Ministry Of Higher Education and Scientific Research

Scientific Supervision and Evaluation Authority

Quality Assurance and Academic Accreditation Department

Accreditation Department

Guide Academic Program and Course Description

2024-2025

Academic Program Description Form

University Name: Tikrit University

Faculty/Institute: College of Dentistry

Scientific Department: oral diagnosis

Academic or Professional Program Name: oral diagnosis

Final Certificate Name: Bachelor of Dental Surgery

Academic System: Annual

Description Preparation Date: 15/9/2024

Signature:

Head of Department Name:

Assist.Prof.Dr. Mohammed Raheel

Date: 16/9/2024

Signature:

Scientific Associate Name:

lect. Lec. Dr. Ahmed Khalf Al-Juburi

Date: 18/9/2024

The file is checked by: Assist. Lec. Asma Noory Hameed

Department of Quality Assurance and University Performance

Director of the Quality Assurance and University Performance Department: Date:

Signature:

Approval of the Dean

Assist.Prof.Dr. Mohammed Raheel Ali

1. Program Vision

The College of Dentistry at Tikrit University seeks to be a leading global center in the field of dentistry, distinguished by providing distinguished education that keeps pace with the latest scientific and technological developments. The college also aims to prepare dentists capable of competing locally, regionally and internationally, by promoting innovation in scientific research and developing practical skills. The college aspires to be a scientific and service reference that contributes to improving oral and dental health at the community level, while adhering to the highest standards of academic and professional quality.

2. Program Mission

The College of Dentistry at Tikrit University is committed to achieving excellence and leadership in the field of dental education locally and regionally. The college seeks to prepare highly qualified dentists by providing innovative educational programs, based on the latest scientific and technological methods in education and training. The college also places scientific research at the forefront of its priorities, as it encourages faculty members and students to innovate and contribute to achieving knowledge that contributes to the development of the field of dentistry. In addition, the college pays great attention to serving the community, by providing specialized health care, contributing to spreading health awareness and enhancing cooperation with various health institutions. The college strives to achieve these goals with the highest standards of quality and professionalism, to become a leading center for medical education, scientific research and community service.

3. Program Objectives

1. Developing education, research and community service in the field of dentistry: The college seeks to achieve comprehensive integration between academic education, scientific research and community service, by preparing graduates with the scientific competence and practical skills required for professional practice.

2. Providing distinguished educational programs: The college aims to design and provide integrated educational programs that focus on applying the latest curricula

and therapeutic techniques in dentistry and working to provide students with an innovative educational experience, which qualifies them to practice the profession efficiently and professionally at the local, regional and international levels.

3. Promoting scientific research and innovation: The college seeks to support and encourage scientific research by providing a stimulating environment for research that allows faculty members and students to engage in advanced research projects. These projects include vital areas in dentistry with the aim of producing scientific research that leads to improving therapeutic practices and developing modern medical technologies.

4. Developing practical and clinical skills for students: The college aims to provide extensive practical training opportunities for students, combining clinical experiences in a realistic simulation environment and advanced therapeutic clinics. The focus is on developing manual and scientific skills that enable students to deal with healthcare challenges in the field of dentistry efficiently.

5. Enhancing communication and partnership with the community: The college is committed to building strong bridges with the local community and health and professional institutions, with the aim of providing specialized health services and spreading health awareness about the importance of prevention and health care in the field of dentistry. This is done through community programs and educational activities that include all segments of society.

6. Developing human capabilities and resources: The college aims to invest in developing the capabilities of faculty members and administrative staff by providing continuous training programs aimed at enhancing their academic and administrative skills. The college also seeks to create a work environment that supports creativity and innovation and provides the necessary resources to achieve this.

7. Enhancing quality standards and academic excellence: The college seeks to achieve academic leadership by continuously improving the standards of education, research, and community service. It also aims to obtain international accreditation and recognition of its programs at the local, regional, and international levels, by adopting the latest academic and research quality standards.

4. **Program Accreditation**
None

5. **Other External Influences**
1. Technological Developments in Dentistry **2**. Cooperation with International Academic Institutions **3.** International Conferences and Workshops **4.** Funding and Scientific Research **5.** Interaction with the Local Community **6**. Academic Competition between Colleges **7.** Graduate Support

6. **Program Structure**

Program Structure	Number of courses	Study unit	percentage	comments *
Institutional Requirements	**7**	**14**	**6**	
College Requirements	**40**	**214**	**94**	
Department Requirements				
Summer training	**8**			Summer training degree within the annual pursuit degree for clinical courses
Other				

7. Program Description

Year/ Level	Course code	Course name	Units	Credit hours	
				Theoretical	Practical
First	**HAN141**	General Anatomy	**4**	**1**	**2**
	DAN162	Dental Anatomy	**6**	**2**	**2**
	BIO163	Biology	**6**	**2**	**2**
	MCH164	Medical Chemistry	**6**	**2**	**2**
	COP125	Computer Science	**2**	**1**	**0**
	MPH166	Medical Physics	**6**	**2**	**2**
	HRT127	Human Rights	**2**	**1**	**0**
	MDT128	Medical Terminology	**2**	**1**	**0**
Total			**34**		

Year/ Level	Course code	Course name	Units	Credit hours	
				Theoretical	Practical
Second	**GAN241**	General Anatomy	**4**	**1**	**2**
	PRO262	Prosthodontics	**6**	**1**	**4**
	DEM243	Dental materials	**4**	**1**	**2**
	GHS264	General Histology	**6**	**2**	**2**
	BCH265	Biochemistry	**6**	**2**	**2**
	OHE266	Oral Histology & Embryology	**6**	**2**	**2**
	GPH267	General Physiology	**6**	**2**	**2**
	COP228	Computer Science	**2**	**1**	**0**
Total			**40**		

Year/ Level	Course code	Course name	Units	Credit hours	
				Theoretical	Practical
Third	**GPT361**	General Pathology	**6**	**2**	**2**
	POD342	Preclinical Operative Dentistry	**4**	**1**	**2**
	PFP343	Preclinical Fixed Prosthodontics	**4**	**1**	**2**
	MCB364	Microbiology	**6**	**2**	**2**
	CMD345	Community Dentistry	**4**	**1**	**2**
	OSR346	Oral Surgery	**4**	**1**	**2**
	DRD347	Dental Radiology	**4**	**1**	**2**
	PHC368	Pharmacology	**6**	**2**	**2**
	PRO349	Prosthodontics	**4**	**1**	**2**
	DET3210	Dental ethics	**2**	**1**	**0**
Total			**44**		

Year/ Level	Course code	Course name	Units	Credit hours	
				Theoretical	Practical
Fourth	**OSR461**	Oral Surgery	**6**	**1**	**4**
	PER452	Periodontics	**5**	**1**	**3**
	GSR443	General Surgery	**2**	**1**	**0**
	GMD444	General Medicine	**2**	**1**	**0**
	PRO455	Prosthodontics	**5**	**1**	**3**
	ORT466	0rthodontics	**6**	**1**	**4**
	OPT467	Oral Pathology	**6**	**2**	**2**
	CND488	Conservative Dentistry	**8**	**1**	**6**
	PED449	Pediatric Dentistry	**4**	**1**	**2**
Total			**44**		

Year/ Level	Course code	Course name	Units	Credit hours	
				Theoretical	Practical
Fifth	**ORS581**	Oral Surgery	**8**	**1**	**6**
	PER552	Periodontics	**5**	**1**	**3**
	OMD563	Oral Medicine	**6**	**1**	**4**
	PVD554	Preventive Dentistry	**5**	**1**	**3**
	PRO585	Prosthodontics	**8**	**1**	**6**
	ORT566	0rthodontics	**6**	**1**	**4**
	PED557	Pediatric Dentistry	**5**	**1**	**3**
	CND588	Conservative Dentistry	**8**	**1**	**6**
	RSP529	Research project	**2**	**1**	**0**
Total			**53**		

8. Expected Learning Outcomes of The Program

Knowledge

1. **Understanding Basic Medical Sciences:** Mastering sciences such as anatomy, physiology, microbiology, pharmacology, oral histology, general histology and understanding their relationship to oral health
2. **Diagnosis and Treatment of Oral Diseases:** Gaining extensive knowledge of oral and dental diseases and applying them in the diagnosis and management of clinical cases and understanding preventive roles of oral and dental diseases to protect oral health.
3. **Modern Technology in Dentistry:** Familiarity with advanced techniques such as lasers and digital imaging and how to integrate them into clinical practice.
4. **Principles of Scientific Research:** Understanding the foundations of scientific research and designing studies to collect and analyze data

Skills

1- **Practical and Clinical Skills:** Mastering the performance of various oral and dental treatments such as fillings, surgical practices, and others within the specialty.

2- **Critical Thinking and Problem Solving:** Analyzing clinical data and using critical thinking to diagnose complex cases. In addition developing communication skills with patients and coworkers to reach the definitive diagnosis and treatment planing.

3- **Time and Resource Management:** Learn how to manage time and resources to ensure the provision of high-quality care.

4- **Using modern technology:** Acquiring skills in using advanced devices to support diagnosis and treatment.

Values

1. **Professional ethics:** Commitment to the principles of medical ethics and respect for patients' rights.

2. **Social and professional responsibility:** Enhancing the role of the dentist in improving public health and participating in awareness campaigns.

3. **Lifelong learning:** Commitment to continuous education and following up on new research to ensure keeping pace with scientific progress.

4. **Professionalism and integrity:** Working professionally and honestly and adhering to quality standards with continuously striving to improve the quality of health care provided by using best practices.

9. Teaching And Learning Strategies

1. The method of giving lectures by explaining and clarifying and using PowerPoint.
2. Encouraging students to use the library as one of the learning methods.
3. The method of self-learning by supporting the learner's environment.
4. Encouraging students to use the Internet as a means of supporting learning.
5. Using the principle of discussion and dialogue to increase students' comprehension.
6. Applying education through the practical part of the course.

10. Evaluation Methods

1. Daily, semester, semi-annual and final theoretical tests.
2. Practical tests
3. Scientific discussion during the theoretical lesson and during the practical part of the course
4. Clinical and laboratory practical requirements

11- Faculty

No.	Name	General Specialization	Subspecialty	
1	Prof. Dr. Haitham Younis Mohammed	Dentistry	Operative dentistry	Staff
2	Prof. Dr. Intesar Jasim Mohammed	Dentistry	Oral Histology and Biology	Staff
3	Prof. Dr. Ali Ghanim Abdullah	Dentistry	Anatomy & histology	Staff
4	Prof. Dr. Sheelan Akbar Anwar	Microbiology	Parasitology	Staff
5	Prof. Dr. Hadeel Mizher Younis	Microbiology	Medical microbiology	Staff
6	Prof. Dr. Eentedhar Rafat	Chemistry	Biochemistry	Staff
7	Prof. Dr. Mahdi Salh Hamad Hassan	Chemistry	Biochemistry	Staff
8	Prof. Dr. Huda Abbas Abdullah	Medicine and surgery of oral and dental	Aesthetic and restorative	Staff
9	Prof. Muthenna Sh. Rajab	Dentist	Laser application in dentistry/ conservative dentistry	Staff
10	Assis. Prof. Dr. Ban Ismael Sedeeq	Dentistry	Anatomy and histology	Staff
11	Assist. Prof. Dr. Mihammed Rhael Ali	B. D. S	Maxillofacial surgery	Staff
12	Ass. Prof. Dr. Chateen Izaddin Ali Pambuk	Microbiology	Medical Microbiology and Immunology	Staff

13	Assist. Prof. Dr. Salim Jasim Khalaf	veterinary medicine and surgery	Clinical biochemistry	Staff
14	Assist. Prof. Dr. Takea shaker Ahmed	Biology	Physiology	Staff
15	Assist. Prof. Dr. Yasir Khalaf Mohammad	Physics	Radiotin physics in medicine	Staff
16	Assist. Prof. Dr. Shaimaa Essa Ahmed	Chemistry Science	Ph D in Biochemistry	Staff
17	Assist Prof. Dr. Mahmood Nawfal Mustafa	Biology	Histology and Embryology	Staff
18	Assist prof. Dr. Shaymaa Abdalkader Mahdi	Biology	General Histology	Staff
19	Ass. Prof. Dr.Waseem Ali Hasan	Bachelor in Vet. Medicine and Surgery	Medical Pharmacology	Staff
20	Ass. Prof. Muhammed Ibrahem Hazeem	dentistry	Periodontics and Periodontics	Staff
21	Assist Prof. Jamal Khidher Mahmoad	Dentistry	Orthodontic dentistry	Staff
22	Assesst. Prof. Sulafa Khair al-Deen Banoosh	Bachelor of Dental Surgery	Oral physiology	Staff
23	Assist. Prof. Azhar Ammash Hussein	Oral and dental medicine and surgery	Preventive dentistry	Staff
24	Assist. Prop. Maha Essam Abdulazeez	Dentist	Orthodontis	Staff
25	Assisst. Prof. Omar Basheer Taha	Dentistry	Oral and Maxillofacial Radiology	Staff
26	Assist. Prof. Anas Qahtan Hamdi	B.D. S	M.Sc. Orthodontics	Staff
27	Assist. Prof. Muna Ahmed Abdullah	BIOLOGY Sciences	Molecular Biology with Biotechnology	Staff
28	Assist. Prof. Sinai Najy Muhsin	Microbiology	Parasitology	Staff
29	Assist. Prof. Nagham Hasan Ali Ahmed	Biology	Physiology	Staff
30	Lec. Dr. Hadeel Mohammed Abbood	Dentistry	Periodontics	Staff
31	Lec. Dr. Aziz Ghanim Aziz	Dentistry	Prosthodontics	Staff
32	Lec. Dr. Wijdan Thamer Shatub	Biology	Microbiology	Staff
33	Lec. Dr. Ahmed Khalf Al-juburi	Dentistry	Operative dentistry	Staff

34	Lec. Dr. Safwan A. Sulaiman	Dental Surgeon	Prosthodontics	Staff
35	Lec. Dr. Tamara Afif Anai	Computer science	Artificial Intelligence	Staff
36	Lec. Dr. Raghad Tahseen Thanoon	Biology	Physiology	Staff
37	Lec. Dr. Mohamad Hassn Khadir Mudaris	Fundamentals of religion	Beliefs	Staff
38	Lec. Dr. Siraj Awad Abdullah Matar	Administration and economics	Production and operations management	Staff
39	Lec. Reem Ahmed Shihab Shaker	Oral and dental medicine and surgery	Prosthodontics	Staff
40	Lec. Aseel Taha Khaudhair	Dentistry	Pediatric dentist	Staff
41	Lec. Noor Sabah Irhayyim	Dentistry	Periodontology	Staff
42	Lec. Suha Aswad Dahash	Dentistry	Periodontology	Staff
43	Lec. Saif Saad Kamil	Bachelor of dental science	Operative dentistry	Staff
44	Lec. Hind Thyab Hamid	Dentist	Dentist specializing in preventive dentistry	Staff
45	Lec. Fatma Mustafa Mohammad	Biology	Immunophysiology	Staff
46	Lec. Montaser Hassan Mohamed	Business administration	Organizational behavior	Staff
47	Lec. Ghadeer Hatem Mohammed Ali	Pharmacy	Oral and dental medications	Staff
48	Lec. Luma Nasrat Arab	Oral and dental surgery	Prosthodontics	Staff
49	Assist. lec. Areej Salim Dawood	Dentist	Oral histology	Staff
50	Assist. Lec. Sohaib Qais Alwan	Dentistry	Preventive Dentistry	Staff
51	Assist. Lec. Fatima Ghazi Aswad	Oral and dental medicine and surgery	Oral and maxillofacial pathology	Staff
52	Assist. lec. Saber mizher mohammed	Oral surgery	Oral surgery	Staff
53	Assist. Lec. Ahmed AbdulKareem Mahmood	Dentistry	Oral and maxillofacial surgery	Staff
54	Assist. Lec. Nusaiba Mustafa Muhammed	Dentistry	Prosthodontics	Staff

55	Assist. Lec. Ali Saad Ahmed	Dentist	Prosthodontics	Staff
56	Assist. Lec. Alalaa Jamal Mawlood	General dentistry	Operative dentistry	Staff
57	Assist. Lec. Rusal Saad Ahmed	Bachelor of Oral and Dental Medicine and Surgery	Master's degree in pediatric dentistry	Staff
58	Assist. Lec. Ahmed Amer Ibrahim	Dentistry	Oral and maxillofacial surgery and implantology	Staff
59	Ass. Lec. Halla Thamer Zidane Al-Amin	Dentist	Orthodontist	Staff
60	Assis. Lec. Noor Ghazi Saab	Dentistry	General Anatomy and histology	Staff
61	Assist. Lec. Mohammed Ayad Taha	Dentistry	Operative and Esthetic Dentistry.	Staff
62	Assist. Lec. Farah Mohammed Najeeb	BDS	Pharmacology	Staff
63	Ass. Lec Heba Hani Raheem	Computer science	Computer science	Staff
64	Ass. Lec. Muthana Khudair Arhaim Ibrahim	Administration and Economics	Human Resources Management Business	Staff
65	Assist. Lec. Shms Aldeen Saad Mohsen	Computer science	Computer science	Staff
66	Ass. Lec. Mohammed Issa Hamid Saleh	Arabic Language Literature	Abbasid Literature	Staff
67	Ass. Lec. Noor Aldeen Shams Abdul	Media	Radio and Television	Staff
68	Assist. Lec. Yousif Faris Attia	Business Administration	Strategic management	Staff
69	Assist. Lec. Reem Awad Shaban	English language	Method of English language	Staff
70	Assist. Lec. Tariq Khalistan abed	General Veterinary Surgery	General pathology	Staff
71	Assist. Lec. Thamer Mahmood Mohammed	Laser and Optoelectronic Engineering	Laser Engineering	Staff
72	Assist. Lec. Sura Mustafa Qasim	Microbiology	Master microbiology _immunity	Staff
73	Ass. Lec. Ranen ibraheem abdullah Mohammed	Biology Sciences	Mycology Scientific	Staff

74	Assist. Lec. Rusul Jassim Mohammed	English Language	Methodology	Staff
75	Assist. Lec. Shatha Nasih Tawfeeq	Biology	Zoology	Staff
76	Asis. Lec. Riyam Ameen Salih	Biology	Histology	Staff
77	Assist. Lec. Yasser Ahmed Khalaf	Political science	Political organization	Staff
78	Assist. Lec. Ossama Muhammed Abd	Management and Economics	business management	Staff
79	Assist. Lec. Asmaa Nouri Hameed	Master's in administration and economics	Economic Sciences	Staff
80	Assist. Lec. Alyaa Ali Hameed	Electrical Engineering	Communication	Staff
81	Assist. Prof. Zaid Ali Ahmed	Management and Economics	Economics	Staff
82	Assist. Lec. Raghda Awad Shaban	Computer Science	Artificial Intelligence	Staff
83	Ass. Lec. Adnan Qahtan Shakur Majeed	Methods of Teaching	Islamic Education Curricula and Teaching Methods	Staff
84	Assist. Lec. Ibrahim Khader Hamoud	Arabic language	Andalusian literature	Staff
85	Assist. Lec. Omar Badr Abed	MEDIA	Radio and television	Staff
86	Assist. Lec. Marwah Malik Khalaf	Biology	Microbiology	Staff
87	Assist. Lec. Klara Majeed Shukur	Veterinary Medicine and Surgery	Microbiology	Staff
88	Assist. Lec. Manal Mohammed Alwan Al-Bardi	Biological	physiology	Staff
89	Assist. Lec. Abdulazeez Mohammed Hussein Ahmed	Veterinary Medicine and Surgery	Veterinary medical medicines	Staff

Professional Development

Orienting New Faculty Members

In the College of Dentistry, new faculty members are oriented by introducing them to the college's policies, curricula, and teaching techniques, in addition to providing continuous support to ensure their integration with the academic team and develop their educational capabilities. The orientation aims to enable them to provide high-quality education and guide students effectively.

Professional development for faculty members

The professional development of faculty members in the College of Dentistry focuses on enhancing their teaching and research skills through workshops, specialized courses inside and outside Iraq, and continuous training on the latest medical technologies and practices. This development aims to improve the quality of education and raise the level of health care provided.

12.Admission Criteria

A. Central admission according to the regulations of the Ministry of Higher Education and Scientific Research for the year of admission
B. The applicant must have a preparatory certificate in its scientific branch

13.The most important sources of information about the program

1. The website of the college and university
2. The prescribed textbooks and the electronic library.
3. The college guide

14. Program development plan

1. Updating the lecture content by deleting and adding no more than 22% with new information and developing the lecture content.
2. Using modern teaching methods according to the nature of the course.

