid replacement Acid-base balance Abnormalities of acid-base balance			
9	2	Electrolytes balance Introduction Principles of electrolyte balance Normal homeostasis Barriers between compartments, osmolality and electrolyte concentrations Homeostatic mechanisms	General Surgery	A theoretical lecture using power point	Short, semester, half-year and final exams
10	2	Head injury Introduction 2 Cerebral blood flow Initial evaluation and management Mechanism Neurological progression Examination: primary survey Glasgow Coma Score secondary survey CLASSIFICATION OF SEVERITY TYPE OF HEAD INJURY	General Surgery	A theoretical lecture using power point	Short, semester, half-year and final exams
11	2	Preoperative preparation (History Taking) Introduction to the Patient History of the presenting Complain	General Surgery	A theoretical lecture using power point	Short, semester, half-year and final exams
12	2	Anesthesia & Pain HISTORY GENERAL ANAESTHESIA Management of airway during Anesthesia Complications of intubation Ventilation during	General Surgery	A theoretical lecture using power point	Short, semester, half-year and final exams

		<p>anesthesia Monitoring and care during anesthesia Chronic pain management Chronic pain control in benign disease Pain control in malignant disease</p>			
13	2	<p>Perioperative care Introduction Factors that predispose patients to a high risk of morbidity and mortality Patient factors Surgical factors Optimize medical management of coexisting diseases and intraoperative considerations Ischemic heart disease Respiratory failure SPECIFIC Strategies</p>	General Surgery	A theoretical lecture using power point	Short, semester, half-year and final exams
14	2	<p>Postoperative care SYSTEM-SPECIFIC POSTOPERATIVE COMPLICATIONS Respiratory complications Cardiovascular complications Renal and urinary complications COMPLICATIONS RELATED TO SPECIFIC SURGICAL SPECIALTIES Paralytic ileus Compartment syndrome Neck surgery Neurosurgery</p>	General Surgery	A theoretical lecture using power point	Short, semester, half-year and final exams
15	2	<p>GENERAL POSTOPERATIVE PROBLEMS AND MANAGEMENT Nausea and vomiting Bleeding</p>	General Surgery	A theoretical lecture using power point	Short, semester, half-year and final exams

		Deep vein thrombosis Hypothermia and shivering Fever Pressure sores Drains			
16	2	Day case surgery Definition SELECTION CRITERIA PREOPERATIVE ASSESSMENT SURGERY DISCHARGE	General Surgery	A theoretical lecture using power point	Short, semester, half-year and final exams
17	2	Surgical ethics and law INTRODUCTION INFORMED CONSENT MATTERS OF LIFE AND DEATH CONFIDENTIALITY RESEARCH	General Surgery	A theoretical lecture using power point	Short, semester, half-year and final exams
18	2	Patient safety INTRODUCTION THE PREVALENCE OF ADVERSE HEALTHCARE EVENTS COMMON CAUSES OF ADVERSE HEALTHCARE EVENTS PATIENT SAFETY AND THE SURGEON CARING FOR THE SECOND VICTIM	General Surgery	A theoretical lecture using power point	Short, semester, half-year and final exams

11. Course evaluation

- Daily exam grades
- Semester exams
- Weekly reports of practical experiments
- Daily attendance and participation in scientific questions/activity

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)

- Lectures summarizes the important topics.

Main references	<ul style="list-style-type: none">○ Baily and Love's short practice of surgery 27th edition 2018
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General Medicine

Course Description

1. Course Name	
General Medicine	
2. Course Code	
423GM	
3. Semester / Year	
Fourth year	
4. Description Preparation Date	
2025	
5. Available Attendance Forms	
Theoretical	
6. Number of Credit Hours (Total) / Number of Units (Total)	
30 theoretical	
7. Course administrator's name (mention all, if more than one name)	
Name: ا.د. جاسم محمد احمد م.د. عبد الحسن مهدي صالح	
8. Course Objectives	
Course objective	Course objectives <ul style="list-style-type: none">○ Preparing the student at a high level of science with regard to general medicine and identifying diseases, methods of diagnosing and treating them, and their relationship to his exact specialization as a dentist. Cognitive goals <ul style="list-style-type: none">○ Acquisition of knowledge about human diseases.○ Diagnostic and treatment methods.○ Relationship of diseases to his specialty as a dentist The skills objectives of the course <ul style="list-style-type: none">○ Special diagnostic methods.○ Knowing the types of laboratory tests related to body diseases.
9. Teaching and Learning Strategies	
Strategy	<ul style="list-style-type: none">○ Giving scientific and theoretical lectures through display screens and PowerPoint.○ Clinical tours in the internal medicine halls.

10.Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	1	Diabetes Mellitus 1	General Medicine	A theoretical lecture using power point	Short, semester, half-year and final exams
2	1	Diabetes Mellitus2	General Medicine	A theoretical lecture using power point	Short, semester, half-year and final exams
3	1	White Blood Cells Disorders	General Medicine	A theoretical lecture using power point	Short, semester, half-year and final exams
4	1	White Blood Cells Disorders	General Medicine	A theoretical lecture using power point	Short, semester, half-year and final exams
5	1	Hemostasis and Bleeding Disorders 1	General Medicine	A theoretical lecture using power point	Short, semester, half-year and final exams
6	1	Hemostasis and Bleeding Disorders 2	General Medicine	A theoretical lecture using power point	Short, semester, half-year and final exams
7	1	Adrenal Gland Disorders 1	General Medicine	A theoretical lecture using power point	Short, semester, half-year and final exams
8	1	Adrenal Gland Disorders 2	General Medicine	A theoretical lecture using power point	Short, semester, half-year and final exams
9	1	Gastrointestinal Diseases 1	General Medicine	A theoretical lecture using power point	Short, semester, half-year and final exams

10	1	Peptic Ulcer Disease 1	General Medicine	A theoretical lecture using power point	Short, semester, half-year and final exams
11	1	Peptic Ulcer Disease 2	General Medicine	A theoretical lecture using power point	Short, semester, half-year and final exams
12	1	Intestine	General Medicine	A theoretical lecture using power point	Short, semester, half-year and final exams
13	1	Inflammatory Bowel Disease 1	General Medicine	A theoretical lecture using power point	Short, semester, half-year and final exams
14	1	Inflammatory Bowel Disease 2	General Medicine	A theoretical lecture using power point	Short, semester, half-year and final exams
15	1	Pseudomembranous Colitis 1	General Medicine	A theoretical lecture using power point	Short, semester, half-year and final exams
16	1	Hypertension 1	General Medicine	A theoretical lecture using power point	Short, semester, half-year and final exams
17	1	Infective Endocarditis	General Medicine	A theoretical lecture using power point	Short, semester, half-year and final exams
18	1	Ischemic Heart Disease	General Medicine	A theoretical lecture using power point	Short, semester, half-year and final exams
19	1	Heart Failure	General Medicine	A theoretical lecture using power point	Short, semester, half-year and final exams

20	1	Cardiac Arrhythmias	General Medicine	A theoretical lecture using power point	Short, semester, half-year and final exams
21	1	Thyroid Diseases	General Medicine	A theoretical lecture using power point	Short, semester, half-year and final exams
22	1	Kidney Diseases	General Medicine	A theoretical lecture using power point	Short, semester, half-year and final exams
23	1	Immunologic Diseases	General Medicine	A theoretical lecture using power point	Short, semester, half-year and final exams
24	1	Liver Diseases	General Medicine	A theoretical lecture using power point	Short, semester, half-year and final exams
25	1	Pulmonary Diseases	General Medicine	A theoretical lecture using power point	Short, semester, half-year and final exams
26	1	Red Blood Cells Disorders	General Medicine	A theoretical lecture using power point	Short, semester, half-year and final exams
27	1	Drug and Alcohol Abuse	General Medicine	A theoretical lecture using power point	Short, semester, half-year and final exams
28	1	Psychiatric Disorders 1	General Medicine	A theoretical lecture using power point	Short, semester, half-year and final exams
29	1	Anxiety and Eating Disorders	General Medicine	A theoretical lecture using power point	Short, semester, half-year and final exams

30	1	Neurologic Disorders	General Medicine	A theoretical lecture using power point	Short, semester, half-year and final exams
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11. Course evaluation

- Daily exam scores
- Semester Exams
- Weekly reports of practical experiences
- Daily attendance and participation in scientific questions / activity

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	<ul style="list-style-type: none"> ○ Lectures summarizing the important topics.
Main references	<ul style="list-style-type: none"> ○ Dental Management of the Medically Compromised Patient, Ninth Edition, 2018 ○ Essentials of Medicine for Dental Students

Oral Pathology

Course Description

1. Course Name	
Oral pathology	
2. Course Code	
425OP	
3. Semester / Year	
Fourth year	
4. Description Preparation Date	
2025	
5. Available Attendance Forms	
Theoretical and practical	
6. Number of Credit Hours (Total) / Number of Units (Total)	
60 theoretical + 90 practical	
7. Course administrator's name (mention all, if more than one name)	
Name: م.د. عماد حسان محمود	
8. Course Objectives	
Course objective	<p>Course objectives</p> <ul style="list-style-type: none"> ○ Rehabilitation of dentists who are able to know the causes of various diseases that affect the mouth and study the diagnosis and methods of dyes to know the distinction between diseases through laboratory diagnosis. <p>Cognitive goals</p> <ul style="list-style-type: none"> ○ The ability to distinguish between different oral diseases ○ How to use dyes ○ Learn to cut tissue <p>Curriculum-Specific Skills Objectives</p> <ul style="list-style-type: none"> ○ The ability to distinguish between different oral diseases ○ How to use dyes ○ Learn to cut tissue
9. Teaching and Learning Strategies	
Strategy	<ul style="list-style-type: none"> ○ Giving scientific and theoretical lectures through display screens and PowerPoint. ○ Seminars

10.Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2	Biopsy in oral pathology	Oral pathology	A theoretical lecture using power point	Short, semester, half-year and final exams
2	2	Healing in oral pathology	Oral pathology	A theoretical lecture using power point	Short, semester, half-year and final exams
3	2	Dental caries	Oral pathology	A theoretical lecture using power point	Short, semester, half-year and final exams
4	2	Pulp pathology	Oral pathology	A theoretical lecture using power point	Short, semester, half-year and final exams
5	2	Periapical pathology	Oral pathology	A theoretical lecture using power point	Short, semester, half-year and final exams
6	2	Osteomyelitis	Oral pathology	A theoretical lecture using power point	Short, semester, half-year and final exams
7	2	Developmental disorder of teeth	Oral pathology	A theoretical lecture using power point	Short, semester, half-year and final exams
8	2	Developmental disorder of soft and hard tissue	Oral pathology	A theoretical lecture using power point	Short, semester, half-year and final exams
9	2	Non odontogenic cysts	Oral pathology	A theoretical lecture using power point	Short, semester, half-year and final exams