Program Skills Chart

Required learning outcomes of the program															
Values				Skills				Knowledge				Essential or optional?	Course name	Course code	Year/Level
C4	C3	C2	C1	B4	B3	B2	B1	A4	A3	A2	A1				
				✓	✓	✓	✓		✓	✓	✓	essential	General Anatomy	**HAN141**	**The first**
				✓	✓	✓			✓	✓	✓	essential	Dental Anatomy	**DAN162**	
	✓					✓					✓	essential	Biology	**BIO163**	
			✓		✓	✓	✓				✓	essential	Medical Chemistry	**MCH164**	
					✓	✓		✓	✓			essential	Computer Science	**COP125**	
		✓	✓		✓	✓	✓			✓	✓	essential	Medical Physics	**MPH166**	
	✓	✓	✓									essential	Human Rights	**HRT127**	
		✓	✓			✓	✓			✓	✓	essential	Medical Terminology	**MDT128**	

.

Program Skills Chart															
Required learning outcomes of the program															
Values				**Skills**				**Knowledge**				**Essential or optional?**	**Course name**	**Course code**	**Year/Level**
C4	**C3**	**C2**	**C1**	**B4**	**B3**	**B2**	**B1**	**A4**	**A3**	**A2**	**A1**				
				✓	✓	✓	✓		✓	✓	✓	essential	General Anatomy	**GAN241**	**Second**
		✓	✓	✓		✓	✓		✓		✓	essential	Prosthodontics	**PRO262**	
		✓	✓	✓		✓	✓		✓		✓	essential	Dental materials	**DEM243**	
✓				✓	✓	✓	✓		✓	✓	✓	essential	General Histology	**GHS264**	
			✓		✓	✓	✓				✓	essential	Biochemistry	**BCH265**	
	✓	✓		✓				✓			✓	essential	Oral Histology & Embryology	**OHE266**	
				✓		✓			✓		✓	essential	General Physiology	**GPH267**	
					✓	✓		✓	✓			essential	Computer Science	**COP228**	

Program Skills Chart															
Required learning outcomes of the program															
Values				**Skills**				**Knowledge**				**Essential or optional?**	**Course name**	**Course code**	**Year/Level**
C4	**C3**	**C2**	**C1**	**B4**	**B3**	**B2**	**B1**	**A4**	**A3**	**A2**	**A1**				
								✓	✓	✓		essential	General Pathology	**GPT361**	**Third**
	✓				✓	✓	✓	✓	✓		✓		Preclinical Operative Dentistry	**POD342**	
	✓						✓	✓	✓		✓		Preclinical Fixed Prosthodontics	**PFP343**	
						✓	✓				✓	essential	Microbiology	**MCB364**	
	✓	✓	✓		✓	✓				✓			Community Dentistry	**CMD345**	
			✓		✓	✓	✓		✓	✓	✓		Oral Surgery	**OSR346**	
✓	✓	✓		✓	✓	✓		✓	✓				Dental Radiology	**DRD347**	
					✓		✓		✓	✓		essential	Pharmacology	**PHC368**	
✓	✓	✓	✓	✓		✓	✓		✓	✓			Prosthodontics	**PRO349**	
✓	✓	✓	✓	✓				✓				essential	Dental Ethics	**DNE3210**	

Program Skills Chart															
Required learning outcomes of the program															
Values				**Skills**				**Knowledge**				**Essential or optional?**	**Course name**	**Course code**	**Year/Level**
C4	**C3**	**C2**	**C1**	**B4**	**B3**	**B2**	**B1**	**A4**	**A3**	**A2**	**A1**				
			✓		✓	✓	✓	✓	✓	✓	✓	essential	Oral Surgery	**OSR461**	**Fourth**
	✓	✓		✓			✓		✓	✓	✓	essential	Periodontics	**PER452**	
			✓		✓	✓	✓		✓	✓	✓	essential	General Surgery	**GSR443**	
			✓		✓	✓	✓		✓	✓	✓	essential	General Medicine	**GMD444**	
		✓	✓	✓		✓	✓		✓		✓	essential	Prosthodontics	**PRO455**	
✓	✓			✓		✓				✓		essential	0rthodontics	**ORT466**	
✓	✓	✓		✓	✓	✓		✓		✓		essential	Oral Pathology	**OPT467**	
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		essential	Conservative Dentistry	**CND488**	
✓	✓		✓			✓	✓			✓	✓	essential	Pediatric Dentistry	**PED449**	

Program Skills Chart															
Required learning outcomes of the program															
Values				Skills				Knowledge				Essential or optional?	Course name	Course code	Year/Level
C4	C3	C2	C1	B4	B3	B2	B1	A4	A3	A2	A1				
		✓	✓	✓	✓	✓	✓			✓	✓	essential	Oral Surgery	**ORS581**	**Fifth**
	✓	✓				✓	✓	✓	✓	✓		essential	Periodontics	**PER552**	
✓	✓	✓	✓	✓		✓	✓	✓	✓	✓		essential	Oral Medicine	**OMD563**	
✓	✓	✓	✓	✓		✓	✓		✓	✓		essential	Preventive Dentistry	**PVD554**	
		✓	✓	✓		✓	✓		✓		✓	essential	Prosthodontics	**PRO585**	
✓	✓	✓	✓	✓		✓	✓			✓		essential	0rthodontics	**ORT566**	
✓	✓	✓				✓	✓			✓	✓	essential	Pediatric Dentistry	**PED557**	
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		essential	Conservative Dentistry	**CND588**	
✓	✓			✓	✓			✓				essential	Research project	**RSP529**	

Course Description Form

1. Course Name: human anatomy
2. Course Code: **GAN141**
3. Semester / Year: 2024-2025
4. Description Preparation Date: 15\9\2024
5. Available Attendance Forms:
Lectures & labs
6. Number of Credit Hours (Total) / Number of Units (Total)
30 theoretical + 60 practical = 90 Hrs/ 4 units
7. Course administrator's name (mention all, if more than one name)
Name: **Assis.Prof. Ban Ismael Sedeeq and Assis.Lec. Noor Ghazi Saab** Email: banasnan@tu.edu.iq ; noor.gsaab@tu.edu.iq
8. Course Objectives
Course Objectives 1- To provide the student with a knowledge skill about the basic concepts of anatomy 2- Providing the student with anatomical information regarding body systems and body organs , its shape, place and functions 3- Providing the student with a cognitive skill about skull and their bones
9. Teaching and Learning Strategies

11.	The method of giving lectures, explanation and clarification, Graphics, Power point, Video lectures Online Live Meetings 1. Giving lectures 2. Graphics 3. Power point 4. Video lectures

Course Evaluation					
Week	**Hours Theory**	**ILOs**	**Unit/Module or Topic Title**	**Teaching Method**	**Assessment Method**
1	1	Understand the concepts, basics and application	Introduction to Human Anatomy Descriptive Anatomic Terms	Presentation method with illustration and explanation on power point Video [you tube]	daily and monthly exam
2	1	Understand the concepts, basics and application	Basic Structures: Skin, Fasciae, Muscle, Joints, Ligament, Bursae	Presentation method with illustration and explanation on power point Video [you tube]	daily and monthly exam
3	2	Understand the concepts, basics and application	Basic Structures: Bone, Cartilage, Blood Vessels, Lymphatic System	Presentation method with illustration and explanation on power point Video [you tube	daily and monthly exam
4	1	Understand the concepts, basics and application	Basic Structures: Nervous System, Mucous Membranes, Serous Membranes	Presentation method with illustration and explanation on power point Video [you tube	daily and monthly exam
5	2	Understand the concepts, basics and application	Skeletal system of the body: Skull :Cranial Bones	Presentation method with illustration and explanation on power point Video [you tube	daily and monthly exam
6	2	Understand the concepts, basics and application	Skeletal system of the body: Skull : Facial Bones	Presentation method with illustration and explanation on power point Video [you tube	daily and monthly exam
7	2	Understand the concepts, basics and application	External Views of the Skull		
8	2	Understand the concepts, basics and application	• The Cranial Cavity • Major Foramina and	Presentation method with illustration and	daily and monthly exam

			Fissures locations and structures pass through • Neonatal Skull	explanation on power point Video [you tube	
		Understand the concepts, basics and application	الامتحان الفصلي		
9	2	Understand the concepts, basics and application	□ Skeleton of the Orbital Region, Openings into the Orbital Cavity □ Skeleton of the External Nose, nasal cavity, Paranasal Sinuses □ Auditory ossicles Hyoid bone	Presentation method with illustration and explanation on power point Video [you tube	daily and monthly exam
10	2	Understand the concepts, basics and application	The Vertebral Column	Presentation method with illustration and explanation on power point Video [you tube	daily and monthly exam
11	2	Understand the concepts, basics and application	□ Structure of the Thoracic Wall □ Joints of the Chest Wall □ Suprapleural Membrane □ Diaphragm □ Surface Anatomy	Presentation method with illustration and explanation on power point Video [you tube	daily and monthly exam
12	2	Understand the concepts, basics and application	Thoracic cavity: Mediastinum, Pleurae, Trachea, Bronchi, Lungs	Presentation method with illustration and explanation on power point Video [you tube	daily and monthly exam
13	3	Understand the concepts, basics and application	Pericardium, Heart, Large arteries, veins and nerves of thorax	Presentation method with illustration and explanation on power point Video [you tube	daily and monthly exam
14	2	Understand the concepts, basics and application	□ Bones of the Shoulder (Pectoral girdle) girdles □ Bones of the Upper extremities	Presentation method with illustration and explanation on power point Video [you tube	daily and monthly exam

15	2	Understand the concepts, basics and application	□ Bones of the Pelvic girdle □ Bones of the Lower extremities	Presentation method with illustration and explanation on power point Video [you tube	daily and monthly exam
16	2	Understand the concepts, basics and application	Abdominal cavity and organs	Presentation method with illustration and explanation on power point Video [you tube	daily and monthly exam
10. Course Structure: Laboratory sessions			الامتحان النهائي		
Week	Hours	ILOs	Title of the sessions	Teaching Method	Assessment Method
1	2h	Understand the concepts, basics and application	Introduction to anatomy	Presentation method with illustration and explanation on modules Video [you tube]	Practical exam
2	2h	Understand the concepts, basics and application	Basic structures part 1 (Skin, Fasciae, Muscle, Joints, Ligament, Bursae)	Presentation method with illustration and explanation on modules Video [you tube]	Practical exam
3	2h	Understand the concepts, basics and application	Basic structures part 2 (bone,Cartilage, Blood Vessels, Lymphatic System) and classification of human skeleton	Presentation method with illustration and explanation on modules Video [you tube]	Practical exam
4	2h	Understand the concepts, basics and application	Basic structures part 3(Nervous System,	Presentation method with illustration and	Practical exam

			Mucous Membranes, Serous Membranes)	explanation on power point Video [you tube]	
5	2h	Understand the concepts, basics and application	Frontal Bone, Parietal bones	Presentation method with illustration and explanation on modules Video [you tube]	Practical exam
6	2h	Understand the concepts, basics and application	Occipital bone	Presentation method with illustration and explanation on modules Video [you tube]	Practical exam
7	2h	Understand the concepts, basics and application	Temporal bones	Presentation method with illustration and explanation on modules Video [you tube]	Practical exam
8	2h	Understand the concepts, basics and application	Sphenoid bone	Presentation method with illustration and explanation on modules Video [you tube]	Practical exam
9	2h	Understand the concepts, basics and application	Ethmoid bone	Presentation method with illustration and explanation on modules Video [you tube]	Practical exam
10	2h	Understand the concepts, basics and application	Zygomatic bones,Maxillae	Presentation method with illustration and explanation on modules Video [you tube]	Practical exam
11	2h	Understand the concepts, basics and application	Nasal bones ,Lacrimal bones, Vomer,Palatine bones,Inferior conchae	Presentation method with illustration and explanation on	Practical exam

				modules Video [you tube]	
12	2h	Understand the concepts, basics and application	Mandible	Presentation method with illustration and explanation on modules Video [you tube]	Practical exam
13	2h	Understand the concepts, basics and application	External Views of the Skull	Presentation method with illustration and explanation on modules Video [you tube]	Practical exam
14	2h	Understand the concepts, basics and application	Cranial cavity	Presentation method with illustration and explanation on modules Video [you tube]	Practical exam
15	2h	Understand the concepts, basics and application	Major Foramina and Fissures locations and structures pass through the skull	Presentation method with illustration and explanation on modules Video [you tube]	Practical exam
16	2h	Understand the concepts, basics and application	Orbit	Presentation method with illustration and explanation on modules Video [you tube]	Practical exam
17	2h	Understand the concepts, basics and application	nasal cavity	Presentation method with illustration and explanation on modules Video [you tube]	Practical exam
18	2h	Understand the concepts, basics and application	Auditory ossicles , Hyoid bone	Presentation method with illustration and explanation on modules	Practical exam

				Video [you tube]	
19	2h	Understand the concepts, basics and application	General Characteristics of a Vertebra	Presentation method with illustration and explanation on modules Video [you tube]	Practical exam
20	2h	Understand the concepts, basics and application	Vertebral column	Presentation method with illustration and explanation on modules Video [you tube]	Practical exam
21	2h	Understand the concepts, basics and application	Structure of the Thoracic cage (Sternum ,Ribs, Costal Cartilages)	Presentation method with illustration and explanation on modules Video [you tube]	Practical exam
22	2h	Understand the concepts, basics and application	Thoracic cavity (Mediastinum, Pleurae, Trachea, Bronchi)	Presentation method with illustration and explanation on modules Video [you tube]	Practical exam
23	2h	Understand the concepts, basics and application	lung	Presentation method with illustration and explanation on modules Video [you tube]	Practical exam
24	2h	Understand the concepts, basics and application	Anatomy of heart	Presentation method with illustration and explanation on modules Video [you tube]	Practical exam
25	2h	Understand the concepts, basics and application	Major arteries, veins and nerves of thorax	Presentation method with illustration and explanation on modules Video [you	Practical exam

				tube]	
26	2h	Understand the concepts, basics and application	Bones of the Shoulder (Pectoral girdle) girdles	Presentation method with illustration and explanation on modules Video [you tube]	Practical exam
27	2h	Understand the concepts, basics and application	Bones of the Upper extremities	Presentation method with illustration and explanation on modules Video [you tube]	Practical exam
28	2h	Understand the concepts, basics and application	Bones of the Pelvic girdle	Presentation method with illustration and explanation on modules Video [you tube]	Practical exam
29	2h	Understand the concepts, basics and application	Bones of the Lower extremities	Presentation method with illustration and explanation on modules Video [you tube]	Practical exam
30	2h	Understand the concepts, basics and application	Abdominal cavity and organs	Presentation method with illustration and explanation on modules Video [you tube]	Practical exam
	60 h				

11- Course Evaluation

12. Learning and Teaching Resources: Clinical anatomy Snell

Key references (sources) last anatomy: Grants Atlas

Recommended books and references :Netter

atlas of anatomy, Clinical anatomy Snell

Electronic References, Websites

Course Description Form

1. Course Name: Dental anatomy
2. Course Code: DAN162
3. Semester / Year: year
4. Description Preparation Date15\9\2024
5. Available Attendance Forms: Lectures and labs
6. Number of Credit Hours (Total) / Number of Units (Total)
60 hrs theory+ 60 hrs practical =120 hrs / 6 units
7. Course administrator's name (mention all, if more than one name)
Name: Assis.Lec. Noor Ghazi Saab Email: noor.gsaab@tu.edu.iq
8. Course Objectives

Course Objectives	1- To provide the student with a knowledge skill about the basic concepts of anatomy 2- Providing the student with anatomical information regarding body systems and body organs , its shape, place and functions 3- Providing the student with a cognitive skill about skull and their bones
9. Teaching and Learning Strategies	
Strategy	Theoretical aspect : The lecture is produced through power point, with a clear handwriting, prove design and illustrations The practical side : This is done by carving the teeth on soup and wax

10. Course Structure: Theory +Practical					
Week	Hours Theory	ILOs	Unit/Module or Topic Title	Teaching Method	Assessment Method
1	2 hour	Understanding the concept and basic and app	Introduction	Elocution with drawing and Power Point	Daily exam and oral questions
2	2 hour	Understanding the concept and basic and app	Introduction	Elocution with drawing and Power Point	Daily exam and oral questions
3	2 hour	Understanding the concept and basic and app	Tooth Numbering System	Elocution with drawing and Power Point	Daily exam and oral questions
4	2hour	Understanding the concept and basic and app	Tooth Numbering System	Elocution with drawing and Power Point	Daily exam and oral questions
5	2hour	Understanding the concept and basic and app	Anatomical Landmarks	Elocution with drawing and Power Point	Daily exam and oral questions
6	2 hour	Understanding the concept and basic and app	Anatomical Landmarks	Elocution with drawing and Power Point	Daily exam and oral questions
7	2 hour	Understanding the concept and basic and app	Permanent Maxillary Central incisors	Elocution with drawing and Power Point	Daily exam and oral questions
8	2 hour	Understanding the concept and basic and app	Permanent Maxillary Central incisors	Elocution with drawing and Power Point	Daily exam and oral questions
9	2 hour	Understanding the concept and basic	Permanent Maxillary Lateral incisors	Elocution with drawing and Power Point	Daily exam and oral questions

		and app			
10	2hour	Understanding the concept and basic and app	Permanent Maxillary Lateral incisors	Elocution with drawing and Power Point	Daily exam and oral questions
11	2 hour	Understanding the concept and basic and app	Permanent Mandibular Incisors	Elocution with drawing and Power Point	Daily exam and oral questions
12	2 hour	Understanding the concept and basic and app	Permanent Mandibular Incisors	Elocution with drawing and Power Point	Daily exam and oral questions
13	2 hour	Understanding the concept and basic and app	Permanent Mandibular Incisors	Elocution with drawing and Power Point	Daily exam and oral questions
14	2 hour	Understanding the concept and basic and app	Permanent Canines	Elocution with drawing and Power Point	Daily exam and oral questions
15	2hour	Understanding the concept and basic and app	Permanent Canines	Elocution with drawing and Power Point	Daily exam and oral questions
16	2 hour	Understanding the concept and basic and app	Permanent Maxillary Premolars	Elocution with drawing and Power Point	Daily exam and oral questions
17	2hour	Understanding the concept and basic and app	Permanent Maxillary Premolars	Elocution with drawing and Power Point	Daily exam and oral questions
18	2hour	Understanding the concept and basic and app	Permanent Mandibular first premolars	Elocution with drawing and Power Point	Daily exam and oral questions

19	2 hour	Understanding the concept and basic and app	Permanent Mandibular first premolars	Elocution with drawing and Power Point	Daily exam and oral questions
20	2 hour	Understanding the concept and basic and app	Permanent Mandibular Second premolars	Elocution with drawing and Power Point	Daily exam and oral questions
21	2 hour	Understanding the concept and basic and app	Permanent Maxillary First Molar	Elocution with drawing and Power Point	Daily exam and oral questions
22	2 hour	Understanding the concept and basic and app	Permanent Maxillary second and third Molars	Elocution with drawing and Power Point	Daily exam and oral questions
23	2 hour	Understanding the concept and basic and app	Permanent Mandibular first Molar	Elocution with drawing and Power Point	Daily exam and oral questions
24	2hour	Understanding the concept and basic and app	Permanent Mandibular Second and Third Molars	Elocution with drawing and Power Point	Daily exam and oral questions
25	2 hour	Understanding the concept and basic and app	Tooth Development	Elocution with drawing and Power Point	Daily exam and oral questions
26	2hour	Semester Exam	Tooth Development	Second Semester Exam	Second Semester Exam
27	2 hour	Understanding the concept and basic and app	Pulp cavity	Elocution with drawing and Power Point	Daily exam and oral questions
28	2 hour	Understanding the concept and basic and app	Pulp cavity	Elocution with drawing and Power Point	Daily exam and oral questions

29	2 hour	Understanding the concept and basic and app	Occlusion and physiologic form of teeth and periodontium	Elocution with drawing and Power Point	Daily exam and oral questions
30	2 hour	Understanding the concept and basic and app	Occlusion and physiologic form of teeth and periodontium	Elocution with drawing and Power Point	Daily exam and oral questions
	60 hour Theory				

10. Course Structure: Laboratory sessions

Week	Hours	ILOs	Title of the sessions	Teaching Method	Assessment Method
1	2h	Understand the concepts, basics and application	Introduction to Dental Anatomy & Carving Instruments	Presentation method with illustration and explanation on modules Video [you tube]	Practical exam
2	2h	Understand the concepts, basics and application	Numbering systems.	Presentation method with illustration and explanation on modules Video [you tube]	Practical exam
3	2h	Understand the concepts, basics and application	Practical demonstration of Carving a Cube (1cm*1cm*1cm)	Presentation method with illustration and explanation on modules Video [you tube]	Practical exam
4	2h	Understand the concepts, basics and application	-Carving of a cube.	Presentation method with illustration and explanation on power point Video [you tube]	Practical exam