10	2	Odontogenic cysts	Oral pathology	A theoretical lecture using power point	Short, semester, half-year and final exams
11	2	Odontogenic tumors 1	Oral pathology	A theoretical lecture using power point	Short, semester, half-year and final exams
12	2	Odontogenic tumors 2	Oral pathology	A theoretical lecture using power point	Short, semester, half-year and final exams
13	2	Benign epithelial lesions, leukoplakia	Oral pathology	A theoretical lecture using power point	Short, semester, half-year and final exams
14	2	Epithelial Hyperplasia, atrophy and dysplasia	Oral pathology	A theoretical lecture using power point	Short, semester, half-year and final exams
15	2	Squamous cell carcinoma and other malignant epithelial neoplasms	Oral pathology	A theoretical lecture using power point	Short, semester, half-year and final exams
16	2	Fibro osseous lesions, metabolic and genetic conditions	Oral pathology	A theoretical lecture using power point	Short, semester, half-year and final exams
17	2	Giant cell lesions	Oral pathology	A theoretical lecture using power point	Short, semester, half-year and final exams
18	2	Benign tumor of the bone	Oral pathology	A theoretical lecture using power point	Short, semester, half-year and final exams
19	2	Malignant tumor of the bone	Oral pathology	A theoretical lecture using power point	Short, semester, half-year and final exams

20	2	Viral infection	Oral pathology	A theoretical lecture using power point	Short, semester, half-year and final exams
21	2	Bacterial and fungal infection	Oral pathology	A theoretical lecture using power point	Short, semester, half-year and final exams
22	2	Immune mediated disorder 1	Oral pathology	A theoretical lecture using power point	Short, semester, half-year and final exams
23	2	Immune mediated disorder 2	Oral pathology	A theoretical lecture using power point	Short, semester, half-year and final exams
24	2	Connective tissue lesions	Oral pathology	A theoretical lecture using power point	Short, semester, half-year and final exams
25	2	Connective tissue lesions	Oral pathology	A theoretical lecture using power point	Short, semester, half-year and final exams
26	2	Salivary gland disorders	Oral pathology	A theoretical lecture using power point	Short, semester, half-year and final exams
27	2	Salivary gland neoplasms	Oral pathology	A theoretical lecture using power point	Short, semester, half-year and final exams
28	2	Physical and chemical injurie	Oral pathology	A theoretical lecture using power point	Short, semester, half-year and final exams
29	2	Hematopoietic tumors	Oral pathology	A theoretical lecture using power point	Short, semester, half-year and final exams

30	2	Forensic dentistry	Oral pathology	A theoretical lecture using power point	Short, semester, half-year and final exams
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11. Course evaluation

- Daily exam scores
- Semester Exams
- Weekly reports of practical experiences
- Daily attendance and participation in scientific questions / activity

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)

- Lectures summarizing the important topics.

Main references

- -Oral and maxillofacial pathology. Brad Neville, Douglas
- Damm Carl Allen and Jerry Bouquot. 4th edition. 2016, Elsevier.
- Robinson, Max, Keith Hunter, Michael Pemberton, and Philip Sloan. Soames' & Southam's Oral Pathology. 2018, Oxford University Press. Sloan. Soames' & Southam's Oral Pathology. 2018, Oxford University Press.

Orthodontics

Course Description

1. Course Name	
Orthodontics	
2. Course Code	
4260D	
3. Semester / Year	
Fourth year	
4. Description Preparation Date	
2025	
5. Available Attendance Forms	
Theoretical and practical	
6. Number of Credit Hours (Total) / Number of Units (Total)	
30 theoretical + 120 practical	
7. Course administrator's name (mention all, if more than one name)	
Name: م.م. سعد عبد العالي عباس	
8. Course Objectives	
Course objective	Course objectives <ul style="list-style-type: none">○ Preparing the student at a high level of science with regard to orthodontics and identifying the types of pathological conditions and malpositions, the causes that lead to them, and the types of orthodontic devices. Cognitive goals <ul style="list-style-type: none">○ Gaining knowledge about the causes of bad dishes○ Diagnostic and treatment methods○ Identify the types of orthodontic devices Curriculum-Specific Skills Objectives <ul style="list-style-type: none">○ Learning how to make a mobile orthodontic device with its different parts.
9. Teaching and Learning Strategies	
Strategy	<ul style="list-style-type: none">○ Giving scientific and theoretical lectures through displays and PowerPoint and practical experiments in the educational laboratories of the college.

10.Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	1	Introduction to orthodontics	Orthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
2	1	Six keys of normal - occlusion - Aims of orthodontic treatment	Orthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
3	1	Important - orthodontic definitions 1109 - Classification of malocclusion	Orthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
4	1	Growth and development	Orthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
5	1	Theories of bone growth - Definitions of growth site, growth center, displacement, and drift	Orthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
6	1	Growth curve and maximum growth spurt - Prenatal and postnatal growth and development of hard tissues	Orthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
7	1	Prenatal and postnatal growth and development of soft tissues - Developmental	Orthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams

		anomalies			
8	1	Jaw rotation - Compensation and adaptation	Orthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
9	1	Deciduous and permanent dentition	Orthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
10	1	b-Tooth eruption (stages and theories), Sequences and timing of eruption	Orthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
11	1	Development of occlusion	Orthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
12	1	c. Early mixed dentition stage - eruption of first molars and incisors d. Late mixed dentition stage - eruption of canines and premolars e. Permanent dentition - eruption second and third molars.	Orthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
13	1	Etiology of malocclusion	Orthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
14	1	Classification of - etiological factors a. General factors i. Skeletal factors	Orthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams

15	1	ii. Soft tissue factors	Orthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
16	1	ii. Soft tissue factors	Orthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
17	1	b. Local factors (definitions without treatment)	Orthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
18	1	Tooth movement a. Tissue changes associated with tooth :movement i. Histology of periodontium ii. Theories of tooth movement b. Accelerated tooth movement.	Orthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
19	1	c. Biomechanics i. Force (application, type, magnitude, duration and direction) ii. Center of resistance and rotation, moment of force and moment of .couple iii. Types of tooth movement iv. Rate of tooth movement and factors affecting it	Orthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams

20	1	d. iatrogenic effect of tooth movement (pain, mobility, pulp effect, root resorption, white spot lesions.)	Orthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
21	1	Biomechanics	Orthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
22	1	Anchorage (definition, indications, types)	Orthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
23	1	Orthodontic appliances :a. Overview i. passive orthodontic appliances (habit breaker, retainer and space maintainer) ii. active orthodontic appliances (removable, fixed, orthopedic and myofunctional, and combination) iii. Other active appliances: space regainer, Invisalign	Orthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
24	1	b. Removable Orthodontic :Appliance i. Properties of various components (SS wire, acrylic)	Orthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams

		<p>:ii. Components active components (1 (springs, screws and (elastics retentive (2 (components (clasps acrylic base plate (3 and bite planes (4anchorage</p>			
25	1	<p>iii. Design of a removable orthodontic appliance iv. Construction of a removable orthodontic appliance v. Soldering and welding vi. Post-insertion instructions and guidelines</p>	Orthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
26	1	<p>c. Fixed orthodontic :appliance Types, components, advantages, limitation, biomechanics, .banding vs Bonding</p>	Orthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
27	1	<p>d. Orthopedic and Myofunctional :appliance Types, components, advantages, limitation, mode of action</p>	Orthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
28	1	<p>continue Orthopedic and Myofunctional</p>	Orthodontics	A theoretical lecture using power point	Short, semester, half-year and

		:appliance Types, components, advantages, limitation, mode of action			final exams
29	1	f. Retention and retainers Retention (definition, reason, time)	Orthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
30	1	Retainers (Hawley, clear overlay, positioners, permanent fixation, precision)	Orthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams

11. Course evaluation

- Daily exam scores
- Semester Exams
- Weekly reports of practical experiences
- Daily attendance and participation in scientific questions / activity

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	<ul style="list-style-type: none"> ○ Lectures summarizing the important topics.
Main references	<ul style="list-style-type: none"> ○ An Introduction to Orthodontics 5th Edition Simon J. Littlewood and Laura Mitchell 2019. ○ Orthodontics: Principles and Practice: Principles and Practice 2nd Edition 2017

Prosthodontics

Course Description

1. Course Name	
Prosthodontics	
2. Course Code	
410PR	
3. Semester / Year	
Fourth year	
4. Description Preparation Date	
2025	
5. Available Attendance Forms	
Theoretical and practical	
6. Number of Credit Hours (Total) / Number of Units (Total)	
30 theoretical + 90 practical	
7. Course administrator's name (mention all, if more than one name)	
Name: ا.م.د. ايناس طه ابراهيم	
8. Course Objectives	
Course objective	Course objectives <ul style="list-style-type: none">○ Training the student on how to examine patients and diagnose the patient's pathological condition by modern and currently approved diagnostic methods, then prepare a treatment plan and then start treatment in a correct scientific manner○ Using modern materials and methods in the manufacture of the complete set by giving theoretical lectures with practice in clinics. Cognitive objectives <ul style="list-style-type: none">○ Giving instructions and following up the micro-making process○ Training the student on how to examine and diagnose disease states○ Giving important information and treatment steps The skills objectives of the course <ul style="list-style-type: none">○ Describe the tools used to treat patients who need partial dentures○ <input type="checkbox"/> Follow-up of the student during work
9. Teaching and Learning Strategies	
Strategy	<ul style="list-style-type: none">○ Giving practical and theoretical lectures through display screens and PowerPoint○ Live explanation and dealing with all kinds of materials mentioned within the curriculum in front of the students after dividing them into groups on the

	<p>number of days of the week and explaining all the steps with a detailed explanation</p> <ul style="list-style-type: none"> ○ Summer Internship ○ Group educational workshops ○ Seminars
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10.Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	1	Anatomy and physiology as related to dental prosthesis (osteology)	Prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
2	1	Anatomy and physiology as related to dental prosthesis(Myology)	Prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
3	1	Diagnosis and treatment plan for RPD	Prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
4	1	To be continued Diagnosis and Treatment	Prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
5	1	Preparation of the mouth to receive an RPD	Prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
6	1	Preparation of the mouth to receive an RPD (Continued)	Prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
7	1	Classification of impression Technique	Prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
8	1	Classification of impression technique (To be continue	Prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams

9	1	Designing Support	Prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
10	1	Fitting the removable partial denture framework	Prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
11	1	Occlusal Relationship for Removable Partial Denture	Prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
12	1	Jaw relation in RPD	Prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
13	1	Trial RPD	Prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
14	1	Initial placement and adjustment of RPD	Prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
15	1	Pre- prosthetic surgery	Prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
16	1	Pre-prosthetic Surgical Considerations (Continued)	Prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
17	1	Diagnosis and treatment plan CD	Prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
18	1	To be continued diagnosis and treatment plan for CD	Prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams

19	1	Impression in CD	Prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
20	1	TMJ and mandibular movement	Prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
21	1	Digital RPD	Prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
22	1	Vertical jaw relation	Prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
23	1	Horizontal jaw relation (Centric occlusion)	Prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
24	1	Try in stage in CD	Prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
25	1	Insertion of CD	Prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
26	1	Adjustments of CD	Prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
27	1	Post insertion complications in CD	Prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
28	1	relining and rebasing of CD	Prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams

29	1	Repair of fractured RPD	Prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
30	1	Esthetic denture materials	Prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams

11. Course evaluation

- Daily exam scores
- Semester Exams
- Weekly reports of practical experiences
- Daily attendance and participation in scientific questions / activity

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	<ul style="list-style-type: none"> ○ Lectures summarizing the important topics.
Main references	<ul style="list-style-type: none"> ○ Zarb, Hobkirk, Eckert, Jacob et al. Prosthodontic treatment for edentulous patients: Complete dentures and implant-supported Mosby, prostheses.13th edition 2013 Elsevier Inc. ○ McCracken's removable partial prosthodontics, 13th edition 2016 by Elsevier, Inc

Pediatric Dentistry

Course Description

1. Course Name	
Pediatric Dentistry	
2. Course Code	
427PE	
3. Semester / Year	
Fourth year	
4. Description Preparation Date	
2025	
5. Available Attendance Forms	
Theoretical and practical	
6. Number of Credit Hours (Total) / Number of Units (Total)	
30 theoretical + 60 practical	
7. Course administrator's name (mention all, if more than one name)	
Name: م.م مظفر فاضل جدوع	
8. Course Objectives	
Course objective	Course objectives <ul style="list-style-type: none">○ Understand and assimilate the theoretical and practical methods of treating all cases of children's teeth and identify the scientific methods and methods supported by the means of illustration to know how to identify the deciduous and permanent teeth and the problems related to them. Cognitive goals <ul style="list-style-type: none">○ Formulating information in a way that enables students to understand○ Increasing knowledge regarding the diagnosis and treatment of various cases of dental diseases in children○ Oral and dental care and awareness of the importance of preserving milk teeth until the eruption of permanent teeth in children The skills objectives of the course <ul style="list-style-type: none">○ Training students on pediatric dental conditions○ Giving instructions on how to deal and interact with children○ Acquisition of skills for diagnosing primary and permanent teeth in children
9. Teaching and Learning Strategies	

Strategy	<ul style="list-style-type: none"> ○ Giving practical and theoretical lectures through display screens and PowerPoint ○ Summer Internship ○ Group educational workshops ○ Seminars
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10.Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	1	Eruption of teeth, normal eruption process	Pediatric Dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams
2	1	Teething and difficult eruption	Pediatric Dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams
3	1	Eruption hematoma, sequestrum, ectopic eruption.	Pediatric Dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams
4	1	Epstein pearls, Bohn nodules, Dental lamina cysts, Shedding of the primary teeth, Mechanism of resorption and shedding	Pediatric Dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams
5	1	Systemic (disease) Factors which cause late eruption Deciduous Dentition Period, Ugly Duckling Stage	Pediatric Dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams
6	1	Morphology of primary teeth	Pediatric Dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams
7	1	Normal morphology of all primary teeth and their clinical consideration	Pediatric Dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams

8	1	Morphological differences between primary and permanent teeth	Pediatric Dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams
9	1	Functions of primary teeth	Pediatric Dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams
10	1	Dental caries; Definition and Classification	Pediatric Dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams
11	1	Rampant dental caries, Early childhood caries	Pediatric Dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams
12	1	Restorative dentistry for children Isolation & maintenance of dry field and application of the rubber Dam	Pediatric Dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams
13	1	Morphological consideration ,cavity preparation Cavity preparation on primary teeth,	Pediatric Dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams
14	1	Restorative materials used on pediatric dentistry	Pediatric Dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams
15	1	Matrices & retainers	Pediatric Dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams
16	1	Chrome steel crowns, ART	Pediatric Dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams
17	1	Treatment of deep caries	Pediatric Dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams

18	1	Indirect pulp treatment	Pediatric Dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams
19	1	Vital pulp therapy pulpotomy	Pediatric Dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams
20	1	Non vital pulp therapytechnique	Pediatric Dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams
21	1	Reaction of pulp to various capping material	Pediatric Dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams
22	1	Local anesthesia and pain control for children Type of space maintainer(indication andcontraindication Type of space maintainer(indication andcontraindication Type of space maintainer(indication andcontraindication Type of space maintainer(indication andcontraindication Type of space maintainer(indication andcontraindication	Pediatric Dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams
23	1	Anesthetizing mandibular and maxillary teeth and soft tissue	Pediatric Dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams
24	1	complications after a local anesthetic	Pediatric Dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams

25	1	supplemental injection techniques	Pediatric Dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams
26	1	Oral surgery for children, indication and contraindications for extraction of primary teeth	Pediatric Dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams
27	1	technique for extraction of primary teeth	Pediatric Dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams
28	1	extraction complications	Pediatric Dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams
29	1	postoperative extraction complications, radiographic survey of teeth extracted	Pediatric Dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams
30	1	Infections manifestation and management	Pediatric Dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams

11. Course evaluation

- Attending lectures
- Short and Quick Daily Exams
- Quarterly, semi-annual and annual exams
- The way to give questions and space for discussion to solve them during the lecture

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	<ul style="list-style-type: none"> ○ Lectures summarizing the important topics.
Main references	<ul style="list-style-type: none"> ○ McDONALD AND AVERY'S DENTISTRY for CHILD and ADOLESCENT 2022 by Elsevier ○ Hand book of pediatric dentistry (Cameron) mosby.

Conservative endo:-

Course Description

1. Course Name	
Conservative endo	
2. Course Code	
419CV	
3. Semester / Year	
Fourth year	
4. Description Preparation Date	
2025	
5. Available Attendance Forms	
Theoretical and practical	
6. Number of Credit Hours (Total) / Number of Units (Total)	
22 theoretical + 90 practical	
7. Course administrator's name (mention all, if more than one name)	
Name: ا.م.د. ديار خالد بكر م.م. زهراء صاحب مزعل	
8. Course Objectives	
Course objective	<p>Course objectives</p> <ul style="list-style-type: none">○ Students are clinically trained in the specialty of restorative dentistry (fillings) and laboratory training in root canal fillings. Students are also subjected to clinical training on patients in the dental clinic under the supervision of specialized professors. Students are also trained to identify and deal with the tools used in restorative dentistry and provide them With adequate knowledge of the basic principles of making dental cavities and filling them with different metal and optical fillings, studying the basic principles of making fillings for the roots of the teeth by performing different exercises using real extracted teeth and resin models, and training students to evaluate their mistakes and improve their skills <p>Cognitive objectives</p> <ul style="list-style-type: none">○ Training the student on how to examine and diagnose disease states.○ Focusing on the clinical steps of treating tooth decay and the use of various dental fillings○ The student acquires adequate knowledge of the steps of root canal fillings○ Understand how to use root canal tools and regular <p>The skills objectives of the course</p> <ul style="list-style-type: none">○ Students acquire the skills of using various dental root restoration tools and fillings

	<ul style="list-style-type: none"> ○ Students' acquisition of training skills on the steps of making root canal fillings using real, extracted teeth
9. Teaching and Learning Strategies	
Strategy	<ul style="list-style-type: none"> ○ Giving scientific and theoretical lectures through display screens and PowerPoint and watching educational films. ○ Educational lessons using extracted teeth ○ Educational lessons using resin models of teeth ○ Practical application to patients

10. Course Structure

Part 1: Operative and Aesthetic Dentistry

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	1	Biologic Considerations of Enamel structure and its Clinical Significance in Practice of Operative Dentistry.	Conservative endo:-	A theoretical lecture using power point	Short, semester, half-year and final exams
2	1	Biologic Considerations of Enamel structure and its Clinical Significance in Practice of Operative Dentistry.	Conservative endo:-	A theoretical lecture using power point	Short, semester, half-year and final exams
3	1	Biologic Considerations of Dentin structure & its Clinical Significance in Operative Dentistry	Conservative endo	A theoretical lecture using power point	Short, semester, half-year and final exams
4	1	Biologic Considerations of Dentin structure & its Clinical Significance in Operative Dentistry	Conservative endo	A theoretical lecture using power point	Short, semester, half-year and final exams
5	1	Patient Evaluation , Diagnosis & Treatment Planning	Conservative endo:-	A theoretical lecture using power point	Short, semester, half-year and final

					exams
6	1	Caries Management (Diagnosis & treatment strategies)	Conservative endo:-	A theoretical lecture using power point	Short, semester, half-year and final exams
7	1	Cervical Lesions(carious and non carious lesions)	Conservative endo:-	A theoretical lecture using power point	Short, semester, half-year and final exams
8	1	Restorative Dentistry and Pulpal Health	Conservative endo:-	A theoretical lecture using power point	Short, semester, half-year and final exams
9	1	Management of Deep Seated Caries	Conservative endo:-	A theoretical lecture using power point	Short, semester, half-year and final exams
10	1	Inflammatory Conditions of the Pulp	Conservative endo:-	A theoretical lecture using power point	Short, semester, half-year and final exams
11	1	Treatment of Deep Seated Caries Simplified anatomical modeling.	Conservative endo:-	A theoretical lecture using power point	Short, semester, half-year and final exams
12	1	Fluoride – Releasing Materials	Conservative endo:-	A theoretical lecture using power point	Short, semester, half-year and final exams
13	1	Indirect aesthetic adhesive restorations Inlays and Onlays (materials ,techniques) CAD/CAM	Conservative endo:-	A theoretical lecture using power point	Short, semester, half-year and final

		Technology.			exams
14	1	Direct tooth-colored restorations(Composite)	Conservative endo:-	A theoretical lecture using power point	Short, semester, half-year and final exams
15	1	Dental Laser	Conservative endo:-	A theoretical lecture using power point	Short, semester, half-year and final exams
16	1	Application of Laser in Conservative Dentistry	Conservative endo:-	A theoretical lecture using power point	Short, semester, half-year and final exams
17	1	Application of Laser in Conservative Dentistry.	Conservative endo:-	A theoretical lecture using power point	Short, semester, half-year and final exams
18	1	Indirect tooth-colored restoration	Conservative endo:-	A theoretical lecture using power point	Short, semester, half-year and final exams
19	1	Techniques of posterior composite Inlay/Onlay restoration system Laboratory-processed composite inlays and onlays.	Conservative endo:-	A theoretical lecture using power point	Short, semester, half-year and final exams
20	1	Ceramic veneers, inlays and onlays, clinical procedures	Conservative endo:-	A theoretical lecture using power point	Short, semester, half-year and final exams
21	1	Ceramic veneers, inlays and onlays, clinical procedures.	Conservative endo:-	A theoretical lecture using power point	Short, semester, half-year

					and final exams
22	1	CAD/CAM techniques	Conservative endo:-	A theoretical lecture using power point	Short, semester, half-year and final exams

2. Course Structure					
Part 2: Endodontic					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	1	Topics Covered	Operative and esthetic dentistry & endodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
2	1	1-Objective of endodontic treatment	Operative and esthetic dentistry & endodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
3	1	2- Basic Phases of Treatment	Operative and esthetic dentistry & endodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
4	1	3- Pulp pathologies	Operative and esthetic dentistry & endodontics	A theoretical lecture using power point	Short, semester, half-year and final exams

5	1	Classification of periapical diseases	Operative and esthetic dentistry & endodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
6	1	Access Opening Preparation	Operative and esthetic dentistry & endodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
7	1	Endodontic Instruments	Operative and esthetic dentistry & endodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
8	1	Roentgenography in Endodontics and Root canal preparation	Operative and esthetic dentistry & endodontics	A theoretical lecture using power point	Short, semester, half-year and final exams

3. Course evaluation

- Daily exam scores
- Semester Exams
- Weekly reports of practical experiences
- Daily attendance and participation in scientific questions / activity

4. Learning and Teaching Resources

Required textbooks (curricular books, if any)

- Lectures summarizing the important topics.

Main references

- Clinical Periodontology and Implant 1-Summitt's fundamentals of operative dentistry: A contemporary approach. 4th edition.
- 2- Dental composite materials for direct restorations. Vesna Miletic Springer, eBook, 2018.

- 3- Textbook of operative dentistry. 3rd edition. Nisha Garg, Amit Garg,

Endodontic Lect.