5	2h	Understand the concepts, basics and application	Description &Carving of the Labial Aspect of P. Max. Right Central Incisor.	Presentation method with illustration and explanation on modules Video [you tube]	Practical exam
6	2h	Understand the concepts, basics and application	Description &Carving of the Mesial aspect of P. Max. Right Central Incisor.	Presentation method with illustration and explanation on modules Video [you tube]	Practical exam
7	2h	Understand the concepts, basics and application	Description ,Carving & Finishing of the Incisal Aspect of Permanent Max. Right Central Incisor.	Presentation method with illustration and explanation on modules Video [you tube]	Practical exam
8	2h	Understand the concepts, basics and application	Practical Training of Carving of P. Max. Right Central Incisor	Presentation method with illustration and explanation on modules Video [you tube]	Practical exam
9	2h	Understand the concepts, basics and application	Practical Exam. Of Carving of P. Max. Right Central Incisor	Presentation method with illustration and explanation on modules Video [you tube]	Practical exam
10	2h	Understand the concepts, basics and application	Description &Carving of the Labial & Mesial Aspects of P. Max. Right Canine.	Presentation method with illustration and explanation on modules Video [you tube]	Practical exam
11	2h	Understand the concepts, basics and application	Description ,Carving & Finishing of the Incisal Aspect of P Max. Right Canine.	Presentation method with illustration and explanation on modules Video [you tube]	Practical exam
12	2h	Understand the concepts, basics and application	Practical Training of Carving of P. Max. Right Canine.	Presentation method with illustration and explanation on modules Video [you tube]	Practical exam

13	2h	Understand the concepts, basics and application	Practical Exam. of Carving of P. Max. Right Canine.	Presentation method with illustration and explanation on modules Video [you tube]	Practical exam
14	2h	Understand the concepts, basics and application	Mid Year Practical Examination of Tooth Carving.	Presentation method with illustration and explanation on modules Video [you tube]	Practical exam
15	2h	Understand the concepts, basics and application	Description &Carving of the Buccal & Mesial Aspects of P.Max. Right 1st Premolar.	Presentation method with illustration and explanation on modules Video [you tube]	Practical exam
16	2h	Understand the concepts, basics and application	Description, Carving & Finishing of the Occlusal Aspect of P.Max. Right 1st Premolar.	Presentation method with illustration and explanation on modules Video [you tube]	Practical exam
17	2h	Understand the concepts, basics and application	Practical Training of Carving of P. Max. Right 1st Premola	Presentation method with illustration and explanation on modules Video [you tube]	Practical exam
18	2h	Understand the concepts, basics and application	Practical Exam. Of Carving of P. Max. Right 1st Premolar	Presentation method with illustration and explanation on modules Video [you tube]	Practical exam
19	2h	Understand the concepts, basics and application	Description &Carving of the Buccal & Mesial Aspects of P.Mand. Right 1st Premolar.	Presentation method with illustration and explanation on modules Video [you tube]	Practical exam
20	2h	Understand the concepts, basics and application	Description, Carving & Finishing of the Occlusal Aspect of P.Mand. Right 1st Premolar.	Presentation method with illustration and explanation on modules Video [you tube]	Practical exam

21	2h	Understand the concepts, basics and application	Practical Training of Carving of P. Mand. Right 1st Premolar	Presentation method with illustration and explanation on modules Video [you tube]	Practical exam
22	2h	Understand the concepts, basics and application	Practical Exam. Of Carving of P. Mand. Right 1st Premolar	Presentation method with illustration and explanation on modules Video [you tube]	Practical exam
23	2h	Understand the concepts, basics and application	Description &Carving of the Buccal & Mesial Aspects of P Max.Right 1st Molar.	Presentation method with illustration and explanation on modules Video [you tube]	Practical exam
24	2h	Understand the concepts, basics and application	Description, Carving & Finishing of the Occlusal Aspect of P. Max. Right 1st Molar.	Presentation method with illustration and explanation on modules Video [you tube]	Practical exam
25	2h	Understand the concepts, basics and application	Practical Training of Carving of P. Max. Right 1st molar.	Presentation method with illustration and explanation on modules Video [you tube]	Practical exam
26	2h	Understand the concepts, basics and application	Practical Exam. of Carving of P. Max. Right 1st molar.	Presentation method with illustration and explanation on modules Video [you tube]	Practical exam
27	2h	Understand the concepts, basics and application	Description &Carving of the Buccal & Mesial Aspects of P. Mand. Right 1st Molar	Presentation method with illustration and explanation on modules Video [you tube]	Practical exam
28	2h	Understand the concepts, basics and application	Description ,Carving & Finishing of the Occlusal aspect of P.Mand 1st Molar/Practical Training of Carving p.Mand 1st molar.	Presentation method with illustration and explanation on modules Video [you tube]	Practical exam

29	2h	Understand the concepts, basics and application	Practical Examination of Carving of P. Mand. Right 1st molar	Presentation method with illustration and explanation on modules Video [you tube]	Practical exam
30	2h	Understand the concepts, basics and application		Presentation method with illustration and explanation on modules Video [you tube]	Practical exam
	60 h				

11. Course Evaluation					
12. Learning and Teaching Resources					
Required textbooks (curricular books, if any)	Woelfels dental anatomy its revelance				
Main references (sources)	Anatomy, physiology and occlusion–	2	1.TOOTH FORM		
Recommended books and references (scientific journals, reports…)					
Electronic References, Websites					

Course Description Form

1. Course Name: Biology
2. Course Code: BIO163
3. Semester / Year: 1st year/ Anuual
4. Description Preparation Date:15\9\2024
5. Available Attendance Forms: Lectures & labs
6. Number of Credit Hours (Total) / Number of Units (Total) 60hrs. Theoretical + 60hrs. practical= 120/ 6 units
7. Course administrator's name (mention all, if more than one name)
Name: Sheelan Akbar , Sina Naje Muhsen, Muna Ahmed Abdulla, Sura Mustafa Kasim, Ranen Ibrahem Abdulla
8. Course Objectives

Course Objectives -teaching students about introduction to medical and oral biology 2- teaching students the Eukaryotes and prokaryotes cells 3-teaching students general and oral disease 4-teaching student's bacteria and oral disease. 5-teaching students Genetics and its role in oral disease. 6- teaching students introduction to parasitology.	• • •

9. Teaching and Learning Strategies	
Strategy	Great group for teaching Small group practical teaching Interactive lectures E-teaching using Google Classroom

10. Course Structure/ Theoretical lectures					
Week	Hours	Required learning outcomes	Unit/ subject name	Learning Method	Evaluation Method
1	2	Understand the basics and application	Introduction to medical biology and oral biology	Giving lectures And explanation using the computer	Daily exam
2	2	Understand the basics and application	Prokaryotes and Eukaryotes	Giving lectures And explanation using the computer	Daily exam
3	2	Understand the basics and applicat	General and oral immunity	Giving lectures And explanation using the computer	Daily exam
4	2	Understand the basics and applicat	Bacteria and oral disease	Giving lectures And explanation using the computer	Daily exam
5	2	Understand the basics and applicat	Genetics and its role in oral diseases	Giving lectures And explanation using the computer	Daily exam
6	2	Understand the basics and applicat	Simple epithelial tissue(tongue)	Giving lectures And explanation using the computer	Daily exam
			FIRST SEMESTER EXAM		
7	2	Understand the basics and applicat	Stratified epithelial tissue	Giving lectures And explanation using the computer	Daily exam
8	2	Understand the basics and applicat	Glandular epithelial tissue	Giving lectures And explanation using the computer	Daily exam
9	2	Understand the basics and applicat	General connective tissue	Giving lectures And explanation using the computer	Daily exam
10	2	Understand the basics and applicat	Muscular tissue	Giving lectures And explanation using the computer	Daily exam
11	2	Understand	Nerve tissue	Giving lectures	Daily exam

		the basics and applicat		And explanation using the computer	
		MID- YEAR EXAM			
12	2	Understand the basics and applicat	Cell structure(oral mucus membrane)	Giving lectures And explanation using the computer	Daily exam
13	2	Understand the basics and applicat	Plasma membrane structure	Giving lectures And explanation using the computer	Daily exam
14	2	Understand the basics and applicat	Passage of materials across cell membrane	Giving lectures And explanation using the computer	Daily exam.
15	2	Understand the basics and applicat	Cell cycle	Giving lectures And explanation using the computer	Daily exam
16	2	Understand the basics and applicat	Mitosis and Meiosis	Giving lectures And explanation using the computer	Daily exam.
			SECOND SEMESTER EXAM		
17	2	Understand the basics and applicat	Cell cycle	Giving lectures And explanation using the computer	Daily exam.
18	2	Understand the basics and applicat	Nuclic acide , DNA and RNA	Giving lectures And explanation using the computer	Daily exam.
19	2	Understand the basics and applicat	Introduction to parasitology	Giving lectures And explanation using the computer	Daily exam.
20	2	Understand the basics and applicat	Types of parasites and host	Giving lectures And explanation using the computer	Daily exam
21	2	Understand the basics and applicat	General and oral protozoa	Giving lectures And explanation using the computer	Daily exam
22	2	Understand the basics and applicat	Human amoebas,E. histolytica, E.coli, E.gingivalis	Giving lectures And explanation using the computer	Daily exam
23	2	Understand the basics and applicat	Flagellates, Giardia lamblia, Trichomonas tenax, T.hominas, T.vaginalis	Giving lectures And explanation using the computer	Daily exam
24	2	Understand the basics and applicat	Leishmania , cutaneous and vesiral	Giving lectures And explanation using the computer	Daily exam
25	2	Understand the basics	Sporozoa, Plasmodium spp.	Giving lectures And explanation	Daily exam.

		and applicat		using the computer	
26	2	Understand the basics and applicat	Toxoplasma gondii&	Giving lectures And explanation using the computer	Daily exam
27	2	Understand the basics and applicat	Nemathelminthes, Ascaris lumbricoides,	Giving lectures And explanation using the computer	Daily exam.
28	2	Understand the basics and applicat	Ancylostoma duodenale, Entrobius vermicularis	Giving lectures And explanation using the computer	Daily exam.
29	2	Understand the basics and applicat	Platyhelminthes, fasciola hepatica	Giving lectures And explanation using the computer	Daily exam.
30	2	Understand the basics and applicat	Schistosoma spp.	Giving lectures And explanation using the computer	Daily exam
		Final examination			

Course Structure/ Practical lectures					
Week	Hours	Required learning outcomes	Unit/ subject name	Learning Method	Evaluation Method
1	2	Understand the basics and application	Laboratory safety	Giving lectures and practical application in the laboratory	Daily exam
2	2	Understand the basics and application	Parts of microscope	Giving lectures and practical application in the laboratory	Daily exam
3	2	Understand the basics and applicat	Types of cells	Giving lectures and practical application in the laboratory	Daily exam
4	2	Understand the basics and applicat	Simple epithelial tissue	Giving lectures and practical application in the laboratory	Daily exam
5	2	Understand the basics and applicat	Stratified epithelial tissue	Giving lectures and practical application in the laboratory	Daily exam
6	2	Understand the basics and applicat	Glandular epithelial tissue	Giving lectures and practical application in the laboratory	Daily exam
			FIRST SEMESTER EXAM		
7	2	Understand	Seros mucous,sero-	Giving lectures and	Daily exam

		the basics and applicat	mucous cell glands Proper connective tissue, loose	practical application in the laboratory	
8	2	Understand the basics and applicat	Proper connective tissue dense	Giving lectures and practical application in the laboratory	Daily exam
9	2	Understand the basics and applicat	Special connective tissue, type of cells	Giving lectures and practical application in the laboratory	Daily exam
10	2	Understand the basics and applicat	Cartilage, Hyaline, Elastic, Fibro	Giving lectures and practical application in the laboratory	Daily exam
		MID- YEAR EXAM			
11	2	Understand the basics and applicat	Compact and spongy bone	Giving lectures and practical application in the laboratory	Daily exam
12	2	Understand the basics and applicat	Human Blood, W.B.C , R.B.C and frog blood	Giving lectures and practical application in the laboratory	Daily exam
13	2	Understand the basics and applicat	Muscular tissue: Skeletal, cardiac and smooth muscles	Giving lectures and practical application in the laboratory	Daily exam.
14	2	Understand the basics and applicat	Nerve cell	Giving lectures and practical application in the laboratory	Daily exam
15	2	Understand the basics and applicat	Central and peripheral nerve system	Giving lectures and practical application in the laboratory	Daily exam.
16	2	Understand the basics and applicat	Spinal cord and meninges	Giving lectures and practical application in the laboratory	Daily exam.
			SECOND SEMESTER EXAM		
17	2	Understand the basics and applicat	Entamoeba histolytica , Entamoeba coli	Giving lectures and practical application in the laboratory	Daily exam.
18	2	Understand the basics and applicat	Giardia lamblia , Trichomonas vaginalis	Giving lectures and practical application in the laboratory	Daily exam.
19	2	Understand the basics and applicat	Trichomonan tenax	Giving lectures and practical application in the laboratory	Daily exam
20	2	Understand the basics and applicat	Leishmania tropica,Leshmania donovani	Giving lectures and practical application in the laboratory	Daily exam
21	2	Understand	Trypanosoms	Giving lectures and	Daily exam

		the basics and applicat	gambies	practical application in the laboratory	
22	2	Understand the basics and applicat	Plasmodium vivax and Toxoplasma gondii	Giving lectures and practical application in the laboratory	Daily exam
23	2	Understand the basics and applicat	Balantidium coli	Giving lectures and practical application in the laboratory	Daily exam
24	2	Understand the basics and applicat	Echinococcus granulosus,Taenia saginata Taenia solium	Giving lectures and practical application in the laboratory	Daily exam.
25	2	Understand the basics and applicat	Ancylostoma duodenale, Entrobius vermicularis	Giving lectures and practical application in the laboratory	Daily exam
26	2	Understand the basics and applicat	Fasciola hepatica	Giving lectures and practical application in the laboratory	Daily exam.
27	2	Understand the basics and applicat	Endoskeleton of frog.	Giving lectures and practical application in the laboratory	Daily exam.
28	2	Understand the basics and applicat	Experiment...examine samples of water	Giving lectures and practical application in the laboratory	Daily exam.
39	2	Understand the basics and applicat	Experiment...examine samples of water (one hour), Experiment ...Blood groups(one hour)	Giving lectures and practical application in the laboratory	Daily exam
30	2	Understand the basics and applicat	Experiment ...Blood groups	Giving lectures and practical application in the laboratory	Daily exam
		Final examination			

11. Course Evaluation

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

12. Learning and Teaching Resources

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

Course Description Form

1. Course Name:
Medical Terminology
2. Course Code:
MDT128
3. Semester / Year:
1st stage/ Annual
4. Description Preparation Date:
28\5\2025
5. Available Attendance Forms:
Student attendance is present and essential.
6. Number of Credit Hours (Total) / Number of Units (Total)
30 Theoretical hours / 2 units
7. Course administrator's name (mention all, if more than one name)
Asst. Lec. Reem Awad Shaban - Reem.a.shaban23@tu.edu.iq Asst. Lec. Abdul Aziz Mohammed Husain Asst. Lec Rusul Jassim Mohammed
8. Course Objectives

Course Objectives	• Develop familiarity with medical terminology and its structure. • Understand and apply terms related to body systems, diagnostic tools, and medical procedures. • Interpret and use abbreviations, eponyms, and homonyms in medical contexts.
9. Teaching and Learning Strategies	
Strategy	• Method of giving lectures, explanation and clarification. • Discussion and participation in the lecture to test thinking skills

10. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	1	understand the basic concepts	Word Analysis & Combining Forms, Suffixes, and Prefixes	give lectures with explanation and clarification	Daily exam
2	1	understand the basic concepts	In Person: Living With Type 1 Diabetes &	give lectures with explanation and clarification	Daily exam
3	1	understand the basic concepts	Pronunciation of Terms & Practical Applications	give lectures with explanation and clarification	Daily exam
4	1	understand the basic concepts	Picture Show & Review	give lectures with explanation and clarification	Daily exam
5	1	understand the basic concepts	Terminology CheckUp & Introduction to Body Systems	give lectures with explanation and clarification	Daily exam
6	1	understand the basic concepts	Body Cavities & Divisions of the Back	give lectures with explanation and clarification	Daily exam

7	1	understand the basic concepts	Planes of the Body & Tenninology	give lectures with explanation and clarification	Daily exam
8	1	understand the basic concepts	In Person: CT and MRI & Exercises and A nswci's	give lectures with explanation and clarification	Daily exam
9	1	understand the basic concepts	Pronunciation of terms and practical applications	give lectures with explanation and clarification	Daily exam
10	1	understand the basic concepts	Picture Show & Review	give lectures with explanation and clarification	Daily exam
11	1	understand the basic concepts	Comibining FnN SuNxes, and Terminology	give lectures with explanation and clarification	Daily exam
12	1	understand the basic concepts	In Person: Gallbtadder Stones & Exercises and Answers	give lectures with explanation and clarification	Daily exam
13	1	understand the basic concepts	Pronunciation of Terms and practical application	give lectures with explanation and clarification	Daily exam

14	1	understand the basic concepts	Picmre Show & Review	give lectures with explanation and clarification	Daily exam
15	1	understand the basic concepts	Additional Topic (e.g., Uedicat Ethics, Legal Issues)	give lectures with explanation and clarification	Daily exam
Second Course					
1	3	understand the basic concepts	Word Analysis & Combining Forms, Suffixes, and Prefixes	give lectures with explanation and clarification	Daily exam
2	3	understand the basic concepts	In Person: Living With Type 1 Diabetes &	give lectures with explanation and clarification	Daily exam
14	5	understand the basic concepts	Picmre Show & Review	give lectures with explanation and clarification	Daily exam
15	5	understand the basic concepts	Additional Topic (e.g., Uedicat Ethics, Legal Issues)	give lectures with explanation and clarification	Daily exam

11.Course Evaluation	
Theoretical tests Daily exams	
12.Learning and Teaching Resources	
1- Required textbooks (curricular books, if any)	Connolly, D. (20 i 9). Medical tei•minology.' Quickly build your medical vocabulary.' Effective techniques for pronO2fncing, understanding, & nemorizing medical terms (Easy to follow on the go guide). [Self-published]. ar s : c iic dmc) - Gylys, B. A., & MastflrS, J. U. (?0l4). Medicnl ierminology simplified. A programmed learning approach by body JyrJe›x (5th ed.). F. A. Davis Company. - GraCe, S. (2023). Medical terminology nmde easy.' The easy-to-follow guide to mastering terminology fOr nursing and healthcoi e pi ofessionals. - Nath, J. L., & Lindsley, K. P. (2019). A short course in medical Ierminolo$y (4th ed.). Wolters K]uwer Health. I s cc oc 70 - Stanfield, P., H»i, Y. H., & CrOSs, N. (2015). Essential medical terminology (4th ed.). Jones& Bai lett Learning

Course Description Form

1. Course Name:
Medical Chemistry
2. Course Code:
MCH164
3. Semester / Year:
1st stage/ Annual
4. Description Preparation Date:
15\9\2024
5. Available Attendance Forms:
Student attendance is present and essential.
6. Number of Credit Hours (Total) / Number of Units (Total)
120 Hours / 6 Units
7. Course administrator's name (mention all, if more than one name)
Name: Prof.Mahdi Salih Hamad Assist.prof.Shaimaa Essa Ahmed E. mail : shaemaa.essa@tu.edu.iq doaa mahmood abdulah
8. Course Objectives
Course Evaluation

Week	Hours	Required learning outcomes	Unit/ subject name	Learning Method	Evaluation Method
1	4	Understanding the concepts, basics and application	Radioactivity-I: types of radiation, isotopes, half-life, and nuclear reaction.	Lecture and explanation ppt presentation	Daily exam and oral questions

2	4	Understanding the concepts, basics and application	Radioactivity-II: radiation dose, and medical application of isotopes.	Lecture and explanation ppt presentation	Daily exam and oral questions
3	4	Understanding the concepts, basics and application	Acid-base: pH scale, measuring pH, and molarity.	Lecture and explanation ppt presentation	Daily exam and oral questions
4	4	Understanding the concepts, basics and application	Arrhenius acid-base, Bronsted acid-base, ionization constant of acid and base.	Lecture and explanation ppt presentation	Daily exam and oral questions
5	4	Understanding the concepts, basics and application	Buffer solution, Acid-base balance in the blood	Lecture and explanation ppt presentation	Daily exam and oral questions
6	4	Understanding the concepts, basics and application	Types of solutions Solubility (effect of temperature and pressure on solubility)	Lecture and explanation ppt presentation	Daily exam and oral questions
7	4	Understanding the concepts, basics and application	Chelation and possible application in Medicine	Lecture and explanation ppt presentation	Daily exam and oral questions