1- Cohen's Pathways of the Dental Pulp.
12th

ed. Louis H. Berman and Kenneth M.
Hargreaves.

2- Textbook of Endodontics. 2nd ed. 2010.
Nisha Garg, Amit Garg.

Periodontics

Course Description

1. Course Name	
Periodontics	
2. Course Code	
428PT	
3. Semester / Year	
Fourth year	
4. Description Preparation Date	
2025	
5. Available Attendance Forms	
Theoretical and practical	
6. Number of Credit Hours (Total) / Number of Units (Total)	
30 theoretical + 90 practica	
7. Course administrator's name (mention all, if more than one name)	
Name م.م. ابتهاج عطيه حبيب	
8. Course Objectives	
Course objective	Course objectives <ul style="list-style-type: none">○ The main objective of the branch is to increase health awareness of oral and dental health among citizens by preparing a health cadre of students who will perform this role after their graduation and serve them in health centers spread throughout Iraq○ The teaching aspect by giving lectures and holding scientific symposia and performing advanced surgical operations for the purpose of training students on that○ The therapeutic and preventive aspect, as the branch currently covers all disease cases related to gum disease and around the teeth referred to the college in addition to the preventive aspect of this subject The skills objectives of the course <ul style="list-style-type: none">○ Formulating information in a way that enables students to understand and increase knowledge regarding the diagnosis and treatment of various gum diseases○ Giving students instructions for oral and dental care for patients visiting the College of Dentistry The skills objectives of the course <ul style="list-style-type: none">○ Training students to remove plaque from teeth○ Instructions for oral health care

9. Teaching and Learning Strategies

Strategy	<ul style="list-style-type: none"> ○ Giving scientific and theoretical lectures through displays, PowerPoint, and slides.
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10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	1	Terms & definitions frequently used in periodontology	Periodontics	A theoretical lecture using power point	Short, semester, half year and final exams
2	1	Anatomy of periodontium: -gingiva -periodontal ligaments -alveolar bone -oral mucosa -cementum	Periodontics	A theoretical lecture using power point	Short, semester, half year and final exams
3	1	Anatomy of the periodontium Periodontal - ligaments (PDL) ○ Cellular elements ○ Ground substance ○ Development of principal fibers of PDL ○ Functions of periodontal ligaments i- Physical functions ii- Formative and Remodeling Function iii- Nutritional and sensory functions ○ Clinical consideration	Periodontics	A theoretical lecture using power point	Short, semester, half year and final exams
4	1	Anatomy of the periodontium Cementum- ○ Definition ○ Function of cementum	Periodontics	A theoretical lecture using power point	Short, semester, half year and final exams

		<ul style="list-style-type: none"> o Classification of :cementum i- Acellular afibrillar cementum ii- Acellular extrinsic fiber cementum iii- Cellular mixed stratified cementum iv- Cellular intrinsic fiber cementum o Development and mineralization of cementum o Cementoenamel junction o Cementodentinal junction o Thickness of Cementum in response to physiologic and pathologic conditions i- Normal thickness ii- Cemental aplasia 			
5	1	<p>Anatomy of the periodontium</p> <p>Alveolar process-</p> <ul style="list-style-type: none"> o Definition o Function of alveolar process o Parts of the alveolar process <p>i- Alveolar bone proper</p> <p>ii- An external plate of cortical bone</p> <p>iii- Cancellous trabeculae or spongy bone</p> <ul style="list-style-type: none"> o Basal bone <p>o Anatomic division of the alveolar process</p> <p>i- Interproximal bone</p> <p>ii- Inter radicular bone</p>	Periodontics	A theoretical lecture using power point	Short, semester, half year and final exams

		<ul style="list-style-type: none"> iii- Radicular bone <ul style="list-style-type: none"> o Composition of the bone i- Cellular elements <ul style="list-style-type: none"> ii- Organic components iii- Inorganic components o Haversian system or Osteon o Periosteum and Endosteum o Remodeling of alveolar bone 			
6	1	<p>Classification of periodontal diseases and conditions (2017)</p> <p>Reasons for - classification</p> <p>Major changes - from previous classification</p> <p>Periodontal health - and gingival diseases and conditions</p> <p>Periodontal health :and gingival health</p> <ul style="list-style-type: none"> o Clinical gingival health on an intact periodontium o Clinical gingival health on a reduced :periodontium <ul style="list-style-type: none"> i- Stable periodontitis ii- Non-periodontitis patients <p>The classification of dental biofilm</p> <ul style="list-style-type: none"> :induced gingivitis <ul style="list-style-type: none"> o Associated with bacterial dental biofilm only o Mediated by systemic or local risk factors <ul style="list-style-type: none"> i- Systemic conditions 	Periodontics	A theoretical lecture using power point	Short, semester, half year and final exams

		<ul style="list-style-type: none"> ii- Oral factors enhancing plaque accumulation o Drug-influenced gingival enlargements <p>Case definition of :gingivitis</p> <ul style="list-style-type: none"> o Gingivitis on an intact periodontium o Gingivitis on a reduced periodontium 			
7	1	<p>Classification of periodontal diseases and conditions (2017)</p> <p>Periodontitis-</p> <ul style="list-style-type: none"> o Periodontitis (Extent, Staging, Grading, Status, Risk factors) o Necrotizing :periodontal diseases <ul style="list-style-type: none"> i- Necrotizing gingivitis ii- Necrotizing periodontitis iii- Necrotizing (Stomatitis) o Periodontitis as a manifestation of systemic disease 	Periodontics	A theoretical lecture using power point	Short, semester, half year and final exams
8	1	<p>Classification of periodontal diseases and conditions (2017)</p> <p>Other conditions affecting the periodontium</p> <p>Periodontal -</p> <ul style="list-style-type: none"> :abscess o Periodontal abscess in periodontitis patients o Periodontal abscess in non-periodontitis patients <p>Endodontic -</p> <ul style="list-style-type: none"> :periodontal lesions 	Periodontics	A theoretical lecture using power point	Short, semester, half year and final exams

		<ul style="list-style-type: none"> o Endo-periodontal lesions associated with endodontic and periodontal infections o Endo-periodontal lesions associated with trauma and iatrogenic factors Mucogingival - deformity and conditions Traumatic occlusal - force -Tooth and prosthetic related factors 			
9	1	Etiology of periodontal disease	Periodontics	A theoretical lecture using power point	Short, semester, half year and final exams
10	1	Etiology of periodontal disease and risk factors	Periodontics	A theoretical lecture using power point	Short, semester, half year and final exams
11	1	Microbiologic specificity of periodontal diseases	Periodontics	A theoretical lecture using power point	Short, semester, half year and final exams
12	1	Dental calculus	Periodontics	A theoretical lecture using power point	Short, semester, half year and final exams
13	1	Dental stain	Periodontics	A theoretical lecture using power point	Short, semester, half year and final exams
14	1	Etiology of periodontal disease	Periodontics	A theoretical lecture using power point	Short, semester, half year and final exams
15	1	Etiology of periodontal disease - Molecular biology of host-microbe interactions	Periodontics	A theoretical lecture using power point	Short, semester, half year and final exams

16	1	Etiology of periodontal disease and risk factors -Smoking and Periodontal Disease	Periodontics	A theoretical lecture using power point	Short, semester, half year and final exams
17	1	Impact of periodontal infection on systemic health	Periodontics	A theoretical lecture using power point	Short, semester, half year and final exams
18	1	Impact of periodontal infection on systemic health -Periodontal disease and asthma	Periodontics	A theoretical lecture using power point	Short, semester, half year and final exams
19	1	Periodontal indices	Periodontics	A theoretical lecture using power point	Short, semester, half year and final exams
20	1	The periodontal pocket	Periodontics	A theoretical lecture using power point	Short, semester, half year and final exams
21	1	The periodontal pocket Periodontal - disease activity Pulp changes - associated with periodontal pockets Relationship of - attachment loss and bone loss to pocket depth Area between base - of pocket and alveolar bone Relationship of - pocket to bone Periodontal - abscess -Lateral periodontal cyst	Periodontics	A theoretical lecture using power point	Short, semester, half year and final exams
22	1	Treatment plan § guidelines Phase 1 (behavior - change, removal of supragingival dental biofilm and risk factor control:(Periodontics	A theoretical lecture using power point	Short, semester, half year and final exams

23	1	Treatment plan guidelines -Phase 2 (cause-related therapy)	Periodontics	A theoretical lecture using power point	Short, semester, half year and final exams
24	1	Treatment plan guidelines -Phase 3 (corrective/surgical phase)	Periodontics	A theoretical lecture using power point	Short, semester, half year and final exams
25	1	Treatment plan guidelines -Phase 4 (maintenance therapy)	Periodontics	A theoretical lecture using power point	Short, semester, half year and final exams
26	1	Plaque biofilm control for the periodontal patient	Periodontics	A theoretical lecture using power point	Short, semester, half year and final exams
27	1	Plaque biofilm control for the periodontal patient Chemical plaque - biofilm control with oral rinses o Chlorhexidine :digluconate i- Mode of action ii- Clinical use	Periodontics	A theoretical lecture using power point	Short, semester, half year and final exams
28	1	Periodontal instruments and sharpening -Types of periodontal instruments	Periodontics	A theoretical lecture using power point	Short, semester, half year and final exams
29	1	Breath Malodor (Halitosis)	Periodontics	A theoretical lecture using power point	Short, semester, half year and final exams
30	1	Systemic anti-infective therapy for periodontal diseases	Periodontics	A theoretical lecture using power point	Short, semester, half year and final exams

11. Course evaluation

- Daily exam scores
- Semester Exams
- Daily attendance and participation in scientific questions/activity

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	<ul style="list-style-type: none">○ Lectures summarizing the important topics.
Main references	<ul style="list-style-type: none">○ Clinical Periodontology and Implant Dentistry, Seventh Edition, Niklaus P. Lang and Jan Lindhe, 2022○ Newman and Carranza's Clinical Periodontology, Thirteen Edition, 2019



The Fifth Stage

Oral Medicine

Course Description

1. Course Name	
Oral Medicine	
2. Course Code	
5290M	
3. Semester / Year	
Fifth year	
4. Description Preparation Date	
2025	
5. Available Attendance Forms	
Theoretical and practical	
6. Number of Credit Hours (Total) / Number of Units (Total)	
60 theoretical + 120 practical	
7. Course administrator's name (mention all, if more than one name)	
Name: م.د. عماد حسان حمودي	
8. Course Objectives	
Course objective	Course objective <ul style="list-style-type: none">○ Qualifying dentists who are able to know the causes of various diseases that affect the mouth and study their clinical diagnosis and treatment methods. Cognitive goals <ul style="list-style-type: none">○ The ability to distinguish between different diseases that affect the interior of the mouth.○ Oral disease treatment methods.○ Diagnosis and treatment of the temporomandibular joint The skills objectives of the course <ul style="list-style-type: none">○ The ability to distinguish between oral diseases.○ How to use dyes.○ How to cut tissue.
9. Teaching and Learning Strategies	
Strategy	<ul style="list-style-type: none">○ Giving scientific and theoretical lectures through screens, PowerPoint, and slides, and practical experiments in the educational laboratories of the college.