8	4	Understanding the concepts, basics and application	Salts and salt preparations	Lecture and explanation ppt presentation	Daily exam and oral questions
9	4	Understanding the concepts, basics and application	Pollutions	Lecture and explanation ppt presentation	Daily exam and oral questions
10	4	Understanding the concepts, basics and application	Suspension, Colloids, and colloidal dispersion	Lecture and explanation ppt presentation	Daily exam and oral questions
11	4	Understanding the concepts, basics and application	Expression of concentration (molar expression and calculation, (V/V%), (W/V%), (W/W%), examples	Lecture and explanation ppt presentation	Daily exam and oral questions
12	4	Understanding the concepts, basics and application	Geometrical and optical isomers.	Lecture and explanation ppt presentation	Daily exam and oral questions
13	4	Understanding the concepts, basics and application	Amines: classification, physical properties, substituted ammonium ion, preparing amines in living systems.	Lecture and explanation ppt presentation	Daily exam and oral questions

14	4	Understanding the concepts, basics and application	Alcohol-I: naming, classifying, and physical properties.	Lecture and explanation ppt presentation	Daily exam and oral questions
15	4	Understanding the concepts, basics and application	Alcohol-II: preparation, oxidation of alcohol, oxidation of alcohol in living systems.	Lecture and explanation ppt presentation	Daily exam and oral questions
Half year holiday					
16	4	Understanding the concepts, basics and application	Carboxylic acids: naming, physical properties, acidity, and preparation.	Lecture and explanation ppt presentation	Daily exam and oral questions
17	4	Understanding the concepts, basics and application	Esters: naming, preparation, and reactions	Lecture and explanation ppt presentation	Daily exam and oral questions
18	4	Understanding the concepts, basics and application	Amino Acids and Proteins-I: Classification of amino acids Based on side chain character, Isoelectric point, and optical activity.	Lecture and explanation ppt presentation	Daily exam and oral questions
19	4	Understanding the concepts, basics and application	Amino Acids and Proteins-II: Alanine titration curve transamination reaction, and Peptide bond formation.	Lecture and explanation ppt presentation	Daily exam and oral questions

20	4	Understanding the concepts, basics and application	Amino Acids and Proteins-III: primary, secondary, tertiary, and quaternary structure of proteins, classification of proteins.	Lecture and explanation ppt presentation	Daily exam and oral questions
21	4	Understanding the concepts, basics and application	Enzyme-I: Naming, Classification of enzymes, Coenzymes, cofactor and Isoenzymes.	Lecture and explanation ppt presentation	Daily exam and oral questions
22	4	Understanding the concepts, basics and application	Enzyme-II: Koshland's induced fit theory, Fischer's template theory.	Lecture and explanation ppt presentation	Daily exam and oral questions
23	4	Understanding the concepts, basics and application	Enzyme-III: Michaelis-Menten theory, Factors influencing enzyme activity.	Lecture and explanation ppt presentation	Daily exam and oral questions
24	4	Understanding the concepts, basics and application	Nucleic acids & Nucleotides: nucleotides, nitrogen bases, DNA structure (the Watson-Crick model of DNA), Ribonucleic acid (RNA)	Lecture and explanation ppt presentation	Daily exam and oral questions
25	4	Understanding the concepts, basics and application	Carbohydrate-I: classification, functions, three-dimension structure of monosaccharide, Cyclic structure of monosaccharide.	Lecture and explanation ppt presentation	Daily exam and oral questions

26	4	Understanding the concepts, basics and application	Carbohydrate II: Disaccharide, and disaccharide formation, polysaccharide.	Lecture and explanation ppt presentation	Daily exam and oral questions
27	4	Understanding the concepts, basics and application	Carbohydrate III: muco-polysacchrides, carbohydrate, and oral health.	Lecture and explanation ppt presentation	Daily exam and oral questions
28	4	Understanding the concepts, basics and application	Lipids-I: Classification of lipids, functions, Classification of fatty acids, Saturated and unsaturated fatty acids. Hydrogenation and saponification reaction of lipids.	Lecture and explanation ppt presentation	Daily exam and oral questions
29	4	Understanding the concepts, basics and application	Lipids-II: Neutral fats or triacylglycerol, and cholesterol.	Lecture and explanation ppt presentation	Daily exam and oral questions
30	4	Understanding the concepts, basics and application	Lipids –III: Phospholipids, Prostaglandins, lipoproteins	Lecture and explanation ppt presentation	Daily exam and oral questions

Course Description Form

1. Course Name: Medical Physics
2. Course Code: **MPH166**
3. Semester / Year: First/Year
4. Description Preparation Date: 15\9\2024
5. Available Attendance Forms: Annual
6. Number of Credit Hours (Total) / 120 Hours
7. Course administrator's name (mention all, if more than one name)
Names: Dr. Lec. Thamer Mahmood Mohammed Email: thamer.mohammed@tu.edu.iq Asst. Prof Dr. Yasir Khalaf Mohammed Email: yasirkhalaf@tu.edu.iq Asst. Lec. Alyaa Ali Hameed Email: Alyaa.ali@tu.edu.iq
8. Course Objectives

Course Objectives	1. Providing the student with knowledge and skills about the basic concepts of medical physics in general
	2. Providing the student with information about the physics of the human body and the diagnosis and treatment of radiation
	3. Providing the student with knowledge and skills of the importance of human body physics.

9. Teaching and Learning Strategies

Strategy	It includes collaborative learning through discussion of medical physics problems, and hands-on learning using experiments and simulations to illustrate the medical applications of radiation and waves. Emphasis is placed on problem solving and the application of theoretical knowledge to real-.life situations

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	4 hours 2theorati cal 2practica ls	Understand the concepts, basics and application	Terminology	1- The method of giving lectures, explanation and clarification. 2- Student Center	1- Theoretical tests 2- Practical tests 3- Reports and studies 4- Daily exams
2	2Hours	Understand the concepts, basics and application	Terminology	3- Team Project Student Groups 4- Work Shop Workshops	5-General questions and discussions
3	2Hours		Force on &in body	5- Scientific trips to follow up radioactive pollution and its relationship to the human body 6- Experiential Learning.	1- Theoretical tests 2- Practical tests 3- Reports and studies
4	2Hours	Understand the concepts, basics and application	Force on &in body		4- Daily exams
5	2Hours		Physics of the skeleton	5- Application Learning	5-General questions and discussions
6	2Hours		Physics of the skeleton	Lecture and explanation	1- Theoretical tests
7	2Hours	Understand the concepts, basics and application	Heat and cold in medicine:	PPT presentation	2- Practical tests 3- Reports and studies
8	2Hours		Heat and cold in medicine:	Lecture and explanation	4- Daily exams
9	2Hours		Energy, work and power of the body:	PPT presentation	5-General questions and discussions
10	2Hours	Understand the concepts, basics and application	Energy, work and power of the body:	Lecture and explanation	1- Theoretical tests
11	2Hours		Pressure	PPT presentation	2- Practical tests
12	2Hours	Understand the concepts, basics and application	Pressure	Lecture and explanation	3- Reports and studies 4- Daily exams

13	2Hours	Understand the concepts, basics and application	Electricity within the body:	PPT presentation	5-General questions and discussions
14	2Hours		Electricity within the body:	Lecture and explanation	1- Theoretical tests
15	2Hours	Understand the concepts, basics and application	Sound in medicine:	PPT presentation	2- Practical tests
16	2Hours		Sound in medicine:		3- Reports and studies
17	2Hours		Ultrasound	Lecture and explanation	4- Daily exams
18	2Hours	Understand the concepts, basics and application	Ultrasound	PPT presentation	5-General questions and discussions
19	2Hours		Light in medicine		1- Theoretical tests
20	2Hours	Understand the concepts, basics and application	Light in medicine	Lecture and explanation	2- Practical tests
21	2Hours		Laser in medicine.	PPT presentation	3- Reports and studies
22	2Hours		Laser in medicine.		4- Daily exams
23	2Hours	Understand the concepts, basics and application	Physics of eye and vision	Lecture and explanation	5-General questions and discussions
24	2Hours		Physics of eye and vision	PPT presentation	1- Theoretical tests
25	2Hours	Understand the concepts, basics and application	Physics of diagnostic X-ray		2- Practical tests 3- Reports and studies
26	2Hours		Physics of diagnostic X-ray	Lecture and explanation	4- Daily exams 5-General questions and discussions
27	2Hours	Understand the concepts, basics and Application	Physics of nuclear medicine:	PPT presentation	
28	2Hours		Physics of nuclear medicine:	Lecture and explanation	1- Theoretical tests
29	2Hours	Understand the concepts, basics and application	Physics of radiation therapy	PPT presentation	2- Practical tests 3- Reports and studies
30	2Hours		Physics of nuclear medicine:	Lecture and explanation PPT presentation	4- Daily exams 5-General questions and discussions

12. Course Evaluation	
The final grade is calculated out of 100. The grades are distributed according to the tasks assigned to the student, including daily, monthly, mid-year and final exams, including oral and written exams, in addition to practical requirements and seminars, as follows: - **15% half year** **25% annual effort (includes first and second semester grades plus summer training for the courses included in it)** **25% final practical exam** **35% final written exam**	
13. Learning and teaching resources	
1-Medical Physics by John R.Cameron & James G.Skofronick(1978)	Required textbooks (methodology if any)
1-Medical Physics by John R.Cameron & James G. Skofronick (1978)	Main References (Sources)
	Recommended supporting books and references (scientific journals, reports, etc.)
Google scholar, research gates1- 2- Electronic Library of the College of Dentistry 3- 3- Electronic scientific books	Electronic references, websites

Course Description Form

1. Course Name:
Human Rights
2. Course Code:
HRT127
3. Semester / Year:
1st stage / Annual
4. Description Preparation Date:
15\9\2024
5. Available Attendance Forms:
Student attendance is present and essential.
6. Number of Credit Hours (Total) / Number of Units (Total)
30 h /2 units
7. Course administrator's name (mention all, if more than one name)
Asst. Lec. Zaid Ali Ahmed - zeidalkhaldiy@tu.edu.iq Asst. Lec. Ossama Muhammed Abed - Ossama-980@tu.edu.iq
8. Course Objectives
To develop the student's awareness and increase his knowledge of the concept and theoretical side and the study of human rights generally.
9. Teaching and Learning Strategies
1-method of giving a lecture and explanation and clarification. 2-Discussion and participating in the lecture to test thinking skills.

Course Evaluation

Week	Hours	Required learning outcomes	Unit/ subject name	Learning Method	Evaluation Method
1	1	The concept of democracy	Defining the importance of democracy, it is development and dimension	Theoretical	General questions and discussions
2	1	The roots of democracy	Democracy between universality and privacy	Theoretical	General questions and discussions

3	1	Forms of democracy	Direct and semi direct	Theoretical	General question and discussions
4	1	Representation democracy	The concept of the trigonometric system it is legal na ture itis pillars	Theoretical	General question and discussions
5	1	Forms of the parliamentary system	Parliamentary presidential and parliamentary system	Theoretical	General question and discussions
6	1	Election concept	Voters and the organization of the election process	Theoretical	General question and discussions
7	1	Election systems	Direct indirect individual	Theoretical	General question and dis cussions

11-Course Evaluation	
C1- observation and participation. C2- analyzing and interpretation. C3- conclusion and evaluation. C4- preparation and evaluation.	
12.Learning and Teaching Resources	
2- Required textbooks (curricular books, if any)	Human rights and democracy
3- Main references (sources)	Dr Zuhair Riyad
4- Recommended books and references (scientific journals, reports…).	
5- Electronic references, Internet sites…	It is recommended to visit websites related to human rights

Course Description Form

1. Course Name:
Computer
2. Course Code:
COP125
3. Semester / Year:
1st stage / Annual
4. Description Preparation Date:
15/9/2024
5. Available Attendance Forms:
Student attendance is present and essential.
6. Number of Credit Hours (Total) / Number of Units (Total)
90 h- 2 units
7. Course administrator's name (mention all, if more than one name)
Lec. Dr. Tamara A. Anai- tamsamka@tu.edu.iq Asst. Lec. Shms Aldeen Saad Mohsen- shms.aldeen@tu.edu.iq Asst. Lec. Heba Hani Raheem - Heba.h.raheem22m@st.tu.edu.iq Asst. Lec. Raghda Awad Shaban - raghda.a.shaban@tu.edu.iq
8. Course Objectives
A1. To make the student understand the basic concepts of computer science in general. A2- To classify the relationship between the basic concepts between computers, dentistry, and our daily life. A3- - Cognitive analysis of the importance of computer science and its importance in our lives from a positive point of view. A4- How important is computer knowledge from the practical side. A 5- Using Windows and the keyboard. A6- Network Types A7- the wrong in OS A8-AI
9. Teaching and Learning Strategies
Method of giving lectures, explanation and clarification. Using a computer through live examples in our lives Applying concepts in computer education and how to use it in a positive way. Computer education application through a seminar to teach students the use of computers. Scientific trips to the calculator center to see the progress of work.

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
Course Structure // **Theory**					
1	1	Understand the concepts, basics, and application	**Introduction In Computer:** Concepts of HW and SW with their components; Concept of computing, data and information;	give lectures with explanation and clarification using the computer	Daily exam - and computer application
2	1	Understand the concepts, basics, and application	**Introduction In Computer:** applications of information electronics and communication technology (IECT); connecting input/output devices and peripherals to CPU	give lectures with explanation and clarification using the computer	Daily exam - and computer application
3	1	Understand the concepts, basics, and application	**Computer Components:** Computer portions, Hardware parts	give lectures with explanation and clarification using the computer	Daily exam - and computer application
4	1	Understand the concepts, basics, and application	**Computer Components:** I/O units,	give lectures with	Daily exam - and computer application

			Memory Types, Basic CPU Components	explanation and clarification using the computer	
5	1	Understand the concepts, basics, and application	**Computer Components:** Computer Ports, Personal Computer	give lectures with explanation and clarification using the computer	Daily exam - and computer application Daily exam - and computer application
6	1	Understand the concepts, basics, and application	**Computer Components:** Computer portions, Personal Computer (Features and Types)	give lectures with explanation and clarification using the computer	Daily exam - and computer application
7	1	Understand the concepts, basics, and application	**Operating System and Graphical user Interface GUI:** operating System; Basics of common OS; The user interface	give lectures with explanation and clarification using the computer	Daily exam - and computer application
8	1	Understand the concepts, basics, and application	**Operating System and Graphical user Interface GUI:** using Mouse Techniques; use of Common	give lectures with explanation and clarification using the	Daily exam - and computer application

			Icons, Status bar	computer	
9	1	Understand the concepts, basics, and application	**Computer Components:** I/O units, Memory Types, Basic CPU Components	give lectures with explanation and clarification using the computer	Daily exam - and computer application
10	1	Understand the concepts, basics, and application	**Computer Components:** Computer Ports, Personal Computer	give lectures with explanation and clarification using the computer	Daily exam - and computer application
11	1	Understand the concepts, basics, and application	**Computer Components:** Computer portions, Personal Computer (Features and Types)	give lectures with explanation and clarification using the computer	Daily exam - and computer application
12	1	Understand the concepts, basics, and application	**Operating System and Graphical user Interface GUI:** operating System; Basics of common OS; The user interface	give lectures with explanation and clarification using the computer	Daily exam - and computer application
13	1	Understand the concepts, basics, and application	**Word Processing:** formatting of	give lectures with	Daily exam - and computer application

			text; table handling; spell check	explanation and clarification using the computer	
14	1	Understand the concepts, basics, and application	**Word Processing:** language setting and thesaurus; printing of word document.	give lectures with explanation and clarification using the computer	Daily exam - and computer application
15	1		**Exam**		
16	1	Understand the concepts, basics, and application	**Spread Sheet:** Basics of Spreadsheet.		Daily exam - and computer application
17	1	Understand the concepts, basics, and application	**Spread Sheet:** Manipulation of cells; formulas and functions.	give lectures with explanation and clarification using the computer	Daily exam - and computer application
18	1	Understand the concepts, basics, and application	**Spread Sheet:** editing of spread sheet	give lectures with explanation and clarification using the computer	Daily exam - and computer application
19	1	Understand the concepts, basics, and application	**Spread Sheet:** printing of Spread Sheet.	give lectures with explanation	Daily exam - and computer application

				and clarification using the computer	
20	1	Understand the concepts, basics, and application	**Presentation Software:** preparation and presentation of slides.	give lectures with explanation and clarification using the computer	Daily exam - and computer application
21	1	Understand the concepts, basics, and application	**Presentation Software:** slide show	give lectures with explanation and clarification using the computer	Daily exam - and computer application
22	5	Understand the concepts, basics, and application	**Presentation Software:** taking printouts of presentation/handouts.	give lectures with explanation and clarification using the computer	Daily exam - and computer application
23	1	Understand the concepts, basics, and application	**Presentation Software:** preparation and presentation of slides.	give lectures with explanation and clarification using the computer	Daily exam - and computer application
24	1	Understand the	**Introduction to**	give	Daily exam -

		concepts, basics, and application	**Internet and web Browsers:** Computer networks basics; LAN, WAN; concept of internet and its applications.	lectures with explanation and clarification using the computer	and computer application
25	1	Understand the concepts, basics, and application	**Introduction to Internet and web Browsers:** Connecting to internet; World Wide Web; Browsing SW, search engines; understanding URL; Domain name; IP address.	give lectures with explanation and clarification using the computer	Daily exam - and computer application
26	1	Understand the concepts, basics, and application	**Communication and Emails:** Basics of electronic mail; getting an email account; sending and receiving emails.	give lectures with explanation and clarification using the computer	Daily exam - and computer application
27	1	Understand the concepts, basics, and application	**Communication and Emails:** Accessing sent emails; using emails; document collaboration.	give lectures with explanation and clarification using the computer	Daily exam - and computer application
28	1	Understand the	**Computer**	give	Daily exam -

		concepts, basics, and application	**Troubleshooting:** identifying and solving common hardware and software problems that computer users encounter.	lectures with explanation and clarification using the computer	and compute application
29	1	Understand the concepts, basics, and application	**Computer Troubleshooting**: Basic Troubleshooting techniques and tools for diagnosing and resolving issues.	give lectures with explanation and clarification using the computer	Daily exam - and compute application
30	1		**Exam**		
Total	30				

11. Course Structure // **Lab. Experiment**					
Week	Hours Laboratory: 2h/wk	ILOs	Unit/Module or Topic Title ***Practical***	Teaching Method	Assessment Method
1	2	Understand the concepts, basics, and application	**Introduction In Computer:** Concepts of HW and SW with their components; Concept of computing, data and information;	give lectures with explanation and clarification using the computer	Daily exam - and computer application
2	2	Understand the concepts, basics, and application	**Introduction In Computer:** applications of information electronics and communication technology (IECT); connecting input/output devices and peripherals to CPU	give lectures with explanation and clarification using the computer	Daily exam - and computer application
3	2	Understand the concepts, basics, and application	**Computer Components:** Computer portions, Hardware parts	give lectures with explanation and clarification using the computer	Daily exam - and computer application
4	2	Understand the concepts, basics, and application	**Computer Components:** I/O units, Memory Types, Basic CPU Components	give lectures with explanation and clarification using the computer	Daily exam - and computer application
5	2	Understand the concepts, basics, and application	**Computer Components:** Computer Ports, Personal Computer	give lectures with explanation and clarification using the computer	Daily exam - and computer application Daily exam - and computer application
6	2	Understand the concepts, basics, and application	**Computer Components:** Computer portions, Personal Computer (Features and Types)	give lectures with explanation and clarification using the computer	Daily exam - and computer application
7	2	Understand the concepts, basics, and application	**Operating System and Graphical user Interface GUI:** operating System; Basics of common OS; The user interface	give lectures with explanation and clarification using the computer	Daily exam - and computer application
8	2	Understand the concepts, basics, and application	**Operating System and Graphical user Interface GUI:** using Mouse Techniques; use of Common Icons, Status bar	give lectures with explanation and clarification using the computer	Daily exam - and computer application

9	2	Understand the concepts, basics, and application	**Computer Components:** I/O units, Memory Types, Basic CPU Components	give lectures with explanation and clarification using the computer	Daily exam - and computer application
10	2	Understand the concepts, basics, and application	**Computer Components:** Computer Ports, Personal Computer	give lectures with explanation and clarification using the computer	Daily exam - and computer application
11	2	Understand the concepts, basics, and application	**Computer Components:** Computer portions, Personal Computer (Features and Types)	give lectures with explanation and clarification using the computer	Daily exam - and computer application
12	2	Understand the concepts, basics, and application	**Operating System and Graphical user Interface GUI:** operating System; Basics of common OS; The user interface	give lectures with explanation and clarification using the computer	Daily exam - and computer application
13	2	Understand the concepts, basics, and application	**Word Processing:** formatting of text; table handling; spell check	give lectures with explanation and clarification using the computer	Daily exam - and computer application
14	2	Understand the concepts, basics, and application	**Word Processing:** language setting and thesaurus; printing of word document.	give lectures with explanation and clarification using the computer	Daily exam - and computer application
15	2		**Exam**		
16	2	Understand the concepts, basics, and application	**Spread Sheet:** Basics of Spreadsheet.	give lectures with explanation and clarification using the computer	Daily exam - and computer application
17	2	Understand the concepts, basics, and application	**Spread Sheet:** Manipulation of cells; formulas and functions.	give lectures with explanation and clarification using the computer	Daily exam - and computer application
18	2	Understand the concepts, basics, and application	**Spread Sheet:** editing of spread sheet	give lectures with explanation and clarification using the computer	Daily exam - and computer application
19	2	Understand the concepts, basics, and application	**Spread Sheet:** printing of Spread Sheet.	give lectures with explanation and clarification using the computer	Daily exam - and computer application
20	2	Understand the concepts, basics, and application	**Presentation Software:** preparation and presentation of slides.	give lectures with explanation and clarification using the computer	Daily exam - and computer application
21	2	Understand the	**Presentation**	give lectures with	Daily exam - and

		concepts, basics, and application	**Software:** slide show	explanation and clarification using the computer	computer application	
22	2	Understand the concepts, basics, and application	**Presentation Software:** taking printouts of presentation/handouts.	give lectures with explanation and clarification using the computer	Daily exam - computer application	and
23	2	Understand the concepts, basics, and application	**Presentation Software:** preparation and presentation of slides.	give lectures with explanation and clarification using the computer	Daily exam - computer application	and
24	2	Understand the concepts, basics, and application	**Introduction to Internet and web Browsers:** Computer networks basics; LAN, WAN; concept of internet and its applications.	give lectures with explanation and clarification using the computer	Daily exam - computer application	and
25	2	Understand the concepts, basics, and application	**Introduction to Internet and web Browsers:** Connecting to internet; World Wide Web; Browsing SW, search engines; understanding URL; Domain name; IP address.	give lectures with explanation and clarification using the computer	Daily exam - computer application	and
26	2	Understand the concepts, basics, and application	**Communication and Emails:** Basics of electronic mail; getting an email account; sending and receiving emails.	give lectures with explanation and clarification using the computer	Daily exam - computer application	and
27	2	Understand the concepts, basics, and application	**Communication and Emails:** Accessing sent emails; using emails; document collaboration.	give lectures with explanation and clarification using the computer	Daily exam - computer application	and
28	2	Understand the concepts, basics, and application	**Computer Troubleshooting:** identifying and solving common hardware and software problems that computer users encounter.	give lectures with explanation and clarification using the computer	Daily exam - computer application	and
29	2	Understand the concepts, basics, and application	**Computer Troubleshooting**: Basic Troubleshooting techniques and tools for diagnosing and resolving issues.	give lectures with explanation and clarification using the computer	Daily exam - computer application	and

30	2		**Exam**		
Total	60				

11.Course Evaluation

Theoretical tests
Practical tests
Reports, studies, and practical application
Daily exams

12.Learning and Teaching Resources

6- Required textbooks (curricular books, if any)	Graham Brown, David Watson, “Cambridge IGCSE Information and Communication Technology”, 3rd Edition (2020) Alan Evans, Kendall Martin, Mary Anne Poatsy, “Technology in Action Complete”, 16th Edition (2020). Ahmed Banafa, “Introduction to Artificial Intelligence (AI)”, 1st Edition (2024). 1- الخضر على الخضر بحاثو "اساسيات الحاسوب" 2016 2- الدكتور عادل عبد النورو "مدخل الى عالم الذكاء الاصطناعي"2005 اساسيات الحاسوب وتطبيقاتها المكتبية
7- Main references (sources)	Graham Brown, David Watson, “Cambridge IGCSE Information and Communication Technology”, 3rd Edition (2020) Alan Evans, Kendall Martin, Mary Anne Poatsy, “Technology in Action Complete”, 16th Edition (2020). Ahmed Banafa, “Introduction to Artificial Intelligence (AI)”, 1st Edition (2024). Computer application in management (Dr. P. S. Aithal) Computer basics and office applications Part one and part two Authors المؤلفين ا . م . د . زياد محمد عبود أ . د . غسان حميد عبدالمجيد

	أ . م . د . امير حسين مراد م. بلال كمال
8- Recommended books and references (scientific journals, reports…).	3- 2016 الخضر على الخضر بحاثو "اساسيات الحاسوب" 4- الدكتور عادل عبد النورو "مدخل الى عالم الذكاء الاصطناعي"2005 اساسيات الحاسوب وتطبيقاته المكتبية Computer Literacy BASICS: A Comprehensive Guide to IC3 by Connie Morrison and Dolores Wells (2012) My Parents Second Computer and Internet Guide, Beyond the Basics by Louise Latremouille and Dave Henry (Dec 1,2012) 3-اساسيات الحاسوب وتطبيقاته المكتبية-الجزء الاول والثاني (ا.م.د. زياد محمد عبود واخرون)(2014) 4- Different internet Reference
9- Electronic references, Internet sites…	My Parents Second Computer and Internet Guide, Beyond the Basics by Louise Latremouille and Dave Henry (Dec 1,2012) Graham Brown, David Watson, “Cambridge IGCSE Information and Communication Technology”, 3rd Edition (2020) Alan Evans, Kendall Martin, Mary Anne Poatsy, “Technology in Action Complete”, 16th Edition (2020). Ahmed Banafa, “Introduction to Artificial Intelligence (AI)”, 1st Edition (2024).

Course Description Form

1. Course Name: Human Anatomy
2. Course Code: **GAN241**
3. Semester / Year: 2nd stage / Annual
4. Description Preparation Date: 15\9\2024
5. Available Attendance Forms: Lectures & labs
6. Number of Credit Hours (Total) / Number of Units (Total)
30 hours of theory+ 60 h practical/ 4 units
7. Course administrator's name (mention all, if more than one name)
Name: Assis.Prof. Ali Ghanim Abdullah Assis.Prof. Ban Ismael Sedeeq Assis.Lec. Noor Ghazi Saab Email: banasnan@tu.edu.iq ; noor.gsaab@tu.edu.iq;
8. Course Objectives

Course Objectives	To provide the student with a knowledge skill about the basic concepts of anatomy • Providing the student with anatomical information regarding body systems and body organs , its shape, place and functions • Providing the student with a cognitive skill about skull and their bones
9. Teaching and Learning Strategies	
Strategy	The method of giving lectures, explanation and clarification, Graphics, Power point, Video lectures Online Live Meetings 1. Giving lectures 2. Graphics 3. Power point 4. Video lectures

10. Course Structure: Title of the lectures					
Week	**Hours**	**ILOs**	**Unit/Module or Topic Title**	**Teaching Method**	**Assessment Method**
1	2	Understand the concepts, basics and application	Scalp • Layers of the scalp • Muscles of the scalp • Sensory Nerve Supply of the Scalp • Arterial Supply of the Scalp • Venous Drainage of the Scalp • Lymph Drainage of the Scalp • Clinical Notes	Presentation method with illustration and explanation on power point Video [you tube]	daily and monthly exam
2	2	Understand the concepts, basics and application	The orbital region • Eyelids • Movements of the Eyelids • Lacrimal Apparatus • Openings into the Orbital Cavity • Nerves of the Orbit • Blood and Lymph Vessels of the Orbit • Structure of the Eye • Clinical Notes	Presentation method with illustration and explanation on power point Video [you tube]	daily and monthly exam
3	1	Understand the concepts, basics and application	The Nasal region • The Nose • External Nose • Nerve Supply of the External Nose • Blood Supply and Venous Drainage of the External Nose • Nasal Cavity • Nerve Supply of the Nasal Cavity • Blood Supply to the Nasal Cavity • Venous Drainage of the Nasal Cavity • Lymph Drainage of the Nasal Cavity • The Paranasal Sinuses • Drainage of Mucus and Functions of Paranasal Sinuses • Clinical Notes	Presentation method with illustration and explanation on power point Video [you tube	daily and monthly exam

4	1	Understand the concepts, basics and application	Mandibular nerve • Introduction • Branches of the Mandibular Nerve • Otic Ganglion • Clinical Notes	Presentation method with illustration and explanation on power point Video [you tube	daily and monthly exam
5	2	Understand the concepts, basics and application	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	Presentation method with illustration and explanation on power point Video [you tube	daily and monthly exam
6	2	Understand the concepts, basics and application	Oral cavity The Lips The oral Cavity vestibule and Proper Sensory innervation of the Mouth Hard Palate & Soft palate Muscles of the Soft Palate Palatoglossal Arch & Palatopharyngeal Arch	Presentation method with illustration and explanation on power point Video [you tube	daily and monthly exam
7	1	Understand the concepts, basics and application	Tongue • Muscles of the Tongue • Movements of the Tongue		
8	1	Understand the concepts, basics and application	Temporal region • The temporal fossa anatomy • The infratemporal fossa • Communications • Muscles of mastication	Presentation method with illustration and explanation on power point Video [you tube	daily and monthly exam
9	2	Understand the concepts, basics and application	Parotid gland • Parotid Region (Boundaries) • Parotid Gland • Parotid Duct • Innervation of Parotid Gland and Related Structures • Arterial Supply • Venous Drainage • Lymph	Presentation method with illustration and explanation on power point Video [you tube	daily and monthly exam

			Drainage • The Buccal Pad of Fat • Clinical Notes		
10	1	Understand the concepts, basics and application	The Pterygopalatine fossa • Boundaries, Communications and openings • Maxillary nerve • Branches from the pterygopalatine ganglion • THE PTERYGOPALATINE GANGLION • THE VEINS OF THE PTERYGOPALATINE FOSSA	Presentation method with illustration and explanation on power point Video [you tube	daily and monthly exam
11	2	Understand the concepts, basics and application	Temporomandibular joint • Introduction • The Articular Disk • Retrodiscal Tissue • Capsule • Synovial Membrane • Ligaments • Nerve Supply • Vascular Supply • Movements • Important Relations of the Temporomandibular Joint • Clinical Notes	Presentation method with illustration and explanation on power point Video [you tube	daily and monthly exam
12	2	Understand the concepts, basics and application	The neck • Overview • Skin of the Neck • Fasciae of the Neck • Superficial Cervical Fascia • Deep Cervical Fascia • Cervical Ligaments • Muscles of the Neck • Cervical Plexus • Bones of Neck • Blood Supply • Key Neck Muscles	Presentation method with illustration and explanation on power point Video [you tube	daily and monthly exam
13	2	Understand the concepts, basics and application	Triangles of the neck • ANTERIOR TRIANGLE • SUBMENTAL TRIANGLE • SUBMANDIBULAR TRIANGLE • CAROTID	Presentation method with illustration and explanation on power point Video [you tube	daily and monthly exam

			TRIANGLE • MUSCULAR TRIANGLE • Posterior Triangle • Thyroid Gland • blood supply & venous drainage • nerve supply		
14	1	Understand the concepts, basics and application	Submandibular region MUSCLES OF THE SUBMANDIBULAR REGION The submandibular gland Sublingual Gland	Presentation method with illustration and explanation on power point Video [you tube	daily and monthly exam
15	2	Understand the concepts, basics and application	Root of the neck • Muscles of the Root of the Neck • The Thoracic Duct • Main Nerves of the Neck • Cervical Plexus & Brachial Plexus • Lymph Drainage of the Head and Neck • Veins of the Head and Neck	Presentation method with illustration and explanation on power point Video [you tube	daily and monthly exam
16	2	Understand the concepts, basics and application	Arteries of the neck • Common Carotid Artery • Carotid Sinus • Carotid Body • External Carotid Artery • Internal Carotid Artery • Subclavian Arteries (3 parts) • Circle of Willis	Presentation method with illustration and explanation on power point Video [you tube	daily and monthly exam
17	1		Brain • Nervous System • Gross Anatomy of the Brain • Parts of the Brain • Ventricular System of the Brain • The Venous Blood Sinuses (Dural Sinuses) • Blood Supply of the Brain • Cranial Meninges • Dural Nerve Supply • Dural Arterial Supply Dural	Presentation method with illustration and explanation on power point	daily and monthly exam

			Venous Drainage Clinical Focus		
18	1		Cranial nerves • Introduction • Functional Components • Summary of cranial nerves	Video [you tube	daily and monthly exam
19	1		Pharynx • Muscles of the Pharynx • Pharynx divisions • Palatine Tonsils • Waldeyer's Ring of Lymphoid Tissue	Presentation method with illustration and explanation on power point	daily and monthly exam
20	1		Larynx • Cartilages of the Larynx • Membranes and Ligaments of the Larynx • Inlet of the Larynx • Laryngeal Folds • Muscles of the Larynx • Nerve & blood Supply of the Larynx	Presentation method with illustration and explanation on power point Video [you tube	daily and monthly exam
	30		الإ		

10. Course Structure: Laboratory sessions

Week	Hours	ILOs	Title of the sessions	Teaching Method	Assessment Method
1	2h	Understand the concepts, basics and application	Anatomy of scalp	Presentation method with illustration and explanation on modules Video [you tube]	Practical exam
2	2h	Understand the concepts, basics and application	Anatomy of face part 1	Presentation method with illustration and explanation on modules Video [you tube]	Practical exam
3	2h	Understand the concepts, basics and application	Anatomy of face part 2	Presentation method with illustration and explanation on	Practical exam

				modules Video [you tube]	
4	2h	Understand the concepts, basics and application	Anatomy of parotid region	Presentation method with illustration and explanation on power point Video [you tube]	Practical exam
5	2h	Understand the concepts, basics and application	Temporal, infratemporal fossa	Presentation method with illustration and explanation on modules Video [you tube]	Practical exam
6	2h	Understand the concepts, basics and application	muscles of mastication	Presentation method with illustration and explanation on modules Video [you tube]	Practical exam
7	2h	Understand the concepts, basics and application	Mandibular nerve	Presentation method with illustration and explanation on modules Video [you tube]	Practical exam
8	2h	Understand the concepts, basics and application	Maxillary artery	Presentation method with illustration and explanation on modules Video [you tube]	Practical exam
9	2h	Understand the concepts, basics and application	Pterygopalatine fossa	Presentation method with illustration and explanation on modules Video [you tube]	Practical exam
10	2h	Understand the concepts, basics and application	Maxillary nerve	Presentation method with illustration and explanation on modules Video [you tube]	Practical exam

11	2h	Understand the concepts, basics and application	Nasal cavity and paranasal sinuses	Presentation method with illustration and explanation on modules Video [you tube]	Practical exam
12	2h	Understand the concepts, basics and application	Tempromandibular joint (TMJ)	Presentation method with illustration and explanation on modules Video [you tube]	Practical exam
13	2h	Understand the concepts, basics and application	Orbital region and Muscles of the eye	Presentation method with illustration and explanation on modules Video [you tube]	Practical exam
14	2h	Understand the concepts, basics and application	Ophthalmic nerve, artery and vein	Presentation method with illustration and explanation on modules Video [you tube]	Practical exam
15	2h	Understand the concepts, basics and application	anatomy of eyeball	Presentation method with illustration and explanation on modules Video [you tube]	Practical exam
16	2h	Understand the concepts, basics and application	Anatomy of mouth(The Lips ,oral Cavity,Tongue)	Presentation method with illustration and explanation on modules Video [you tube]	Practical exam
17	2h	Understand the concepts, basics and application	The Palate	Presentation method with illustration and explanation on modules Video [you tube]	Practical exam
18	2h	Understand the concepts, basics and application	Superficial anatomy of neck	Presentation method with illustration and explanation on modules Video [you tube]	Practical exam

19	2h	Understand the concepts, basics and application	Triangles of neck	Presentation method with illustration and explanation on modules Video [you tube]	Practical exam
20	2h	Understand the concepts, basics and application	Arteries of head and neck (internal carotid artery)	Presentation method with illustration and explanation on modules Video [you tube]	Practical exam
21	2h	Understand the concepts, basics and application	External carotid artery	Presentation method with illustration and explanation on modules Video [you tube]	Practical exam
22	2h	Understand the concepts, basics and application	Subclavian artery	Presentation method with illustration and explanation on modules Video [you tube]	Practical exam
23	2h	Understand the concepts, basics and application	Veins of the Head and Neck (internal jugular vein, subclavian vein, and venus sinuses)	Presentation method with illustration and explanation on modules Video [you tube]	Practical exam
24	2h	Understand the concepts, basics and application	Anatomy of brain	Presentation method with illustration and explanation on modules Video [you tube]	Practical exam
25	2h	Understand the concepts, basics and application	Submandibular region	Presentation method with illustration and explanation on modules Video [you tube]	Practical exam
26	2h	Understand the concepts, basics and application	Anatomy of pharynx	Presentation method with illustration and explanation on modules Video [you tube]	Practical exam

27	2h	Understand the concepts, basics and application	Lymph drainage of head and neck	Presentation method with illustration and explanation on modules Video [you tube]	Practical exam
28	2h	Understand the concepts, basics and application	Anatomy of larynx	Presentation method with illustration and explanation on modules Video [you tube]	Practical exam
29	2h	Understand the concepts, basics and application	Root of neck	Presentation method with illustration and explanation on modules Video [you tube]	Practical exam
30	2h	Understand the concepts, basics and application	Cranial nerves	Presentation method with illustration and explanation on modules Video [you tube]	Practical exam
	60 h				

11. Learning and Teaching Resources	
1. Books Required reading:	Snell RS. Clinicaba by Regions. 9th edition. . Philadelphia, PA: Lippincott Williams & Wilkins. 2012
2. Main references (sources)	last anatomy Grants Atlas
A- Recommended books and references (scientific journals, reports…).	Netter atlas of anatomy Clinical anatomy snell
B-Electronic references, Internet sites…	
12. The development of the curriculum plan	
.Holding meetings with the rest of the dental colleges and choosing a unified curriculum that serves the dental student	

Course Description Form

1. Course Name:
Prosthodontics
2. Course Code:
PRO262
3. Semester / Year:
2nd stage / Annual
4. Description Preparation Date:
15/9/2024
5. Available Attendance Forms:
Attendance (lecture+ lab)
6. Number of Credit Hours (Total) / Number of Units (Total)
96hr / 6 units
7. Course administrator's name (mention all, if more than one name)
Reem Ahmed Email: reemshihab@tu.edu.iq
8. Course Objectives
1- Defining and understanding some important terms in the Prosthodontics 2- Practical application of practical laboratory steps for manufacturing complete dentures Graduating doctors who are fully familiar with all the materials used to make the complete Dentures
9. Teaching and Learning Strategies
1- Giving the lecture (explanation and clarification) 2- Using modern educational methods Urging the student to use the library as one of the learning methods

10. Course Structure

Week	Hours	Unit/Module or Topic Title	Teaching Method	Assessment Method
1st	1hr.theoretical 2hr. practical	Course description, Introduction, definitions &objectives	power point	Questions and disscussion
2nd	1hr.theoretical 2hr. practical	Maxillary landmarks	power point	Questions and disscussion
3rd	1hr.theoretical 2hr. practical	Mandibular landmarks	power point	Questions and discussion
4th	1hr.theoretical 2hr. practical	Impression trays, stock tray& primary impression	power point	Questions and discussion
5th	1hr.theoretical 2hr. practical	Study cast, S.T.& final impression	power point	Questions and discussion
6th	1hr.theoretical 2hr. practical	Base plate& bite rim	power point	Questions and discussion
7th	1hr.theoretical 2hr. practical	Jaw relations, Orientation &Vertical	power point	Questions and discussion
8	1hr.theoretical 2hr. practical	Horizontal Jaw relations	power point	Questions and discussion
9	1hr.theoretical 2hr. practical	TMJ and mandibular movement	power point	Questions and discussion
10	1hr.theoretical 2hr. practical	Articulators& face-bow	power point	Questions and discussion
11	1hr.theoretical 2hr. practical	Mounting	power point	Questions and discussion
12	1hr.theoretical 2hr. practical	selection of teeth	power point	Questions and discussion
13	1hr.theoretical 2hr. practical	Setting of anterior teeth	power point	Questions and discussion
14	1hr.theoretical 2hr. practical	Setting of posterior teeth	power point	Questions and discussion