10.Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2	The principles of oral diagnosis Clinical examinations	Oral Medicine	A theoretical lecture using power point	Short, semester, half-year and final exams
2	2	Laboratory investigations in dentistry	Oral Medicine	A theoretical lecture using power point	Short, semester, half-year and final exams
3	2	orofacial pain	Oral Medicine	A theoretical lecture using power point	Short, semester, half-year and final exams
4	2	T.M.J	Oral Medicine	A theoretical lecture using power point	Short, semester, half-year and final exams
5	2	Oral ulceration and Vesiculo-bullus lesions	Oral Medicine	A theoretical lecture using power point	Short, semester, half-year and final exams
6	2	White & red lesions	Oral Medicine	A theoretical lecture using power point	Short, semester, half-year and final exams
7	2	Oral cancer	Oral Medicine	A theoretical lecture using power point	Short, semester, half-year and final exams
8	2	Pigmented oral lesions	Oral Medicine	A theoretical lecture using power point	Short, semester, half-year and final exams
9	2	Benign, Premalignant and malignant lesions of the oral cavity	Oral Medicine	A theoretical lecture using power point	Short, semester, half-year and final exams

10	2	Neuromuscular disorder	Oral Medicine	A theoretical lecture using power point	Short, semester, half-year and final exams
11	2	Salivary glands diseases	Oral Medicine	A theoretical lecture using power point	Short, semester, half-year and final exams
12	2	Autoimmune diseases	Oral Medicine	A theoretical lecture using power point	Short, semester, half-year and final exams
13	2	Oral manifestation of allergic reaction	Oral Medicine	A theoretical lecture using power point	Short, semester, half-year and final exams

11. Course evaluation

- Daily exam scores
- Semester Exams
- Weekly reports of practical experiences
- Daily attendance and participation in scientific questions / activity

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)

- Lectures summarizing the important topics.

Main references

- Burket's oral medicine. Michael Glick, Martin Greenberg, Peter Lockhart and Dstephen Challacombe. 13th edition.2021, Wiley Black well.
- Bumann, A., & Lotzmann, U. TMJ disorders and orofacial pain. The role of dentistry in a multidisciplinary approach. 2011, Thieme

Orthodontics

Course Description

1. Course Name	
Orthodontics	
2. Course Code	
5260D	
3. Semester / Year	
Fifth year	
4. Description Preparation Date	
2025	
5. Available Attendance Forms	
Theoretical and practical	
6. Number of Credit Hours (Total) / Number of Units (Total)	
60 theoretical + 60 practical	
7. Course administrator's name (mention all, if more than one name)	
Name: م.م. سعد عبد العالي عباس	
8. Course Objectives	
Course objective	Course objectives <ul style="list-style-type: none">○ Preparing the student at a high level of science with regard to diagnosing and treating minor cases of malaise using the mobile and functional device. Cognitive goals <ul style="list-style-type: none">○ Acquisition of knowledge by diagnosing and treating cases of malocclusion. The skills objectives of the course <ul style="list-style-type: none">○ Knowing the types of orthodontic devices related to each case.
9. Teaching and Learning Strategies	
Strategy	<ul style="list-style-type: none">○ Giving scientific and theoretical lectures through display screens and PowerPoint.○ Orthodontic training clinics.

10.Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2	Orthodontic diagnosis and treatment planning	Orthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
2	2	ii. Face examination in 3 dimensions iii. skeletal examination iv. Soft tissue examination	Orthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
3	2	v. Occlusion	Orthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
4	2	vi. Dentition vii. Temporomandibular joint	Orthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
5	2	d- Diagnostic aids i. Cephalometrics	Orthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
6	2	ii. Orthopantomography ii. Other views	Orthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
7	2	iv. Study models	Orthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
8	2	v. Photography vi. 3D imaging	Orthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
9	2	Treatment planning	Orthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams

10	2	f- Treatment of Medically compromised patients	Orthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
11	2	g- Orthodontic indices	Orthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
12	2	Space analysis, Bolton's ratio	Orthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
13	2	Teeth extraction in orthodontics	Orthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
14	2	Serial extraction	Orthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
15	2	Vertical and transverse problems:	Orthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
16	2	b. Open bite	Orthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
17	2	c. Crossbite and scissors bite	Orthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
18	2	Treatment of common local factors:	Orthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
19	2	f. Bad oral habits	Orthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams

20	2	Treatment of aberrant position of canines	Orthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
21	2	Treatment of general factors:	Orthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
22	2	Continue class I treatment (method of space creation)	Orthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
23	2	b. Class II div. 1 treatment	Orthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
24	2	c. Class II div. 2 treatment	Orthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
25	2	d. Class III treatment	Orthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
26	2	a- Periodontal problems Treatment of adults	Orthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
27	2	b- Orthognathic surgery	Orthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
28	2	Cleft lip and palate	Orthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
29	2	Continue cleft lip and palate	Orthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams

30	2	Digital orthodontics (digital approach in orthodontic diagnosis and treatment)	Orthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
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11. Course evaluation

- Daily exam scores
- Semester Exams
- Short exams

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	<ul style="list-style-type: none"> ○ Lectures summarizing the important topics.
Main references	<ul style="list-style-type: none"> ○ An Introduction to Orthodontics 5th Edition Simon J. Littlewood and Laura Mitchell 2019. ○ Orthodontics: Principles and Practice: Principles and Practice 2nd Edition 2017

Prosthodontics

Course Description

1. Course Name	
Prosthodontics	
2. Course Code	
510PR	
3. Semester / Year	
Fifth year	
4. Description Preparation Date	
2025	
5. Available Attendance Forms	
Theoretical and practical	
6. Number of Credit Hours (Total) / Number of Units (Total)	
30 theoretical + 180 practical	
7. Course administrator's name (mention all, if more than one name)	
Name: ا.م.د. ايناس طه ابراهيم	
8. Course Objectives	
Course objective	Course objectives <ul style="list-style-type: none">○ Training the student on how to examine patients and diagnose the patient's pathological condition by modern and currently approved diagnostic methods, then prepare a treatment plan and then start treatment in a correct scientific manner○ Using modern materials and methods in the manufacture of the complete set by giving theoretical lectures with practice in clinics Cognitive and skill goals <ul style="list-style-type: none">○ Giving the necessary information to deal with the materials involved in the dental industry process and the manufacture of the complete set in particular○ Training the student on how to examine and diagnose disease states○ Giving important information and treatment steps patient during examination and treatment while sitting on the dental chair The skills objectives of the course <ul style="list-style-type: none">○ Describe the tools used to treat patients who need the complete kit○ Follow-up of the student during his training in clinics.
9. Teaching and Learning Strategies	

Strategy	<ul style="list-style-type: none"> ○ Giving practical and theoretical lectures through display screens and PowerPoint ○ Live explanation and dealing with all kinds of materials mentioned within the curriculum in front of the students after dividing them into groups on the number of days of the week and explaining all the steps with a detailed explanation ○ Summer Internship ○ Group educational workshops ○ Seminars
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10.Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	1	Occlusion in Complete Denture	Prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
2	1	Occlusion in Complete Denture (Continue)	Prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
3	1	Retention, Stability And Support	Prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
4	1	Retention, Stability And Support (Continue)	Prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
5	1	Post Insertion Problems	Prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
6	1	Post Insertion Problems (Continue)	Prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
7	1	Complications Of Complete Denture	Prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams

8	1	Complications Of Complete Denture(Continue)	Prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
9	1	Immediate Denture	Prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
10	1	Immediate Denture (Continue)	Prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
11	1	Classification system for completely edentulous patients	Prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
12	1	Classification system for completely edentulous patients(Continue)	Prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
13	1	Posterior palatal seal area	Prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
14	1	Single CD	Prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
15	1	Single CD (Continue)	Prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
16	1	Geriatric dentistry	Prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
17	1	Maxillofacial Prosthesis	Prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams

18	1	Maxillofacial Prosthesis (Continue)	Prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
19	1	Residual Ridge resorption	Prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
20	1	Residual Ridge resorption (Continue)	Prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
21	1	Dental implantology	Prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
22	1	Dental implantology (Continue)	Prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
23	1	Esthetics in CD	Prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
24	1	Characteristics Of Ideal Materials For Dental Implant	Prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
25	1	Copy denture	Prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
26	1	Over Denture	Prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
27	1	Over Denture (Continue)	Prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams

28	1	Neutral zone in CD	Prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
29	1	Attachments in over denture	Prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams
30	1	Attachments in over denture (Continue)	Prosthodontics	A theoretical lecture using power point	Short, semester, half-year and final exams

11. Course evaluation

- Theoretical and practical exams, in addition to the treatment requirements, which are a number of cases that the student must treat correctly, accurately and completely, to calculate them from the requirements of the annual quest, as well as the graduation project
- Monthly, semi-annual and annual exams

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	<ul style="list-style-type: none"> ○ Lectures summarizing the important topics.
Main references	<ul style="list-style-type: none"> ○ - Zarb, Hobkirk, Eckert, Jacob et al. Prosthodontic treatment for edentulous patients: Complete dentures and implant-supported prostheses. 13th edition 2013 by Mosby, Elsevier Inc. ○ Golden and Driscoll. Treating the complete denture patient. 1st edition 2020 John Wiley & Sons, Inc

Preventive Dentistry

Course Description

1. Course Name	
Preventive Dentistry	
2. Course Code	
531PD	
3. Semester / Year	
Fifth year	
4. Description Preparation Date	
2025	
5. Available Attendance Forms	
Theoretical and practical	
6. Number of Credit Hours (Total) / Number of Units (Total)	
30 theoretical + 60 practical	
7. Course administrator's name (mention all, if more than one name)	
Name: ا.م.د. لمياء عبد الخالق محمد سعيد	
8. Course Objectives	
Course objective	Course objectives <ul style="list-style-type: none">○ Introducing the importance of preventive dentistry and its applications for individuals and society, especially for widespread diseases such as tooth decay and gum disease, as well as with regard to nutrition and immune factors against oral and dental diseases.○ Course outcomes and methods of teaching, learning and assessment Cognitive goals <ul style="list-style-type: none">○ Formulating information in a way that enables students to understand and increase knowledge regarding the diagnosis and treatment of various diseases such as caries.○ Giving instructions for dental care and health awareness to prevent caries and gum disease.○ Giving special instructions and preventive programs for oral and dental health to the elderly and adults with special needs. The skills objectives of the course <ul style="list-style-type: none">○ Training the student to treat tooth decay and remove plaque from the teeth.○ Training the student on how to use fluoride to prevent cavities.○ Giving instructions for dental and oral health care.
9. Teaching and Learning Strategies	

Strategy	<ul style="list-style-type: none"> ○ Giving lectures through displays, PowerPoint and slides ○ Preparing seminars by students under the supervision of professors.
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10.Course Structure					
Wee k	Hou rs	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	1	Prevention of oral diseases (introduction) • What is preventive dentistry? • Prevention is better than a cure • • Is preventive dentistry still needed. • Levels of prevention • Caries prevention: how far it had come in one century!	Preventive Dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams
2	1	Dental caries development • • Etiology of dental caries • • Inorganic and organic components of tooth • • Terminology of dental caries • • Dynamics Process of De-Demineralization	Preventive Dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams
3	1	Diagnosis of dental caries <input type="checkbox"/> Detection systems of caries <input type="checkbox"/> visual and	Preventive Dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams

		tactile examinations <input type="checkbox"/> Radiographic techniques <input type="checkbox"/> Electrical current measurement (electronic resistant method) <input type="checkbox"/> Fiber Optic Trans illumination (FOTI and DiFOTI) (Enhanced visual techniques) <input type="checkbox"/> Fluorescent techniques <input type="checkbox"/> Other techniques like Dyes, Ultrasound techniques, Photothermal Radiometry (PTR)			
4	1	Fluoride in Dentistry <input type="checkbox"/> Introduction <input type="checkbox"/> Fluoride in Environment <input type="checkbox"/> Fluoride Metabolism (Absorption, Distribution and Excretion of Fluoride in the Body).	Preventive Dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams
5	1	Fluorides in prevention and controlling dental caries <input type="checkbox"/> Mechanism of action <input type="checkbox"/> Fluoride's effect on tooth mineral	Preventive Dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams

		<input type="checkbox"/> Fluoride effect on plaque and bacterial metabolism			
6	1	Topical fluoride therapy Professionally applied fluoride <input type="checkbox"/> Introduction <input type="checkbox"/> Advantages and disadvantages of topical fluoride application <input type="checkbox"/> Fluoride Compounds <input type="checkbox"/> Classification of Professionally applied fluoride.	Preventive Dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams
7	1	Topical fluoride therapy :Self-applied fluoride <input type="checkbox"/> Requisites for self-applied fluoride agents <input type="checkbox"/> Fluoride dentifrices and Mechanism of Action <input type="checkbox"/> Fluoride mouth rinses, Indications and Recommendations.	Preventive Dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams
8	1	Safety and toxicity of fluoride • Fluoride Toxicity • Factors influencing acute toxicity • Management of acute toxicity • Recommendations for parents • Chronic Toxicity(Preventive Dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams

		Dental fluorosis and bone fluorosis)			
9	1	Dentalsealants <input type="checkbox"/> definition <input type="checkbox"/> History <input type="checkbox"/> indication and contraindication <input type="checkbox"/> sealant in adult <input type="checkbox"/> Idealsealants materials <input type="checkbox"/> Requisites for Sealant Retention <input type="checkbox"/> Sealant Placement Guidelines <input type="checkbox"/> Fluoride-Releasing Sealants <input type="checkbox"/> Glass ionomer sealants <input type="checkbox"/> Colored Versus Clear Sealants <input type="checkbox"/> Sealants for proximal enamel surfaces <input type="checkbox"/> Sealing over caries lesions	Preventive Dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams
10	1	New approach in restorative dentistry <input type="checkbox"/> Minimally Invasive Treatment Technique <input type="checkbox"/> Minimally Invasive Cavity Preparation <input type="checkbox"/> Non-machinery Preparation <input type="checkbox"/> LASER <input type="checkbox"/> Chemo mechanical Caries	Preventive Dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams

		Removal <input type="checkbox"/> Preventive Resin Restorations Demineralization Treatment			
11	1	Microbiology of dental caries <input type="checkbox"/> Microbial ecology in the oral cavity <input type="checkbox"/> Acquisition of the resident oral microflora <input type="checkbox"/> Site distribution of oral bacteria <input type="checkbox"/> Ecological factors affecting the growth and metabolism of oral bacteria <input type="checkbox"/> Dental biofilms: development, structure, composition and properties <input type="checkbox"/> Development of dental biofilms <input type="checkbox"/> Pellicle formation <input type="checkbox"/> Microbial colonization <input type="checkbox"/> Initial microbial colonization Microbial succession	Preventive Dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams
12	1	Saliva and host defense mechanism <input type="checkbox"/> Function of saliva 1 155 <input type="checkbox"/> Composition of	Preventive Dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams

		saliva <input type="checkbox"/> Salivary flow rate <input type="checkbox"/> Influence of saliva on dental caries <input type="checkbox"/> Oral immune system <input type="checkbox"/> Non-specific immune factors <input type="checkbox"/> Specific immune factors <input type="checkbox"/> Immunization of dental caries			
13	1	Caries risk assessment <input type="checkbox"/> Goals of Caries Risk Assessment <input type="checkbox"/> Caries Disease Indicators <input type="checkbox"/> Caries Risk Factors <input type="checkbox"/> Caries Protective Factors <input type="checkbox"/> Factors in Low, Moderate and High Caries <input type="checkbox"/> Cariogram	Preventive Dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams
14	1	infection control <input type="checkbox"/> Transmission of infection <input type="checkbox"/> Standard precautions <input type="checkbox"/> Components of infection control <input type="checkbox"/> Treatment room features <input type="checkbox"/> Single use disposable instruments <input type="checkbox"/> Biomedical waste management	Preventive Dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams

15	1	Oral hygiene measures (Mechanical) <input type="checkbox"/> Acquired pellicle <input type="checkbox"/> Dental plaque <input type="checkbox"/> Dental calculus <input type="checkbox"/> Mechanical plaque control aids <input type="checkbox"/> Toothbrushes <input type="checkbox"/> Tooth brushing methods <input type="checkbox"/> Powered toothbrush <input type="checkbox"/> Objectives of toothbrushing <input type="checkbox"/> Interdental Cleaning aids	Preventive Dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams
16	1	Oral hygiene measures (Chemical) <input type="checkbox"/> Ideal properties of chemical plaque control agents <input type="checkbox"/> Modes of action <input type="checkbox"/> Chlorhexidine <input type="checkbox"/> Triclosan <input type="checkbox"/> Essential oil mouthwashes or Listerine <input type="checkbox"/> Enzymes	Preventive Dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams
17	1	Diet and dental caries <input type="checkbox"/> Role of carbohydrates in caries development <input type="checkbox"/> Evidences <input type="checkbox"/> Factors affecting food cariogenicity <input type="checkbox"/> Physical form of food and clearance time <input type="checkbox"/> Types of	Preventive Dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams

		fermentable carbohydrate <input type="checkbox"/> The basic Stephan curve <input type="checkbox"/> Frequency of intake sugar and dental caries			
18	1	Non- sugar sweeteners <input type="checkbox"/> The sweetness of sugars <input type="checkbox"/> Non- sugar sweeteners <input type="checkbox"/> Bulk sweeteners <input type="checkbox"/> Intense sweeteners <input type="checkbox"/> Protective factors in food <input type="checkbox"/> Fruit and dental caries <input type="checkbox"/> Testing food cariogenicity	Preventive Dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams
19	1	Dietary counseling in dental practice <input type="checkbox"/> Nutritional status assessment <input type="checkbox"/> Body Mass Index <input type="checkbox"/> Assessment of dietary intake <input type="checkbox"/> Objectives of dietary assessment <input type="checkbox"/> 24-hour recall <input type="checkbox"/> Dietary record <input type="checkbox"/> Food frequency questionnaires <input type="checkbox"/> Evaluation of cariogenic potential <input type="checkbox"/> Evaluation of nutritive value	Preventive Dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams

20	1	Nutrition and dental health <input type="checkbox"/> Nutrition dental caries <input type="checkbox"/> Systemic effect <input type="checkbox"/> Morphology of the teeth <input type="checkbox"/> The quality of the hard tissues <input type="checkbox"/> Quality of saliva <input type="checkbox"/> Evidences of the effect of some nutrients on dental caries <input type="checkbox"/> Nutrition and eruption of teeth	Preventive Dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams
21	1	Prevention of periodontal disease and oral cancer by nutrition <input type="checkbox"/> Nutrition and periodontal health <input type="checkbox"/> The mechanisms by which nutrition may affect periodontal disease <input type="checkbox"/> Effect of food texture on periodontal health <input type="checkbox"/> Nutrition and oral mucosal disease <input type="checkbox"/> Nutrition and oral cancer <input type="checkbox"/> Primary prevention <input type="checkbox"/> Secondary prevention	Preventive Dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams
22	1	Probiotics and dental health <input type="checkbox"/> Caries-related mechanisms of probiotic activity <input type="checkbox"/> Probiotics and counts of mutans streptococci <input type="checkbox"/> Probiotics and caries occurrence	Preventive Dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams

		<input type="checkbox"/> Probiotics and periodontal health			
23	1	Diagnosis and prevention of dental erosion <input type="checkbox"/> Prevalence <input type="checkbox"/> Early detection <input type="checkbox"/> Etiology <input type="checkbox"/> Protection against erosion <input type="checkbox"/> Prevention of erosion	Preventive Dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams
24	1	Prevention of malocclusion <input type="checkbox"/> Normal development <input type="checkbox"/> Etiology of malocclusion <input type="checkbox"/> Interceptive measures <input type="checkbox"/> Tooth anomalies <input type="checkbox"/> Risk assessmen	Preventive Dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams
25	1	preventive measure for population with developmental disabilities <input type="checkbox"/> Disability definition <input type="checkbox"/> Classification of disabling conditions <input type="checkbox"/> The issues regarding the delivery of care to people with disabilities <input type="checkbox"/> Dental management and preventive measures among disabled individuals <input type="checkbox"/> The risk factors for dental caries among disabled individuals <input type="checkbox"/> People with physical (neurological) impairment <input type="checkbox"/> Visual Deficits	Preventive Dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams

26	1	preventive treatment strategies for medically compromised 158 populations <input type="checkbox"/> Introduction <input type="checkbox"/> Eating disorders: Characteristics and preventive treatment strategies <input type="checkbox"/> Depression: Characteristics and preventive treatment strategies <input type="checkbox"/> Diabetes mellitus: Characteristics and preventive treatment strategies	Preventive Dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams
27	1	Ozone in the prevention of dental diseases <input type="checkbox"/> Definition and physical properties <input type="checkbox"/> Mode of action <input type="checkbox"/> Safety <input type="checkbox"/> Application of ozone in dentistry <input type="checkbox"/> Effects of ozone on oral microorganisms and oral cells <input type="checkbox"/> Ozone for disinfecting dentures <input type="checkbox"/> Ozone instruments designed for dentistry <input type="checkbox"/> Ozone in the management of incipient caries <input type="checkbox"/> Ozone in the management of open caries <input type="checkbox"/> Treating root caries with ozone	Preventive Dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams
28	1	Geriatric dentistry <input type="checkbox"/> population characteristics <input type="checkbox"/> Physiologic Changes <input type="checkbox"/> Functionalstatus <input type="checkbox"/> common oral manifestation <input type="checkbox"/> preventive measures	Preventive Dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams

		<input type="checkbox"/> long term care			
29	1	Implant care <input type="checkbox"/> Dental implant parts <input type="checkbox"/> Dental implant and biofilm <input type="checkbox"/> Implant Maintenance <input type="checkbox"/> Professional care in dental clinic <input type="checkbox"/> Home care	Preventive Dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams
30	1	Protection of the dentition <input type="checkbox"/> Impact of dental trauma <input type="checkbox"/> Types of traumatic dental injuries to teeth <input type="checkbox"/> Sports dentistry <input type="checkbox"/> Protective mouth-guards <input type="checkbox"/> Evidence of effectiveness <input type="checkbox"/> mouth-guards and oral & systemic infections	Preventive Dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams

11. Course evaluation

- Daily exam scores
- Semester Exams
- Weekly reports of practical experiences
- Daily attendance and participation in scientific questions / activity

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	<ul style="list-style-type: none"> ○ Lectures summarizing the important topics.
Main references	<ul style="list-style-type: none"> ○ Primary Preventive Dentistry by Harris NO GarciaGodoyF-NatheCN 8th Ed)20014 . ○ Comprehensive preventive dentistry (2012) Edited by Hardy Limeback