15	1hr.theoretical 2hr. practical	Waxing and carving	power point	Questions and discussion
	1hr.theoretical 2hr. practical	1st term exam	power point	
16	1hr.theoretical 2hr. practical	Flasking	power point	Questions and discussion
17	1hr.theoretical 2hr. practical	Wax illumination& processing	power point	Questions and discussion
18	1hr.theoretical 2hr. practical	Denture base materials	power point	Questions and discussion
19	1hr.theoretical 2hr. practical	Deflasking& finishing	power point	Questions and discussion
20	1hr.theoretical 2hr. practical	Selective grinding	power point	Questions and discussion
21	1hr.theoretical 2hr. practical	Trouble shooting	power point	Questions and discussion
22	1hr.theoretical 2hr. practical	Denture repair	power point	Questions and discussion
23	1hr.theoretical 2hr. practical	Revision	power point	Questions and discussion
24		2nd trimester exam		

1-Boucher's Prosthodontic treatment for edentulous patient, ninth edition. 2-Zarb Bolender ,Prosthodontic Treatment for edentulous patients, twelfth edition
Journals in dentistry concerned in complete denture subjects
Google & you tube for complete denture subjects

Course Description Form

1. Course Name:
Dental Material
2. Course Code:
DEM243
3. Semester / Year:
2nd stage / Annual
4. Description Preparation Date:
15/9/2024
5. Available Attendance Forms:
Attendance (lecture+ lab)
6. Number of Credit Hours (Total) / Number of Units (Total)
96hr / 4 units
7. Course administrator's name (mention all, if more than one name)
Muthena Shabaan Email: muthenna@tu.edu.iq
8. Course Objectives
1- Defining and understanding some important terms in the Prosthodontics 2- Practical application of practical laboratory steps for manufacturing complete dentures Graduating doctors who are fully familiar with all the materials used to make the complete Dentures
9. Teaching and Learning Strategies
1- Giving the lecture (explanation and clarification) 2- Using modern educational methods Urging the student to use the library as one of the learning methods

10. Course Structure					
Week	Hours	ILOs	Unit/Module or Topic Title	Teaching Method	Assessment Method
1	1		Introduction and physical properties of dental material	Lecture / lab	theory exam/ Practical evaluation
2	1		Mechanical properties	Lecture / lab	theory exam/ Practical evaluation
3	1		Gypsum materials	Lecture / lab	theory exam/ Practical evaluation
4	1		Gypsum materials	Lecture / lab	theory exam/ Practical evaluation
5	1		Impression materials	Lecture / lab	theory exam/ Practical evaluation
6	1		Impression materials	Lecture / lab	theory exam/ Practical evaluation
7	1		Impression materials	Lecture / lab	theory exam/ Practical evaluation
8	1		Impression materials	Lecture / lab	theory exam/ Practical evaluation
9	1		Impression materials	Lecture / lab	theory exam/ Practical evaluation
10	1		Waxes	Lecture / lab	theory exam/ Practical evaluation
11	1		Waxes	Lecture / lab	theory exam/ Practical evaluation
12	1		Polymers	Lecture / lab	theory exam/ Practical evaluation
13	1		Polymers	Lecture / lab	theory exam/ Practical evaluation
14	1		Investment materials	Lecture / lab	theory exam/ Practical evaluation
15	1		Cement materials	Lecture / lab	theory exam/ Practical evaluation
16	1		Temporary filling	Lecture / lab	theory exam/ Practical evaluation
17	1		Metal and metal alloy	Lecture / lab	theory exam/ Practical evaluation
18	1		Metal and metal alloy	Lecture / lab	theory exam/ Practical evaluation
19	1		Metal and metal alloy	Lecture / lab	theory exam/ Practical evaluation
20	1		Metal and metal alloy	Lecture / lab	theory exam/ Practical evaluation
21	1		Filling materials	Lecture / lab	theory exam/ Practical evaluation

22	1		Filling materials	Lecture / lab	theory exam/ Practical evaluation
23	1		Filling materials	Lecture / lab	theory exam/ Practical evaluation
24	1		Filling materials	Lecture / lab	theory exam/ Practical evaluation
25	1		Preventive materials	Lecture / lab	theory exam/ Practical evaluation
26	1		Root canal filling materials (obturating materials)	Lecture / lab	theory exam/ Practical evaluation
27	1		Finishing and polishing material	Lecture / lab	theory exam/ Practical evaluation
28	1		Relining material	Lecture / lab	theory exam/ Practical evaluation
29	1		Implant materials	Lecture / lab	theory exam/ Practical evaluation
30	1		Maxillofacial materials	Lecture / lab	theory exam/ Practical evaluation

11. Infrastructure	
1. Books Required reading:	Phillips dental materials
2. Main references (sources)	Restorative dental material Dental material their selection and use
12. The development of the curriculum plan	
Periodic review of latest developments in dental materials and their inclusion in the plan	

Course Description Form

1. Course Name:
General Histology
2. Course Code:
GHS264
3. Semester / Year:
2nd stage / Annual
4. Description Preparation Date:
15\9\2024
5. Available Attendance Forms:
Lectures & labs
6. Number of Credit Hours (Total) / Number of Units (Total)
120 hours / 6 units
7. Course administrator's name (mention all, if more than one name)
Name: MaHMod Nawfal Mustafa Email:mahmood_nafal@tu.edu.iq
8. Course Objectives
Course Evaluation

Week	Hours	ILOs	Unit/Module or Topic Title	Teaching Method	Assessment Method
1	**2 hrs**	**To familiarize the student with histology in general**	**Cell and basic tissues**	**Lecture and explanation**	**Questions and discussion**
2	**2 hrs**	**The student learns about the epithelial tissue and how to distinguish between its types and the function of each type**	**Epithelial Tissue**	**Lecture and explanation**	**Questions and discussion**
3	**2 hrs**	**The student learns about the connective tissues and how to distinguish between their types and the function of each type**	**Connective Tissue**	**Lecture and explanation**	**Questions and discussion**
4-5	**4 hrs**	**The student learns about the**	**Respiratory system**	**Lecture and explanation**	**Questions and discussion**

		organs and tissues of the respiratory system			
6-7	**4 hrs**	**The student learns about the organs and tissues of the urinary system**	**Urinary system**	**Lecture and explanation**	**Questions and discussion**
8		**First**	**Semester exams**		
9-10	**4-hrs**	**The student learns about the organs and tissues of the integumentary system**	**integumentary system**		**Questions and discussion**
11-13	**6 hrs.**	**Students learn about the organs and tissues of the digestive system**	**Digestive System**	**Lecture and explanation**	**Questions and discussion**
14-15	**4 hrs**	**The student learns about the organs and tissues of the lymphoid system**	**lymphoid system**	**Lecture and explanation**	**Questions and discussion**
		Mid-year	**Exam**		
16-17	**4 hrs.**	**The student learns about the organs and tissues of the circulatory system**	**Cardiovascular system**	**Lecture and explanation**	**Questions and discussion**
18-19	**4 hrs**	**The student learns about the organs and tissues of the bone marrow and hemopoietic tissues**	**Heompoiesis**	**Lecture and explanation**	**Questions and discussion**
20-21	**4 hrs**	**The student learns about the organs and tissues of the male reproductive system**	**Male reproductive system**	**Lecture and explanation**	**Questions and discussion**

22-23	**4 hrs.**	**The student learns about the organs and tissues of the female reproductive system**	**female reproductive system**	**Lecture and explanation**	**Questions and discussion**
24		**Second**	**Semester exams**		
25-26	**4 hrs.**	**The student learns about the organs and tissues of the endocrine system**	**Endocrine**	**Lecture and explanation**	**Questions and discussion**
27-28	**4 hrs.**	**The student learns about the nervous system and its tissues**	**Nervous system**	**Lecture and explanation**	**Questions and discussion**
29-30	**4 hrs.**	**The student learns about the special sense organs**	**The special sense organs: Eye and ear**	**Lecture and explanation**	**Questions and discussion**

Course Description Form

1. Course Name: Biochemistry
2. Course Code: **BCH265**
3. Semester / Year:
2nd stage / Annual
4. Description Preparation Date:15\9\2024
5. Available Attendance Forms: Student attendance is 100% for all academic year
6. Number of Credit Hours (Total) / Number of Units (Total): 60 theoretical hours and 60 practical hours / 6 units
7. Course administrator's name (mention all, if more than one name) Assist. Prof.Dr.Salim Jasim Khalaf, doaa mahmood abdulah

8. Course Objectives	
Course Objectives	□ Introduction to the Biochemistry and students learn the biochemistry of the body. □ □

9. Teaching and Learning Strategies	
Strategy	A. <u>Cognitive Objectives (Knowledge and Understanding)</u> A.1 - teaching students the biochemistry of body parts A.2 - Study of biochemistry and disorders of the body A.3–

A. 4–
Programme Skill Teaching and learning means and tools B.
Objectives
1—Student knowledge of body part functions B.2– B.
3– B.
B.4 –
Methods of Teaching and Learning
Teaching and learning means and tools

Assessment Methods

Examinations

Thinking skills C.
- solving problems C.1
– ability to leadership C.2
- C.3
- C.4

Methods of Teaching and Learning

Teaching and learning means and tools

Assessment Methods

Practical and theoretical exams

General and gained skills (other skills related to employability and personal development). D.
- teaching students academic methods for discussion and talks D.1
- D.2
- D.3

D.4

10. Academic Course structure

Assessment method	Teaching Method	Academic Course name	Theoretical content	Hours	Week
Questions and Discussion	**Lecture and explanation and display PowerPoint**	Enzymes	Enzymes: Definition ,Terminology , and Classification	2	**1**
Questions and Discussion	**Lecture and explanation**	Enzymes	Mechanism of enzyme action.	**4**	**2-3**

	and display PowerPoint		Clinical significance of enzyme assays		
Questions and Discussion	**Lecture and explanation and display PowerPoint**	Vitanins	Vitamins, definition, classification	**2**	**4**
Questions and Discussion	**Lecture and explanation and display PowerPoint**	Digestion and absorption	Digestion and absorption of carbohydrates, lipids ,and proteins. Chemistry of carbohydrates	**4**	**5-6**
Questions and Discussion	**Lecture and explanation and display PowerPoint**	Metabolism of carbohydrates	Metabolism of Carbohydrates: part 1 Metabolism of Carbohydrates :part 2	**4**	**7-8**
Questions and Discussion	**Lecture and explanation and display PowerPoint**	Carbohydrate Metabolism	Carbohydrates metabolism regulation	**2**	**9**
Questions and Discussion	**Lecture and explanation and display PowerPoint**	Proteins and amino acids	Chemistry of Proteins and amino acids. Metabolism of Proteins and amino acids.	**2**	**10-11**
Questions and Discussion	**Lecture and explanation and display PowerPoint**	Proteins and amino acids	Metabolism of Protein and amino acid regulation. Metabolism of Protein and amino acid inherited disorder	**2**	**12-13**
Questions and Discussion	**Lecture and explanation and display PowerPoint**		Examination	**2**	**14**
Questions and Discussion	**Lecture and explanation and display PowerPoint**			**2**	**عطلــة نـصـف السـنة**
Questions and Discussion	**Lecture and explanation and display PowerPoint**	Biochemistry of lipids	Lipid :definition, classification	**2**	**15**
Questions and Discussion	**Lecture and explanation and display PowerPoint**	Metabolism of lipids	Metabolism of Lipid: oxidation of Fatty Acids	**2**	**16**
Questions and Discussion	**Lecture and explanation and display PowerPoint**	Metabolism of lipids	Biosynthesis of Fatty Acids.	**4**	**17-18**

			Integration of metabolism of carbohydrates, lipid ,and Proteins		
Questions and Discussion	**Lecture and explanation and display PowerPoint**	Metabolism of Purines and pyrimidines	Metabolism of Purines and pyrimidines. Metabolism of Purines and pyrimidines disorder	**4**	**19-20**
Questions and Discussion	**Lecture and explanation and display PowerPoint**	Nucleic acids	Nucleic Acids Definition and Protein synthesis.	**2**	**21**
Questions and Discussion	**Lecture and explanation and display PowerPoint**	Endocrine System and hormones	Hormone definition, classification. Hormone disorder	**4**	**22-23**
Acid-base balance			Acid-base balance (Acidosis and alkalosis)	**2**	**24**
Questions and Discussion	**Lecture and explanation and display PowerPoint**	Trace elements	Trace elements disorder	**2**	**25**
Questions and Discussion	**Lecture and explanation and display PowerPoint**	Saliva and pancreatic juice	Salivary secretion(saliva), Pancreatic juice	**2**	**26**
Questions and Discussion	**Lecture and explanation and display PowerPoint**	Electrolytes	Electrolytes (Na, K, Cl)	**2**	**27**
Questions and Discussion	**Lecture and explanation and display PowerPoint**	Liver Function Test. Kidney Function Test	Liver Function Tests(GOT,GPT,ALP) Kidney Function Tests (Blood urea, serum creatinine)	**2**	**28-29**
Questions and Discussion	**Lecture and explanation and display PowerPoint**	Examination	Examination	**2**	**30**
Total				**60**	**30**

Course Evaluation .
The final grade is calculated from 011 The distribution of grades according to the tasks assigned to the student from daily, monthly, mid-year and final exams, including oral and .- :written exams, in addition to practical requirements and seminars as follows
mid-year %01
annual effort (includes the grades of the first and second semesters in addition to the %51 summer training for the courses included in it)
final practical exam %51
final written exam %51

Infrastructure .11
Harper's Illustrated Biochemistry .1
Lippincott Illustrated Biochemistry .2
McKay book .3
.Different internet References 4
Required textbooks 1-
Main references (resources) 2-
A) Recommended books and references
) ,Scientific journals, reports)
B) Electronic references, websites
,Internet

Course Description Form

1. Course Name: General Physiology	
2. Course Code: **GPH267**	
3. Semester / Year:	
2nd stage / Annual	
4. Description Preparation Date:15\9\2024	
5. Available Attendance Forms: Student attendance is 100% for all academic year	
6. Number of Credit Hours (Total) / Number of Units (Total): 60 theoretical hours and 60 practical hours / 6 units	
7. Course administrator's name (mention all, if more than one name) Assist. Prof.Dr.Takea shaker Ahmed, Assist. Prof.Dr Raghad Tahseen Thanoon, Assist. Lecturer Shatha Nasih	
8. Course Objectives	
Course Objectives	□ Introduction to the physiology and students learn how it performs functions for different body parts. □ □
9. Teaching and Learning Strategies	
Strategy	A. Cognitive Objectives (Knowledge and Understanding) A.1 - teaching students the functions of body parts A.2 - Study of diseases affecting different organs of the body A.3–

	A. 4– Programme Skill Teaching and learning means and tools B. Objectives 1—Student knowledge of body part functions B.2– B. 3– B. B.4 – Methods of Teaching and Learning Teaching and learning means and tools Assessment Methods Examinations Thinking skills C. - solving problems C.1 – ability to leadership C.2 - C.3 - C.4 **Methods of Teaching and Learning** Teaching and learning means and tools **Assessment Methods** Practical and theoretical exams General and gained skills (other skills related to employability and personal development). D. - teaching students academic methods for discussion and talks D.1 - D.2 - D.3 D.4

10. Academic Course structure

Assessment Method	Teaching Method	Academic Course name	Theoretical content	Hours	Week
Short „quarterly half-year and final exams	**A Theoretical lesson using PowerPoint**	**Introduction**	(Function organization of the human body, Cell physiology, Cell membrane , Cell components , Cell Junction)	2	**1**

,Short,quarterly half-year and final exams	**A Theoretical lesson using PowerPoint**	**Body fluid, Edema**	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	**2**	**2**
A Theoretical lesson using PowerPoint	**A Theoretical lesson using PowerPoint**	**Edema**	Edema (Types of Edema, Causes of edema, Measurement of body fluid volume, Dehydration, Types of dehydration, Classification, Causes, Signs and Symptoms of Dehydrations)	**2**	**3**
A Theoretical lesson using PowerPoint	**A Theoretical lesson using PowerPoint**	**Homeostasis and Transport across cell membrane**	Homeostasis and Transport across cell membrane (Diffusion (passive), Carrier-mediated transport (passive or active), .(Vesicular transport	**2**	**4**
A Theoretical lesson using PowerPoint	**A Theoretical lesson using PowerPoint**	**ORAL CAVITY and Salivary Glands**	ORAL CAVITY and Salivary Glands (Functions of Mouth, Salivary Glands (Structure, Development, Major glands, Minor glands, Clinical correlations, Regulation of Salivary Secretion, Factors Influencing Salivary Flow and Composition) (Mastication, Deglutition, Bolus Formation for Swallowing, Digestion), (speech: Definition, Mechanism, Nervous Control, Applied (Physiology	**2**	**5**
A Theoretical lesson using PowerPoint	**A Theoretical**	**Salivary functions and Regulation of**	Salivary functions and Regulation of Salivary Secretion (Composition of	**2**	**6**

	lesson using PowerPoint	**Salivary Secretion**	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		
A Theoretical lesson using PowerPoint	**A Theoretical lesson using PowerPoint**	**BLOOD**	BLOOD (Composition of blood , Hematocrit, Plasma , Functions of blood), Red blood cells (Genesis of R.B.C, polycythemia, Anemia, Destruction of R.B.C.s)	**2**	**7**
A Theoretical lesson using PowerPoint	**A Theoretical lesson using PowerPoint**	**White Blood Cells**	White Blood Cells (Types of W.B.C. , Genesis of the leukocytes, Life span of the W.B.C, Phagocytosis, Inflammation, Leukemia's, Leukopenia	**2**	**8**
A Theoretical lesson using PowerPoint	**A Theoretical lesson using PowerPoint**	**Hemoglobin**	Hemoglobin (Formation of Hemoglobin , Iron Metabolism , Hb Compounds , Destruction of Hb , The common causes of jaundice)	**2**	**9**
A Theoretical lesson using PowerPoint	**A Theoretical lesson using PowerPoint**	**Blood groups**	Blood groups (Agglutination, Agglutinins, The Rh Group, Formation of Anti-Rh, agglutinins, Erythrobastosis Fetalis , Effect of the Mother's Antibodies on the Fetus, Transfusion Reactions	**2**	**10**

			resulting from mismatched Blood Types , (Nature of Antibodies		
A Theoretical lesson using PowerPoint	**A Theoretical lesson using PowerPoint**	**Hemostasis and blood coagulation**	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 (	**2**	**11**
A Theoretical lesson using PowerPoint	**A Theoretical lesson using PowerPoint**	**Cardiovascular :system**	Cardiovascular system: Blood vessels Heart: Layers, Valves,) Actions of heart, Blood Vessels, Division of circulation, Properties of Cardiac Muscle, Action Potential and Ionic Basis, Conductive system of Human Heart (	**2**	**12**
A Theoretical lesson using PowerPoint	**A Theoretical lesson using PowerPoint**	**Cardiovascular system:**	Cardiovascular system: Blood pressure Cardiac Cycle, Heart) Sounds, Cardiac Output, Heart Rate and Regulation, Arterial Blood Pressure and Regulation of ABP Venous Pressure and Capillary Pressure, Arterial Pulse and Venous Pulse, Regional (Circulation	**2**	**13**
A Theoretical lesson using PowerPoint	**A Theoretical lesson using PowerPoint**	**Cardiovascular system:**	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	**2**	**14**