Pediatric Dentistry

Course Description

1. Course Name	
Pediatric Dentistry	
2. Course Code	
530PAPD	
3. Semester / Year	
Fifth year	
4. Description Preparation Date	
2025	
5. Available Attendance Forms	
Theoretical and practical	
6. Number of Credit Hours (Total) / Number of Units (Total)	
30 theoretical + 60 practical	
7. Course administrator's name (mention all, if more than one name)	
Name: م.د. مظفر فاضل جدوع	
8. Course Objectives	
Course objective	Course objectives <ul style="list-style-type: none">○ Understand and comprehend the theoretical and practical methods of treating all cases of injury to children's teeth and learn about scientific methods and methods supported by means of illustration to know how to identify primary and permanent teeth and the problems related to them. Cognitive goals <ul style="list-style-type: none">○ Formulating information in a way that enables the student to understand.○ Increasing knowledge regarding the diagnosis and treatment of various cases of dental diseases in children.○ Oral and dental care and awareness of the importance of preserving milk teeth until permanent teeth erupt in children. The skills objectives of the course <ul style="list-style-type: none">○ Training students on the pathological conditions of children's teeth.○ Giving instructions on how to deal and interact with children.○ Acquisition of skills for diagnosing primary and permanent teeth in children.
9. Teaching and Learning Strategies	

Strategy	<ul style="list-style-type: none"> ○ Giving scientific and theoretical lectures through display screens and PowerPoint.
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10.Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	1	Diagnosis and treatment planning	Pediatric Dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams
2	1	Preliminary medical and dental history	Pediatric Dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams
3	1	Art and science of behavior management	Pediatric Dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams
4	1	Non pharmacologic management of patient behavior	Pediatric Dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams
5	1	Pharmacologic management of patient behavior	Pediatric Dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams
6	1	Sedation in pediatric dentistry	Pediatric Dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams
7	1	management of traumatic injuries to the teeth and supporting tissues of children,	Pediatric Dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams
8	1	classification of injuries to the anterior teeth of children classification	Pediatric Dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams

9	1	Traumatic injuries of the primary teeth and its effect on permanent teeth	Pediatric Dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams
10	1	Treatment of injury of permanent teeth, emergency treatment, temporary restoration	Pediatric Dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams
11	1	Advances in Pediatric :Dentistry Advances in diagnostic ,aids Advances in cavity preparation methods	Pediatric Dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams
12	1	Advances in endodontics, Advances in local anesthesia	Pediatric Dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams
13	1	Advances in restorative materials, Advances in surgical procedures, miscellaneous	Pediatric Dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams
14	1	Acquired disturbances of oral structures	Pediatric Dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams
15	1	Developmental disturbances of oral structures	Pediatric Dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams
16	1	Gingivitis and periodontal disease in children:	Pediatric Dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams
17	1	Acute candidacies (thrush), acute bacterial infection, chronic non	Pediatric Dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams

		specific gingivitis, gingival			
18	1	Gingival lesions of genetic origin, ascorbic acid deficiency gingivitis.	Pediatric Dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams
19	1	Periodontal diseases in children, early onset periodontitis,	Pediatric Dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams
20	1	Papillon – Lefevre ,syndrome gingival recession, extrinsic stains and deposits on teeth	Pediatric Dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams
21	1	Management of space ,problems planning for space ,maintenance loss of primary incisors	Pediatric Dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams
22	1	Space Maintenance for the First and Second	Pediatric Dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams
23	1	Loss of the Second Primary Molar Before Eruption of the First Permanent Molar, Areas of Multiple Primary Molar Loss	Pediatric Dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams
24	1	Development of dental arch and occlusion;	Pediatric Dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams
25	1	Arch length analysis;	Pediatric Dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams

26	1	Dental problems of the disabled child	Pediatric Dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams
27	1	Mental disability, Down syndrome, Intellectual disability, Learning disability	Pediatric Dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams
28	1	Fragile X syndrome, cerebral palsy, autism,	Pediatric Dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams
29	1	Respiratory diseases, hearing loss, visual impairment, epilepsy	Pediatric Dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams
30	1	Heart disease, hemophilia, sickle cell anemia, viral hepatitis, AIDS children with systemic diseases	Pediatric Dentistry	A theoretical lecture using power point	Short, semester, half-year and final exams

11. Course evaluation

- Daily exam scores
- Semester Exams
- The method of giving questions and a space for discussion to solve them during the lecture.

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	<ul style="list-style-type: none"> ○ Lectures summarizing the important topics.
Main references	<ul style="list-style-type: none"> ○ McDONALD AND AVERY'S DENTISTRY for CHILD and ADOLESCENT 2022 by Elsevier ○ Text book of pediatric dentistry Nikhil Marwa 2nd ed. 2019 New Delhi.

Oral Surgery

Course Description

1. Course Name	
Oral Surgery	
2. Course Code	
5220S	
3. Semester / Year	
Fifth year	
4. Description Preparation Date	
2025	
5. Available Attendance Forms	
Theoretical and practical	
6. Number of Credit Hours (Total) / Number of Units (Total)	
30 theoretical + 180 practical	
7. Course administrator's name (mention all, if more than one name)	
Name: م.د. مرتضى محمد باقر	
8. Course Objectives	
Course objective	Course objectives <ul style="list-style-type: none">○ Preparing the student at a high level of science with regard to oral and maxillofacial surgery, especially benign and malignant tumors, orthodontic surgery, maxillofacial injuries and dental implants. Cognitive goals <ul style="list-style-type: none">○ Acquire basic knowledge of oral and maxillofacial surgery.○ Gain basic knowledge about dental implants The skills objectives of the course <ul style="list-style-type: none">○ Surgical diagnostic training○ Methods of tooth extraction and oral surgery○ Training in minor dental surgeries
9. Teaching and Learning Strategies	
Strategy	<ul style="list-style-type: none">○ Giving lectures through display screens and PowerPoint○ Preparing seminars by students under the supervision of professors.○ Dental extraction clinics, minor operations and surgical diagnosis

10.Course Structure

Wee k	Hou rs	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	1	Orofacial pain	Oral Surgery	A theoretical lecture using power point	Short, semester, half-year and final exams
2	1	Preliminary management of patients with facial fractures	Oral Surgery	A theoretical lecture using power point	Short, semester, half-year and final exams
3	1	Fractures of the mandible	Oral Surgery	A theoretical lecture using power point	Short, semester, half-year and final exams
4	1	Fractures of the mandible Mandibular fractures that require special consideration	Oral Surgery	A theoretical lecture using power point	Short, semester, half-year and final exams
5	1	Fractures of the middle third of facial skeleton	Oral Surgery	A theoretical lecture using power point	Short, semester, half-year and final exams
6	1	Fractures of the middle third of facial skeleton □ Classification, clinical presentation imaging and 1141 treatment	Oral Surgery	A theoretical lecture using power point	Short, semester, half-year and final exams
7	1	Dentoalveolar and soft tissue injuries	Oral Surgery	A theoretical lecture using power point	Short, semester, half-year and final exams
8	1	Preprosthetic surgery	Oral Surgery	A theoretical lecture using power point	Short, semester, half-year and final exams
9	1	Preprosthetic surgery □ Soft tissue procedures	Oral Surgery	A theoretical lecture using power point	Short, semester, half-year and final exams

10	1	Potentially malignant disorders of the oral mucosa	Oral Surgery	A theoretical lecture using power point	Short, semester, half-year and final exams
11	1	Odontogenic diseases of the maxillary sinus	Oral Surgery	A theoretical lecture using power point	Short, semester, half-year and final exams
12	1	Benign cystic lesions of the oral cavity	Oral Surgery	A theoretical lecture using power point	Short, semester, half-year and final exams
13	1	Odontogenic tumors	Oral Surgery	A theoretical lecture using power point	Short, semester, half-year and final exams
14	1	Non-odontogenic tumors and fibro-osseous lesions of the jaw	Oral Surgery	A theoretical lecture using power point	Short, semester, half-year and final exams
15	1	Oral cancer	Oral Surgery	A theoretical lecture using power point	Short, semester, half-year and final exams
16	1	Oral cancer □ Management of the neck□	Oral Surgery	A theoretical lecture using power point	Short, semester, half-year and final exams
17	1	Implant Treatment: Advanced Concepts □ Immediate post-extraction implants	Oral Surgery	A theoretical lecture using power point	Short, semester, half-year and final exams
18	1	Implant Treatment: Advanced Concepts □ Inferior alveolar nerve lateralization	Oral Surgery	A theoretical lecture using power point	Short, semester, half-year and final exams
19	1	Salivary gland diseases	Oral Surgery	A theoretical lecture using power point	Short, semester, half-year and final exams

20	1	Salivary gland diseases Autoimmune conditions: Sjögren ,syndrome Immunoglobulin G4-related salivary gland disease □	Oral Surgery	A theoretical lecture using power point	Short, semester, half-year and final exams
21	1	Temporomandibular joint (TMJ) disorders	Oral Surgery	A theoretical lecture using power point	Short, semester, half-year and final exams
22	1	Temporomandibular joint (TMJ) disorders	Oral Surgery	A theoretical lecture using power point	Short, semester, half-year and final exams
23	1	Orthognathic surgery	Oral Surgery	A theoretical lecture using power point	Short, semester, half-year and final exams
24	1	Orthognathic surgery □ Mock surgery and fabrication of splints	Oral Surgery	A theoretical lecture using power point	Short, semester, half-year and final exams
25	1	Cleft lip and palate	Oral Surgery	A theoretical lecture using power point	Short, semester, half-year and final exams
26	1	Cleft lip and palate □ Management; Surgical procedures of ,cleft palate complications	Oral Surgery	A theoretical lecture using power point	Short, semester, half-year and final exams
27	1	Laser and Cryosurgery in oral and maxillofacial surgery	Oral Surgery	A theoretical lecture using power point	Short, semester, half-year and final exams
28	1	Vascular anomalies	Oral Surgery	A theoretical lecture using power point	Short, semester, half-year and final exams
29	1	Principles of reconstructive surgery of defects of the jaws	Oral Surgery	A theoretical lecture using power point	Short, semester, half-year and final exams

30	1	Principles of reconstructive surgery of defects of the Jaws <input type="checkbox"/> Maxillary reconstruction	Oral Surgery	A theoretical lecture using power point	Short, semester, half-year and final exams
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11. Course evaluation

- Daily exam scores
- Semester Exams
- Daily attendance and participation in scientific questions/activity
- And the final exam

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	<ul style="list-style-type: none"> ○ Lectures summarizing the important topics.
Main references	<ul style="list-style-type: none"> ○ Contemporary oral and maxillofacial surgery 7th edition 2019 (Elsevier) Perry M, Brown A, Banks P (2015). Fractures of ○ The Facial Skeleton, second edition. Wiley Blackwell Perry M, Brown A, Banks P (2015).

Conservative (Endo)

Course Description

1. Course Name	
Conservative (Endo)	
2. Course Code	
519CV	
3. Semester / Year	
Fifth year	
4. Description Preparation Date	
2025	
5. Available Attendance Forms	
Theoretical and practical	
6. Number of Credit Hours (Total) / Number of Units (Total)	
30 theoretical + 180 practical	
7. Course administrator's name (mention all, if more than one name)	
Name: ا.م.د. بسام كريم حمد م.م. زهراء صاحب مزعل	
8. Course Objectives	
Course objective	<p>Course objectives</p> <ul style="list-style-type: none">○ Students are clinically trained in the specialty of restorative dentistry (fillings / root fillings / crowns and bridges) and laboratory training in root canal fillings. Students are also subjected to clinical training on patients in the dental clinic under the supervision of specialized professors. Students are also trained to identify and deal with tools They are used in restorative dentistry and provide them with adequate knowledge of the basic principles of making dental cavities and filling them with different metallic and optical fillings. Teaching students practical steps for making fillings for dental roots. They are trained in the processes of preparing fixed dental crowns and bridges, replacing missing teeth, and training students to assess their mistakes and improve their skills. <p>Cognitive goals</p> <ul style="list-style-type: none">○ Training the student on how to examine and diagnose disease states.○ Focusing on the clinical steps of treating tooth decay and the use of various dental fillings○ Students acquire clinical skills by enabling them to make root canal fillings for patients in clinics○ Understand how to use root canal tools and regular dental fillings <p>The skills objectives of the course</p>

	<ul style="list-style-type: none"> ○ Students acquire the skills of using various dental root restoration tools and fillings.
9. Teaching and Learning Strategies	
Strategy	<ul style="list-style-type: none"> ○ Giving scientific and theoretical lectures through display screens and PowerPoint and watching educational films. ○ Practical application to patients ○ Educational films

10. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	1	Endodontic diagnosis	Conservative	A theoretical lecture using power point	Short, semester, half-year and final exams
2	1	Pain control in Endodontics	Conservative	A theoretical lecture using power point	Short, semester, half-year and final exams
3	1	Endodontic radiography	Conservative	A theoretical lecture using power point	Short, semester, half-year and final exams
4	1	Working length Determination	Conservative	A theoretical lecture using power point	Short, semester, half-year and final exams
5 & 6	1	Microbiology	Conservative	A theoretical lecture using power point	Short, semester, half-year and final exams
7 & 8	1	Intracanal instruments	Conservative	A theoretical lecture using power point	Short, semester, half-year and final exams
9 & 10	1	Obturation of the root canal system	Conservative	A theoretical lecture using power point	Short, semester, half-year and final exams

12	1	Endodontic Emergency Treatment	Conservative	A theoretical lecture using power point	Short, semester, half-year and final exams
13	1	Restoration of Endodontic ally Treated Teeth	Conservative	A theoretical lecture using power point	Short, semester, half-year and final exams
14& 15	1	Endodontic-Periodontal Relations	Conservative	A theoretical lecture using power point	Short, semester, half-year and final exams
16	1	Tooth discoloration and bleaching.	Conservative	A theoretical lecture using power point	Short, semester, half-year and final exams
17	1	Terminology, definition of fixed partial denture , Effect of Tooth Loss, Comparism with R.P.D	Conservative	A theoretical lecture using power point	Short, semester, half-year and final exams
18 & 19	1	Types of Fixed Bridge including Basic Bridge Design	Conservative	A theoretical lecture using power point	Short, semester, half-year and final exams
20	1	Components of Fixed ;Bridge -----Retainers Pontics----- --Connectors.-	Conservative	A theoretical lecture using power point	Short, semester, half-year and final exams
21	1	Clinical • Consideration for -.Bridge Construction Abutment _ Tooth(evaluation and selection) .Crown/Root Ratio _ .Splinting of teeth _ Patient Occlusal _ .Status General Factors.	Conservative	A theoretical lecture using power point	Short, semester, half-year and final exams
22	1	Clinical • Situations affecting ;Bridge Design (Post. Tilted	Conservative	A theoretical lecture using power point	Short, semester, half-year and

		Abutments, Span Length, Pier Abut., Arch Curvature)			final exams
23	1	Resin bonded bridge	Conservative	A theoretical lecture using power point	Short, semester, half-year and final exams
24	1	Diagnosis And • .Treatment Plan a. Intra-oral .Examination b. X-Rays .Examination c. Diagnostic Cast Examination. Gingival retraction and impression(techniques)	Conservative	A theoretical lecture using power point	Short, semester, half-year and final exams
25	1	Gingival retraction and impression(techniques) and impression • disinfection	Conservative	A theoretical lecture using power point	Short, semester, half-year and final exams
26	1	provisional Restoration , Oclusion and Aesthetics Principles of) occlusion occlusal plane, Anterior Bite Registration guidance , and Articulation	Conservative	A theoretical lecture using power point	Short, semester, half-year and final exams
27	1	Try-in and • Shade Selection (Colour dimensions • Hue, Chroma,and Value).	Conservative	A theoretical lecture using power point	Short, semester, half-year and final exams
28	1	• Final Cementation of F.P.Ds.(Techniques)	Conservative	A theoretical lecture using power point	Short, semester, half-year and final exams
29	1	• Failure in Fixed Prosthodontics	Conservative	A theoretical lecture using power point	Short, semester, half-year and

					final exams
30	1	<ul style="list-style-type: none"> • Porcelain in Fixed Prosthodontics (Current Ceramic) 	Conservative	A theoretical lecture using power point	Short, semester, half-year and final exams

11. Course evaluation

- Theoretical exams
- Practical exams
- Evaluation of treatment methods for patients in clinical clinics
- Oral exams
- Quick Exams

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)

- Lectures summarizing the important topics.

Main references

- Cohen's Pathways of the Dental Pulp. 12th ed. Louis H. Berman and Kenneth M. Hargreaves Endodontic Lect.
- Fundamentals of Fixed Prosthodontics, 2012, Quintessence Pub. SHILLINGBURG, H. T. & SATHER, D. A.
- Contemporary Fixed Prosthodontics, 2016. Elsevier. ROSENSTIEL, S. F., LAND, M. F. Crown and bridge Lect & FUJIMOTO, J

Periodontology

Course Description

1. Course Name	
Periodontology	
2. Course Code	
528PT	
3. Semester / Year	
Fifth year	
4. Description Preparation Date	
2025	
5. Available Attendance Forms	
Theoretical and practical	
6. Number of Credit Hours (Total) / Number of Units (Total)	
30 theoretical + 90 practical	
7. Course administrator's name (mention all, if more than one name)	
Name: م.م ابتهال عطية حبيب	
8. Course Objectives	
	<p>Course objective</p> <ul style="list-style-type: none">○ The main objective of the branch is to increase health awareness of oral and dental health among citizens by preparing a health cadre of students who will perform this role after their graduation and serve them in health centers spread throughout Iraq○ The teaching aspect by giving lectures and holding scientific symposia and performing advanced surgical operations for the purpose of training students on that○ The curative and preventive aspect, as the branch currently covers all disease cases related to periodontal diseases and those around the teeth referred to the college, in addition to the preventive aspect related to this subject. <p>Cognitive goals</p> <ul style="list-style-type: none">○ Formulating information in a way that enables students to understand and increase knowledge regarding the diagnosis and treatment of various gum diseases○ Giving students instructions for oral and dental care for patients visiting the College of Dentistry <p>The skills objectives of the course</p> <ul style="list-style-type: none">○ Training students to remove plaque from teeth○ Instructions for oral health care.

9. Teaching and Learning Strategies

Strategy	<ul style="list-style-type: none"> ○ Giving scientific and theoretical lectures through displays, power points, and slides.
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10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	1	Periodontal examination and diagnosis	Periodontology	A theoretical lecture using power point	Short, semester, half-year and final exams
2	1	Radiographic aids in the diagnosis of periodontal disease	Periodontology	A theoretical lecture using power point	Short, semester, half-year and final exams
3	1	Advanced diagnosis	Periodontology	A theoretical lecture using power point	Short, semester, half-year and final exams
4	1	Periodontal response to external forces	Periodontology	A theoretical lecture using power point	Short, semester, half-year and final exams
5	1	Immunology	Periodontology	A theoretical lecture using power point	Short, semester, half-year and final exams
6	1	Immunology - Adaptive immunity	Periodontology	A theoretical lecture using power point	Short, semester, half-year and final exams
7	1	Tooth mobility	Periodontology	A theoretical lecture using power point	Short, semester, half-year and final exams
8	1	Epidemiology of periodontal diseases	Periodontology	A theoretical lecture using power point	Short, semester, half-year and final exams

9	1	Determination of prognosis	Periodontology	A theoretical lecture using power point	Short, semester, half-year and final exams
10	1	Interrelationships of periodontal disease and therapy with other dental disciplines Restorative interrelationships	Periodontology	A theoretical lecture using power point	Short, semester, half-year and final exams
11	1	Periodontal surgery. General principles	Periodontology	A theoretical lecture using power point	Short, semester, half-year and final exams
12	1	Sonic and ultrasonic instrumentation and irrigation	Periodontology	A theoretical lecture using power point	Short, semester, half-year and final exams
13	1	Gingivectomy and local excision	Periodontology	A theoretical lecture using power point	Short, semester, half-year and final exams
14	1	Flap surgery	Periodontology	A theoretical lecture using power point	Short, semester, half-year and final exams
15	1	Mucogingival and aesthetic surgery	Periodontology	A theoretical lecture using power point	Short, semester, half-year and final exams
16	1	Furcation: involvement and treatment	Periodontology	A theoretical lecture using power point	Short, semester, half-year and final exams
17	1	Laser therapy	Periodontology	A theoretical lecture using power point	Short, semester, half-year and final exams
18	1	Locally delivered, controlled-release antimicrobials Objectives - - Types:	Periodontology	A theoretical lecture using power point	Short, semester, half-year and final exams

19	1	Management of medically compromised patients Cardiovascular diseases:	Periodontology	A theoretical lecture using power point	Short, semester, half-year and final exams
20	1	Management of medically compromised patients - Endocrine/metabolic disorders:	Periodontology	A theoretical lecture using power point	Short, semester, half-year and final exams
21	1	Gingival crevicular fluid (GCF)	Periodontology	A theoretical lecture using power point	Short, semester, half-year and final exams
22	1	Dentin hypersensitivity 605.e1	Periodontology	A theoretical lecture using power point	Short, semester, half-year and final exams
23	1	Tissue regeneration. General principles Periodontal Wound Healing	Periodontology	A theoretical lecture using power point	Short, semester, half-year and final exams
24	1	Regenerative periodontal therapy	Periodontology	A theoretical lecture using power point	Short, semester, half-year and final exams
25	1	Reconstructive surgical techniques:	Periodontology	A theoretical lecture using power point	Short, semester, half-year and final exams
26	1	Advanced regenerative approaches	Periodontology	A theoretical lecture using power point	Short, semester, half-year and final exams
27	1	Oral implantology Peri-implant anatomy and Peri-implant diseases classification	Periodontology	A theoretical lecture using power point	Short, semester, half-year and final exams
28	1	Oral implantology Implant-related complications and failure	Periodontology	A theoretical lecture using power point	Short, semester, half-year and final exams

29	1	Oral implant ology Supportive implant treatment	Periodontology	A theoretical lecture using power point	Short, semester, half-year and final exams
30	1	Oral implant ology Supportive implant treatment - Rationale for supportive implant treatment - Examination of implants o Peri-implant probing o Microbial testing o Stability measures o Implant percussion	Periodontology	A theoretical lecture using power point	Short, semester, half-year and final exams

11. Course evaluation

- o Daily exam scores
- o Semester Exams
- o Daily attendance and participation in scientific questions/activity

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	<ul style="list-style-type: none"> o Lectures summarizing the important topics.
Main references	<ul style="list-style-type: none"> o Clinical Periodontology and Implant Dentistry, Seventh Edition, Niklaus P. Lang and Jan Lindhe o Newman and Carranza's Clinical Periodontology, Thirteen Edition