			Pulse, Regional (Circulation		
A Theoretical lesson using PowerPoint	**A Theoretical lesson using PowerPoint**	**Respiratory system**	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)	**2**	**15**
A Theoretical lesson using PowerPoint	**A Theoretical lesson using PowerPoint**	**Respiratory system**	Respiratory system: Lung volumes and capacities (Compliance, Variation in Compliance, The resistance and the work of breathing, Dead space, Lung volume and Lung capacity, Ventilation, Respiratory Protective Reflexes , Pulmonary function tests, Regulation of Respiration, The relationship between oral health and respiratory (disease	**2**	**16**
		2	**Half-year Break**		
A Theoretical lesson using PowerPoint	**A Theoretical lesson using PowerPoint**	**SPECIAL SENSATION:**	SPECIAL SENSATION: Vision, Hearing, taste & smell (Structure of Eye, Visual Process and Field of Vision, Visual Pathway Pupillary Reflexes, Color Vision, and Errors of Refraction. Structure of Ear and Auditory Pathway ,Mechanism of Hearing and Auditory Defects, Sensation of Taste and Smell)	**2**	**17**
A Theoretical lesson using PowerPoint	**A Theoretical lesson using PowerPoint**	**Temperature of the Body**	Temperature of the Body (Normal body Temperatures, Physiological Variations of body temperature, Heat Balance, Heat gain or heat	**2**	**18**

			production in the body, Heat loss from the body, Insulator System of the Body, Blood flow to the skin from the body core provides heat transfer, Regulation of body temperature, Mechanisms to decrease or increase body temperature, Sympathetic "Chemical" Excitation of heat production)		
A Theoretical lesson using PowerPoint	**A Theoretical lesson using PowerPoint**	**Urinary system**	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)	**2**	**19**
A Theoretical lesson using PowerPoint	**A Theoretical lesson using PowerPoint**	**Urinary system**	Urinary system: 20 Urine formation (Mechanism of urine formation, Glomerular Filtration, Pressure determining filtration, Tubular Reabsorption, Tubular secretion **Micturition**, Nerve supply to urinary bladder and sphincters, Renal Function Tests, Relation between renal disease & (oral health	**2**	**20**
A Theoretical lesson using PowerPoint	**A Theoretical lesson using PowerPoint**	**Endocrine System**	Endocrine System (Introduction, Endocrine glands, Hormones, Nature of Hormones, Classification of hormones, Hormone Secretors, Hormonal action	**2**	**21**

			Hormone receptors, Synthesis and storage of hormones, Mechanism of hormonal function, Measurement of Hormone Concentrations in the (Blood		
A Theoretical lesson using PowerPoint	**A Theoretical lesson using PowerPoint**	**Endocrine System**	Major Endocrine Glands Oral manifestations of) endocrine dysfunction, Control Systems Involving Hypothalamus and Pituitary glands, The pituitary gland, Thyroid gland, Pancreas gland, (Adrenal glands	**2**	**22**
A Theoretical lesson using PowerPoint	**A Theoretical lesson using PowerPoint**	**Digestive system**	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	**2**	**23**
A Theoretical lesson using PowerPoint	**A Theoretical lesson using PowerPoint**	**Digestive system**	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, Movment in the Large Digestion, Intestine Absorption, and (Transport	**2**	**24**
A Theoretical lesson using PowerPoint	**A Theoretical lesson using PowerPoint**	**Muscular system**	Muscular system: Muscle structure Types, Structure,) Microscopic Structure, Muscle Physiology, Properties, Contraction and contractile elements, Tone, Electrical and Molecular Changes during (Muscular Contraction	**2**	**25**

A Theoretical lesson using PowerPoint	**A Theoretical lesson using PowerPoint**	**Muscular system**	Muscular system: Tone , contraction Molecular Changes) During Muscular Contraction, Neuromuscular Junction- Neuromuscular Transmission and Blockers, Nutrition and Metabolism (Energy (Requirements)	**2**	**26**
A Theoretical lesson using PowerPoint	**A Theoretical lesson using PowerPoint**	**Nervous System**	Nervous System: Nerve impulse, synapses Nervous System) Division, Cranial nerves , Neuron and Neuroglia, Receptors, Nerve impulse, Synapse and (Neurotransmitters	**2**	**27**
A Theoretical lesson using PowerPoint	**A Theoretical lesson using PowerPoint**	**Nervous System**	Nervous System Reflex Activity,) Somatosensory System and Somatomotor System, (Physiology of Pain	**2**	**28**
A Theoretical lesson using PowerPoint	**A Theoretical lesson using PowerPoint**	**Reproductive system**	Reproductive system: Aging & reproductive system (Male Reproductive System Female Reproductive System, Meiosis, Aging .and Reproductive system	**2**	**29**
A Theoretical lesson using PowerPoint	**A Theoretical lesson using PowerPoint**	**Aviation and Deep physiology**	Aviation and Deep physiology (Body Response in high altitudes, physiological .Changes in the Sea deep) Nutrition and metabolism (daily energy requirement, obesity and fitness)	**2**	**30**
Total				**2**	**60**

Lab number	Study unit title	Hours
1	Microscope	2
2	Collection of Blood Samples	2
3	Blood Smears	2
4	Functions of Saliva & Taste Sensation	2
5	Stimulation and collection of salivary secretion	2
6	Separation of blood samples	2
7	Differential WBCs	2
8	Total Count of WBCs	2
9	Total Count of RBCs	2
10	Blood groups	2
11	Estimation of Hemoglobin	2
12	Bleeding and clotting time	2
13	Self-Monitoring of blood glucose test	2
14	Measurement of blood pressure &pulse rate	2
15	Effect of exercise on blood pressure and respiratory rate	2
16	Mid Exam	2
17	Physiology of vision test	2
18	Physiology of hearing test	2
19	Physiology of Smell sensation	2
20	Measurement of body temperature	2
21	Thyroid function (Body mass index)	2
22	Thyroid function (Body mass index)	2
23	Resuscitation &Artificial respiration	2
24	Resuscitation &Artificial respiration	2
25	Physiology of Skeletal muscles	2
26	Physiology of Skeletal muscles	2
27	Physiology of Skeletal muscles	2
28	Examination of reflexes (Motor Function)	2
29	Seminars and examinations	2
30	Seminars and examinations	2

Required bibliography: • The basic texts • Course books • Other	**Medical Physiology 4th edition (Guyton &Hall)** **Essentials of physiology for dental students (K Sembuling &Prema Sembulinam)**
Special requirements (including, for example, work- shops, seminars, software and websites)	Organising workshops and seminars (seminars) to discuss various topics in physiology
Social services (for example, guest lesson and professional, Training and practical Acadimic courses.	

Course Description Form

1. Course Name:	
Oral Histology & Embryology	
2. Course Code:	
OHE266	
3. Semester / Year:	
2nd stage / Annual	
4. Description Preparation Date:	
15/ 9/2024	
5. Available Attendance Forms:	
Attendance (Theoretical+ labs)	
6. Number of Credit Hours (Total) / Number of Units (Total)	
120 hours (60 hours Theoretical +60hours lab)/6 units	
7. Course administrator's name (mention all, if more than one name)	
1. Name: Prof. Dr. Intesar Jasim Mohammed, Email: dr.intisarjm@tu.edu.iq 2. name: assest. Lec. Areej Salim Dawood, Email: Areej-salim@tu.edu.iq	
8. Course Objectives	
1. Provide the skill of perceiving the steps of preparing the tissue slide that is being examined under a light microscope. 2. The ability to distinguish the tissues that make up the teeth on the one hand, and the tissues of the mouth and jawbones on the other. 3. Distinguishing the different dyes used in preparing the slides for the tissue to be examined. 4. The possibility of determining the types of tissue sections.	
9. Teaching and Learning Strategies	
Strategy	1- Lectures with explanation and clarification using Power Point. 2- Urging students to use the library as one of the learning methods. 3- The method of self-learning by supporting the learner's environment. 4- Urging students to use the Internet as a supportive means of learning. 5- Using the principle of discussion and dialogue to increase students' comprehension.

	6- Applying education through the practical part of the course.

10. Course Structure

Theoretical part

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2 theoretical hours	Understand the concepts & basics	Embryogenesis: first week, ovulation, fertilization and implantation	Deliver the lecture with explanation & clarification using power point	Quiz
2	2 theoretical hours	Understand the concepts & basics	2nd week, Bilaminar germ layer	Deliver the lecture with explanation & clarification using power point	Quiz
3	2 theoretical hours	Understand the concepts & basics	3rd week trilaminar germ layer: gastrulation and neurulation	Deliver the lecture with explanation & clarification using power point	Quiz
4	2 theoretical hours	Understand the concepts & basics	Development of head and neck(pharyngeal arch,pouch & cleft	Deliver the lecture with explanation & clarification using power point	Quiz
5	2 theoretical hours	Understand the concepts & basics	Development of face and anomalies	Deliver the lecture with explanation & clarification using power point	Quiz
6	2 theoretical hours	Understand the concepts & basics	Development of tongue and anomalies	Deliver the lecture with explanation & clarification using power point	Quiz
7	2 theoretical hours	Understand the concepts & basics	Development of palate and anomalies	Deliver the lecture with explanation & clarification	Quiz

				using power point	
8	2 theoretical hours	Understand the concepts & basics	Slide preparation	Deliver the lecture with explanation & clarification using power point	Quiz
9	2 theoretical hours	Understand the concepts & basics	Tooth development and developmental disturbances of teeth	Deliver the lecture with explanation & clarification using power point	Quiz
10	2 theoretical hours	Understand the concepts & basics	Dentinogenesis and dentin structure	Deliver the lecture with explanation & clarification using power point	Quiz
11	2 theoretical hours	Understand the concepts & basics	Amelogenesis, Enamel structures	Deliver the lecture with explanation & clarification using power point	Quiz
12	2 theoretical hours	Understand the concepts & basics	Clinical consideration for dentin and enamel	Deliver the lecture with explanation & clarification using power point	1st Sem.Exam.
13	2 theoretical hours	Understand the concepts & basics	Dental Pulp	Deliver the lecture with explanation & clarification using power point	Quiz
14	2 theoretical hours	Understand the concepts & basics	Cementum and clinical consideration	Deliver the lecture with explanation & clarification using power point	Quiz
15	2 theoretical hours	Understand the concepts & basics	Root formation& Cementogenesis	Deliver the lecture with explanation & clarification using power	Quiz

				point	
			Mid- Year Exam		
16	2 theoretical hours	Understand the concepts & basics	Periodontal ligaments	Deliver the lecture with explanation & clarification using power point	Quiz
17	2 theoretical hours	Understand the concepts & basics	Principles fiber of PDL and gingival fibers	Deliver the lecture with explanation & clarification using power point	Quiz
18	2 theoretical hours	Understand the concepts & basics	Alveolar bone	Deliver the lecture with explanation & clarification using power point	Quiz
19	2 theoretical hours	Understand the concepts & basics	Bone formation and resorption	Deliver the lecture with explanation & clarification using power point	Quiz
20	2 theoretical hours	Understand the concepts & basics	Proteins involve in mineralization of bone and dentin	Deliver the lecture with explanation & clarification using power point	Quiz
21	2 theoretical hours	Understand the concepts & basics	Oral mucosa and their types	Deliver the lecture with explanation & clarification using power point	Quiz
22	2 theoretical hours	Understand the concepts & basics	Gingiva and dentogingival junction	Deliver the lecture with explanation & clarification using power point	2nd Sem. Exam.
23	2 theoretical hours	Understand the concepts & basics	Eruption of teeth	Deliver the lecture with explanation & clarification using power	Quiz

				point	
24	2 theoretical hours	Understand the concepts & basics	Shedding of teeth	Deliver the lecture with explanation & clarification using power point	Quiz
25	2 theoretical hours	Understand the concepts & basics	Salivary gland	Deliver the lecture with explanation & clarification using power point	Quiz
26	2 theoretical hours	Understand the concepts & basics	Salivary proteins	Deliver the lecture with explanation & clarification using power point	Quiz
27	2 theoretical hours	Understand the concepts & basics	TMJ	Deliver the lecture with explanation & clarification using power point	Quiz
28	2 theoretical hours	Understand the concepts & basics	Maxillary sinus	Deliver the lecture with explanation & clarification using power point	Quiz
29	2 theoretical hours	Understand the concepts & basics	Maxillary sinus	Deliver the lecture with explanation & clarification using power point	Quiz
30	2 theoretical hours	Understand the concepts & basics	Age changes of soft and a hard tissues	Deliver the lecture with explanation & clarification using power point	Quiz
Total	60 hours		Final Exam.		

Practical part:

week	Title	Methods	Hours
1	First week of development ovulation and implantation	data show	2
2	Second week of development: bilaminar germ layer	data show	2
3	3rd week trilaminar germ layer: gastrulation and neurulation	Video presentation	2
4	Development of head and neck(pharyngeal arch, pouch & cleft)	data show	2
5	Development of face and anomalies	data show	2
6	Development of tongue and anomalies	data show	2
7	Development of palate and anomalies	data show	2
8	Slide preparation	data show	2
9	Tooth development	data show	2
10	Dentinogenesis and dentin structure	data show	2
11	amelogenesis and enamel structure	data show	2
12	Clinical consideration for dentin and enamel	data show	2
13	Dental Pulp	data show	2
14	Cementum	data show	2
15	Root formation & cementogenesis	data show	2
16	PDL	data show	2
17	PDL fiber &gingival fiber	data show	2
18	Alveolar bone	data show	2
19	Bone formation and resorption	data show	2
20	mineralization of bone and dentin	data show	2
21	Oral mucosa	data show	2
22	Gingiva and dentogingival junction	data show	2
23	Eruption of teeth	data show	2
24	Shedding of teeth	data show	2
25	Salivary gland	data show	2
26	Salivary proteins	data show	2
27	TMJ	data show	2
28	Maxillary sinus	data show	2
29	Histochemistry	data show	2
30	Changes in dental hard &soft tissue	data show	2
Total		data show	60

11. Infrastructure	
1. Books Required reading:	1. ORBAN'S Oral Histology and Embryology.G.S. Kumar: 14th edition; C.V. Mosby Company; 2015, Elsevier. 2. Langman's Medical Embryology. 12th Edition.
2. Main references (sources)	1. Ten Cate's Oral Histology; Antonio Nanci;7th edition; C.V. Mosby; 2013. 2. Essentials of Oral Histology and Embryology; James K. Avery, Pauline F. Steele; Mosby Year Book; 2000. 3. Oral Anatomy Histology and Embryology; Berkovitz B.K.B., Holland G.R., Moxham B.J.; 5th edition; Mosby; 2018.
A- Recommended books and references (scientific journals, reports…).	1- Journals of Oral Biology
B-Electronic references, Internet sites…	

Course Description Form

1. Course Name:
Computer
2. Course Code:
COP228
3. Semester / Year:
2nd stage / Annual
4. Description Preparation Date:
2024/9/15
5. Available Attendance Forms:
Lectures & labs
6. Number of Credit Hours (Total) / Number of Units (Total)
90 h- 2 units
7. Course administrator's name (mention all, if more than one name)
Lec. Dr. Tamara A. Anai- tamsamka@tu.edu.iq Asst. Lec. Shms Aldeen Saad Mohsen- shms.aldeen@tu.edu.iq Asst. Lec. Heba Hani Raheem - Heba.h.rahim@tu.edu.iq Asst. Lec. Raghda Awad Shaban - raghda.a.shaban@tu.edu.iq
8. Course Objectives
1. Providing the student with cognitive skills about the basic concepts of computer science. 2. Providing the student with basic and important information in computer science and its importance in our daily lives. 3. Providing the student with the skill in using the computer. And learning about networks and their types and dealing with email 4. Applied study of the computer, in terms of basic definitions, computer parts and applications. 5. Identifying the importance and relationship between computers and dentistry and localizing the benefit between the two departments. 6. Identifying electronic and banking services related to artificial intelligence 7. Providing the student with cognitive skills about the basic concepts of computer science. 8. Types of networks and devices used to connect to the Internet 9. Learning and introducing the student to artificial intelligence and modern technology 10. Providing the student with basic and important information about computer science and its importance in our daily lives. 11. Identifying common errors in operating systems and networks and how to address them

9. Teaching and Learning Strategies

1. Familiarity with the computer, its parts and Internet programs

2. - How to deal with different programs

3. Using programs for e-learning

4. Keeping pace with development and using artificial intelligence and learning about its various applications Getting to know the Internet and networks

5. - Cognitive analysis of the importance of computer science and its importance in our lives from a positive perspective.

6. The importance of computer knowledge from the practical side.

7. Using Windows and the keyboard

Course Evaluation

Week	Hours	Required Learning Electronic References, Websites	, if any) name	Recommended books and method	(scientific journals, reports...) method
Course Structure // **Theory**					
1	1	Understand the concepts, basics, and application	**Security and Networking:** What is a network? Types of networks. Basic network components.	give lectures with explanation and clarification using the computer	Daily exam - and computer application
2	1	Understand the concepts, basics, and application	**Security and Networking:** Basic network components. (cont.)	give lectures with explanation and clarification using the computer	Daily exam - and computer application
3	1	Understand the concepts, basics, and application	**Security and Networking:** Understanding	give lectures with explanation and clarification using the computer	Daily exam - and computer application

			network threats. Network Troubleshooting. (cont.)			
4	1	Understand the concepts, basics, and application	**Security and Networking:** Introduction network. Common network issues. Network Tools of Troubleshooting. (cont.)	give lectures with explanation and clarification using the computer	Daily exam - and computer application	
5	1	Understand the concepts, basics, and application	**Security and Networking:** Tools for diagnosing and resolving issues. Diagnosing network performance problem. (cont.)	give lectures with explanation and clarification using the computer	Daily exam - and computer application Daily exam - and computer application	
6	1	Understand the concepts, basics, and application	**E-Commerce:** Concepts of Electronic banking services include online banking: ATM and debit card services, Phone banking, SMS banking, electronic alert, Mobile banking.	give lectures with explanation and clarification using the computer	Daily exam - and computer application	
7	1	Understand the concepts, basics, and application	**E-Commerce:** Phone banking, SMS banking, electronic alert, Mobile banking. (cont.)	give lectures with explanation and clarification using the computer	Daily exam - and computer application	
8	1	Understand the concepts, basics, and application	**Computer**	give lectures with explanation and	Daily exam - and computer	

			Troubleshooting: identifying and solving common hardware and software problems that computer users encounter.	clarification using the computer	application
9	1	Understand the concepts, basics, and application	**Computer Troubleshooting:** Basic Troubleshooting techniques and tools for diagnosing and resolving issues. (cont.)	give lectures with explanation and clarification using the computer	Daily exam - and computer application
10	1	Understand the concepts, basics, and application	**Computer Troubleshooting:** Troubleshooting operating system issues t. identifying and resolving. Dealing with slow computer performance. (cont.)	give lectures with explanation and clarification using the computer	Daily exam - and computer application
11	1	Understand the concepts, basics, and application	**Computer Troubleshooting:** Virus and malware removal techniques. Updating drivers and software (cont.)	give lectures with explanation and clarification using the computer	Daily exam - and computer application
12	1	Understand the concepts, basics, and application	**Introduction to AI:** definition of AI, History of AI, AI Techniques and Approaches,	give lectures with explanation and clarification using the computer	Daily exam - and computer application
13	1	Understand the concepts, basics, and application	**Introduction to AI:** Characters of AI, Benefits of AI,	give lectures with explanation and clarification using the computer	Daily exam - and computer application

			Challenges and Ethical Considerations. (cont.)			
14	1	Understand the concepts, basics, and application	**Introduction to AI:** Challenges and limitations of AI. Role of data in AI system (cont.)	give lectures with explanation and clarification using the computer	Daily exam - and computer application	
15	1	Understand the concepts, basics, and application	**Introduction to AI:** AI tools and frameworks (cont.)	give lectures with explanation and clarification using the computer	Daily exam - and computer application	
16	1	Understand the concepts, basics, and application	**The Role of AI in Modern Smartphones:** AI-Driven Mobile Technologies. Virtual Assistants (Siri, Google Assistant, Alexa)		Daily exam - and computer application	
17	1	Understand the concepts, basics, and application	**The Role of AI in Modern Smartphones:** Adaptive learning, Rel- Time Translation services (cont.)	give lectures with explanation and clarification using the computer	Daily exam - and computer application	
18	1	Understand the concepts, basics, and application	**The Role of AI in Modern Smartphones:** The future of AI in smartphone technologies challenges implementing. AI mobile devices. (cont.)	give lectures with explanation and clarification using the computer	Daily exam - and computer application	
19	1	Understand the concepts, basics, and application	**Applications and Tools of AI:** Overview of AI Applications in	give lectures with explanation and clarification using the computer	Daily exam - and computer application	

			various industries, Education and Healthcare		
20	1	Understand the concepts, basics, and application	**Applications and Tools of AI:** Transportation and Advertising (cont.)	give lectures with explanation and clarification using the computer	Daily exam - and computer application
21	1	Understand the concepts, basics, and application	**Applications and Tools of AI:** Finance, Robotics and Automations (cont.)	give lectures with explanation and clarification using the computer	Daily exam - and computer application
22	5	Understand the concepts, basics, and application	**Applications and Tools of AI:** AI marketing: Targeting techniques and personalization (cont.)	give lectures with explanation and clarification using the computer	Daily exam - and computer application
23	1	Understand the concepts, basics, and application	**Applications and Tools of AI:** AI in image and video analysis, smart cities (cont.)	give lectures with explanation and clarification using the computer	Daily exam - and computer application
24	1	Understand the concepts, basics, and application	**Applications and Tools of AI:** Future trend in AI applications and tools (cont.)	give lectures with explanation and clarification using the computer	Daily exam - and computer application
25	1	Understand the concepts, basics, and application	**AI and Society:** Introduction to AI and Its societal impact, the role of AI in enhancing public safety	give lectures with explanation and clarification using the computer	Daily exam - and computer application
26	1	Understand the concepts, basics, and application	**AI and Society:** Cultural perspectives on AI adoption, AI and governance: policy implications (cont.)	give lectures with explanation and clarification using the computer	Daily exam - and computer application
27	1	Understand the concepts, basics, and application	**Ethical Challenges**	give lectures with explanation and	Daily exam - and computer

			in AI: Introduction to ethics in AI, Transparency and explainability of AI system, privacy concerns in AI data usage.	clarification using the computer	application
28	1	Understand the concepts, basics, and application	**Ethical Challenges in AI:** The ethical implications of Autonomous systems, ethics in AI-driven marketing (cont.)	give lectures with explanation and clarification using the computer	Daily exam - and computer application
29	1	Understand the concepts, basics, and application	**Ethical Challenges in AI:** Ethical considerations in education, Human rights and AI implementations (cont.)	give lectures with explanation and clarification using the computer	Daily exam - and computer application
30	1	Understand the concepts, basics, and application	**The Future of AI:** Future trends in AI, recent research and emerging technologies	give lectures with explanation and clarification using the computer	Daily exam - and computer application
Total	30				

Course Structure // **practical**					
1	2	Understand the concepts, basics, and application	**Security and Networking:** What is a network? Types of networks. Basic network components.	give lectures with explanation and clarification using the computer	Daily exam - and computer application
2	2	Understand the concepts, basics, and application	**Security and Networking:** Basic network components. (cont.)	give lectures with explanation and clarification using the computer	Daily exam - and computer application
3	2	Understand the concepts, basics, and application	**Security and Networking:** Understanding network threats. Network Troubleshooting. (cont.)	give lectures with explanation and clarification using the computer	Daily exam - and computer application
4	2	Understand the concepts, basics, and application	**Security and Networking:** Introduction network. Common network issues. Network Tools of Troubleshooting. (cont.)	give lectures with explanation and clarification using the computer	Daily exam - and computer application
5	2	Understand the concepts, basics, and application	**Security and Networking:** Tools for diagnosing and resolving issues. Diagnosing network performance problem. (cont.)	give lectures with explanation and clarification using the computer	Daily exam - and computer application Daily exam - and computer application
6	2	Understand the concepts, basics, and application	**E-Commerce:** Concepts of Electronic banking	give lectures with explanation and clarification using the computer	Daily exam - and computer application

			services include online banking: ATM and debit card services, Phone banking, SMS banking, electronic alert, Mobile banking.		
7	2	Understand the concepts, basics, and application	**E-Commerce:** Phone banking, SMS banking, electronic alert, Mobile banking. (cont.)	give lectures with explanation and clarification using the computer	Daily exam - and computer application
8	2	Understand the concepts, basics, and application	**Computer Troubleshooting:** identifying and solving common hardware and software problems that computer users encounter.	give lectures with explanation and clarification using the computer	Daily exam - and computer application
9	2	Understand the concepts, basics, and application	**Computer Troubleshooting:** Basic Troubleshooting techniques and tools for diagnosing and resolving issues. (cont.)	give lectures with explanation and clarification using the computer	Daily exam - and computer application
10	2	Understand the concepts, basics, and application	**Computer Troubleshooting:** Troubleshooting operating system issues t. identifying and resolving. Dealing with slow computer performance. (cont.)	give lectures with explanation and clarification using the computer	Daily exam - and computer application
11	2	Understand the concepts,2basics, and application	**Computer Troubleshooting:** Virus and malware	give lectures with explanation and clarification using	Daily exam - and computer application

			removal techniques. Updating drivers and software (cont.)	the computer	
12	2	Understand the concepts, basics, and application	**Introduction to AI:** definition of AI, History of AI, AI Techniques and Approaches,	give lectures with explanation and clarification using the computer	Daily exam - and computer application
13	2	Understand the concepts, basics, and application	**Introduction to AI:** Characters of AI, Benefits of AI, Challenges and Ethical Considerations. (cont.)	give lectures with explanation and clarification using the computer	Daily exam - and computer application
14	2	Understand the concepts, basics, and application	**Introduction to AI:** Challenges and limitations of AI. Role of data in AI system (cont.)	give lectures with explanation and clarification using the computer	Daily exam - and computer application
15	2	Understand the concepts, basics, and application	**Introduction to AI:** AI tools and frameworks (cont.)	give lectures with explanation and clarification using the computer	Daily exam - and computer application
16	2	Understand the concepts, basics, and application	**The Role of AI in Modern Smartphones:** AI-Driven Mobile Technologies. Virtual Assistants (Siri, Google Assistant, Alexa)		Daily exam - and computer application
17	2	Understand the concepts, basics, and application	**The Role of AI in Modern Smartphones:** Adaptive learning, Rel- Time Translation services (cont.)	give lectures with explanation and clarification using the computer	Daily exam - and computer application
18	2	Understand the concepts, basics, and application	**The Role of AI in Modern**	give lectures with explanation and clarification using	Daily exam - and computer application

			Smartphones: The future of AI in smartphone technologies challenges implementing. AI mobile devices. (cont.)	the computer	
19	2	Understand the concepts, basics, and application	**Applications and Tools of AI:** Overview of AI Applications in various industries, Education and Healthcare	give lectures with explanation and clarification using the computer	Daily exam - and computer application
20	2	Understand the concepts, basics, and application	**Applications and Tools of AI:** Transportation and Advertising (cont.)	give lectures with explanation and clarification using the computer	Daily exam - and computer application
21	2	Understand the concepts, basics, and application	**Applications and Tools of AI:** Finance, Robotics and Automations (cont.)	give lectures with explanation and clarification using the computer	Daily exam - and computer application
22	2	Understand the concepts, basics, and application	**Applications and Tools of AI:** AI marketing: Targeting techniques and personalization (cont.)	give lectures with explanation and clarification using the computer	Daily exam - and computer application
23	2	Understand the concepts, basics, and application	**Applications and Tools of AI:** AI in image and video analysis, smart cities (cont.)	give lectures with explanation and clarification using the computer	Daily exam - and computer application
24	2	Understand the concepts, basics, and application	**Applications and Tools of AI:** Future trend in AI applications and tools	give lectures with explanation and clarification using the computer	Daily exam - and computer application

			(cont.)		
25	2	Understand the concepts, basics, and application	**AI and Society:** Introduction to AI and Its societal impact, the role of AI in enhancing public safety	give lectures with explanation and clarification using the computer	Daily exam - and computer application
26	2	Understand the concepts, basics, and application	**AI and Society:** Cultural perspectives on AI adoption, AI and governance: policy implications (cont.)	give lectures with explanation and clarification using the computer	Daily exam - and computer application
27	2	Understand the concepts, basics, and application	**Ethical Challenges in AI**: Introduction to ethics in AI, Transparency and explainability of AI system, privacy concerns in AI data usage.	give lectures with explanation and clarification using the computer	Daily exam - and computer application
28	2	Understand the concepts, basics, and application	**Ethical Challenges in AI:** The ethical implications of Autonomous systems, ethics in AI-driven marketing (cont.)	give lectures with explanation and clarification using the computer	Daily exam - and computer application
29	2	Understand the concepts, basics, and application	**Ethical Challenges in AI:** Ethical considerations in education, Human rights and AI implementations (cont.)	give lectures with explanation and clarification using the computer	Daily exam - and computer application
30	2	Understand the concepts, basics, and application	**The Future of AI:** Future trends in AI, recent research and emerging technologies	give lectures with explanation and clarification using the computer	Daily exam - and computer application
Total	60				

9. Course Evaluation	
Theoretical tests Practical tests Reports, studies, and practical application Daily exams	
12.Learning and Teaching Resources	
10- Required textbooks (curricular books, if any)	Graham Brown, David Watson, “Cambridge IGCSE Information and Communication Technology”, 3rd Edition (2020) Alan Evans, Kendall Martin, Mary Anne Poatsy, “Technology in Action Complete”, 16th Edition (2020). Ahmed Banafa, “Introduction to Artificial Intelligence (AI)”, 1st Edition (2024). 5- الخضر على الخضر بحاثو "اساسيات الحاسوب" 2016 6- الدكتور عادل عبد النورو "مدخل الى عالم الذكاء الاصطناعي"2005 اساسيات الحاسوب وتطبيقاتة المكتبية
11- Main references (sources)	Graham Brown, David Watson, “Cambridge IGCSE Information and Communication Technology”, 3rd Edition (2020) Alan Evans, Kendall Martin, Mary Anne Poatsy, “Technology in Action Complete”, 16th Edition (2020). Ahmed Banafa, “Introduction to Artificial Intelligence (AI)”, 1st Edition (2024). Computer application in management (Dr. P. S. Aithal) Computer basics and office applications Part one and part two Authors المؤلفين ا . م . د . زياد محمد عبود أ . د . غسان حميد عبدالمجيد أ . م . د . امير حسين مراد م. بلال كمال
12- Recommended books and references (scientific journals, reports…).	7- الخضر على الخضر بحاثو "اساسيات الحاسوب" 2016 8- الدكتور عادل عبد النورو "مدخل الى عالم الذكاء الاصطناعي"2005 اساسيات الحاسوب وتطبيقاتة المكتبية Computer Literacy BASICS: A Comprehensive Guide to IC3 by Connie Morrison and Dolores Wells (2012)

	My Parents Second Computer and Internet Guide, Beyond the Basics by Louise Latremouille and Dave Henry (Dec 1,2012) -3اساسيات الحاسوب وتطبيقاته المكتبية-الجزء الاول والثاني (ا.م.د. زياد محمد عبود واخرون)(2014) 4- Different internet Reference
13- Electronic references, Internet sites…	My Parents Second Computer and Internet Guide, Beyond the Basics by Louise Latremouille and Dave Henry (Dec 1,2012) Graham Brown, David Watson, "Cambridge IGCSE Information and Communication Technology", 3rd Edition (2020) Alan Evans, Kendall Martin, Mary Anne Poatsy, "Technology in Action Complete", 16th Edition (2020). Ahmed Banafa, "Introduction to Artificial Intelligence (AI)", 1st Edition (2024).

Course Description Form

1. Course Name:
Oral surgery
2. Course Code:
OSR346
3. Semester / Year:
3rd stage / Annual
4. Description Preparation Date:
15/9/2024
5. Available Attendance Forms:
Attendance (Theoretical+ labs)
6. Number of Credit Hours (Total) / Number of Units (Total)
120 hours (30 hours Theoretical +60hours lab)/ 4 units
7. Course administrator's name (mention all, if more than one name)
Assist. Prof. Dr. Mohammed Rahil Asst. Lec. Ahmed Amer
8. Course Objectives
5. It is concerned with introducing the student to the basic components of local anesthesia, its components, and its mechanism of action. Introducing the student to the methods of using local anesthesia in dentistry. 6. Informing the student of the complications that may result from the use of local anesthesia and how to avoid and deal with them. 7. Informing the student of the surgical tools used in dentistry. 8. Providing the student with information about general anesthesia, its administration and its complications.
9. Teaching and Learning Strategies

Strategy	1- Lectures with explanation and clarification using Power Point. 2- Urging students to use the library as one of the learning methods. 3- The method of self-learning by supporting the learner's environment. 4- Urging students to use the Internet as a supportive means of learning. 5- Using the principle of discussion and dialogue to increase students' comprehension. 6- Applying education through the practical part of the course.

10. Course Structure Theoretical part					
Week	**Hours**	**Required Learning Outcomes**	**Unit or subject name**	**Learning method**	**Evaluation method**
1	1 theoretical hours	Understand the concepts & basics	Diagnosis in oral surgery	Deliver the lecture with explanation & clarification using power point	Quiz
2	1 theoretical hours	Understand the concepts & basics	Diagnosis in oral surgery	Deliver the lecture with explanation & clarification using power point	Quiz
3	1 theoretical hours	Understand the concepts & basics	Infection Control in Surgical Practice	Deliver the lecture with explanation & clarification using power point	Quiz
4	1 theoretical hours	Understand the concepts & basics	Infection Control in Surgical Practice	Deliver the lecture with explanation & clarification using power point	Quiz
5	1 theoretical hours	Understand the concepts & basics	Extraction of teeth and Contra indications of extraction	Deliver the lecture with explanation & clarification using power point	Quiz
6	1 theoretical hours	Understand the concepts & basics	Extraction of teeth and Contra indications of extraction	Deliver the lecture with explanation & clarification using power point	Quiz
7	1 theoretical hours	Understand the concepts & basics	General arrangement for extraction and Dental forceps	Deliver the lecture with explanation & clarification using power point	Quiz
8	1 theoretical hours	Understand the concepts & basics	General arrangement for extraction and Dental forceps	Deliver the lecture with explanation &	Quiz

				clarification using power point	
9	1 theoretical hours	Understand the concepts & basics	General arrangement for extraction and Dental forceps	Deliver the lecture with explanation & clarification using power point	Quiz
10	1 theoretical hours	Understand the concepts & basics	Techniques of forceps extraction and post-operative instructions	Deliver the lecture with explanation & clarification using power point	Quiz
11	1 theoretical hours	Understand the concepts & basics	Elevators	Deliver the lecture with explanation & clarification using power point	Quiz
12	1 theoretical hours	Understand the concepts & basics	Elevators	Deliver the lecture with explanation & clarification using power point	1st Sem.Exam.
13	1 theoretical hours	Understand the concepts & basics	Complications of dental extraction	Deliver the lecture with explanation & clarification using power point	Quiz
14	1 theoretical hours	Understand the concepts & basics	Complications of dental extraction	Deliver the lecture with explanation & clarification using power point	Quiz
15	1 theoretical hours	Understand the concepts & basics	Basic surgical instruments	Deliver the lecture with explanation & clarification using power point	Quiz
	1 theoretical hours		Mid- Year Exam		

16	1 theoretical hours	Understand the concepts & basics	Introduction to local anesthesia	Deliver the lecture with explanation & clarification using power point	Quiz
17	1 theoretical hours	Understand the concepts & basics	Pharmacology of local anesthesia	Deliver the lecture with explanation & clarification using power point	Quiz
18	1 theoretical hours	Understand the concepts & basics	Pharmacology of local anesthesia	Deliver the lecture with explanation & clarification using power point	Quiz
19	1 theoretical hours	Understand the concepts & basics	Surgical anatomy in local anesthesia	Deliver the lecture with explanation & clarification using power point	Quiz
20	1 theoretical hours	Understand the concepts & basics	Surgical anatomy in local anesthesia	Deliver the lecture with explanation & clarification using power point	Quiz
21	1 theoretical hours	Understand the concepts & basics	Instruments of local anesthesia	Deliver the lecture with explanation & clarification using power point	Quiz
22	1 theoretical hours	Understand the concepts & basics	Techniques of local anesthesia	Deliver the lecture with explanation & clarification using power point	2nd Sem. Exam.
23	1 theoretical hours	Understand the concepts & basics	Techniques of local anesthesia	Deliver the lecture with explanation & clarification using power point	Quiz

24	1 theoretical hours	Understand the concepts & basics	Techniques of local anesthesia	Deliver the lecture with explanation & clarification using power point	Quiz
25	1 theoretical hours	Understand the concepts & basics	Complications of local anesthesia	Deliver the lecture with explanation & clarification using power point	Quiz
26	1 theoretical hours	Understand the concepts & basics	Complications of local anesthesia	Deliver the lecture with explanation & clarification using power point	Quiz
27	1 theoretical hours	Understand the concepts & basics	Complications of local anesthesia	Deliver the lecture with explanation & clarification using power point	Quiz
28	1 theoretical hours	Understand the concepts & basics	Advances in local anesthesia	Deliver the lecture with explanation & clarification using power point	Quiz
29	1 theoretical hours	Understand the concepts & basics	Fundamentals of general anesthesia	Deliver the lecture with explanation & clarification using power point	Quiz
30	1 theoretical hours	Understand the concepts & basics	Medical emergencies during dental treatment	Deliver the lecture with explanation & clarification using power point	Quiz
Total	60 hours		Final Exam.		

Practical part:		
Title		
History taking		
Clinical examination and diagnosis:		
Basic surgical instruments		
Basic surgical instruments		
Dental forceps I		
Dental forceps II		
I Dental elevators		
Dental elevators II		
Tooth development		
Local anesthetics (instruments & materials)		
Maxillary injection techniques		
Mandibular injection techniques		
Maxillary teeth extraction		
Mandibular teeth extraction		
Basic life support and CPR:		
		60 hours

11. Infrastructure	
1. Books Required reading:	1- Local anesthesia in dentistry. .GeoffreyL.Howe,FluorH.Whitehead.
2. Main references (sources)	2- General anaesthesaia and sedation in dentistry C. M. Hill, P. J.Morres. 3- Extraction of teeth..G.L.Howe 4- Minor oral surgery..G.R .Seward. 5-A Concise Textbook of oral& maxilla-facial surgery. SumitSanghai.
A- Recommended books and references (scientific journals, reports…).	1- Journals of Oral surgery
B-Electronic references, Internet sites…	

Course Description Form

1. Course Name: General pathology
2. Course Code: GPT361
3. Semester / Year: 3rd stage / Annual
4. Description Preparation Date: 15\9\2024
5. Available Attendance Forms: Student attendance is 100% for all academic year
6. Number of Credit Hours (Total) / Number of Units (Total)
60 theoretical hours and 60 practical hours / 6 Units
7. Course administrator's name (mention all, if more than one name)
Assist.lecturer Tariq khalil
8. Course Objectives

Course Objectives	Introduction to diseases and deformities that affect the cell and other organs… Helping students differentiate between diseases
9. Teaching and Learning Strategies	
Strategy	A.3 - teaching students the pathology of body parts A.4 - Study of diseases affecting different organs of the body A.3– B. Programme Skill Objectives B. 1—Student knowledge of body part pathology &functions B.2– B. - Skills objectives for course B 1 - The student's knowledge of diseases and the comparison between them that affect the cell 3– Daily tests with multiple-choice questions for academic subjects. Quarterly exams, semi-

	annual and final exams Establishing grades for the internal duties assigned to them. For practical and theoretical exams D - General and transferable skills (other skills related to employability and personal development) D-1 Teaching the student the method of dialogue and discussion. -2 D -3 D

Course Evaluation

Week	Hours	ILOs	Unit/Module or Topic Title	Teaching Method	Assessment Method
1	2	Clinical pathology Molecular pathology Cell damage reversible cell injury	**Introduction**	**A Theoretical lesson using PowerPoint**	**Short ,quarterly, half-year and final exams**
2	4	Irreversible cell injury Deposits and pigmentation External and internal pigmentation	Cell injury	**A Theoretical lesson using PowerPoint**	**Short ,quarterly, half-year and final exams**
3	4	Acute inflammation Chronic pathology Chemical mediators	**Inflammation**	**A Theoretical lesson using PowerPoint**	**Short ,quarterly, half-year and final exams**
4	4	Healing of skin wound Healing of bone	**Healing and repair**	**A Theoretical lesson using PowerPoint**	**Short ,quarterly, half-year and final exams**

5	4	Thromboembolic Disease, and Shock	Hemodynamic Disorders	**A Theoretical lesson using PowerPoint**	**Short ,quarterly, half-year and final exams**
6	4	Genetic	Genetic Disorders	**A Theoretical lesson using PowerPoint**	**Short ,quarterly, half-year and final exams**
7	4	Hypersensitivity Autoimmune diseases Transplantation	Diseases of the Immune System	**A Theoretical lesson using PowerPoint**	**Short ,quarterly, half-year and final exams**
8	6	Bengin and malignant tumors molecular basis of tumors	Neoplasia	**A Theoretical lesson using PowerPoint**	**Short ,quarterly, half-year and final exams**
9	2	Bacterial and viral infection	Infections	**A Theoretical lesson using PowerPoint**	**Short ,quarterly, half-year and final exams**
10	2	Environmental and Nutritional Diseases	Environmental and Nutritional Diseases	**A Theoretical lesson using PowerPoint**	**Short ,quarterly, half-year and final exams**
11	2	Blood Vessels	Blood Vessels	**A Theoretical lesson using PowerPoint**	**Short ,quarterly, half-year and final exams**

12	2	The Heart	The Heart	**A Theoretical lesson using PowerPoint**	**Short ,quarterly, half-year and final exams**
13	2	Red Blood Cell and Bleeding Disorders	Red Blood Cell and Bleeding Disorders	**A Theoretical lesson using PowerPoint**	**Short ,quarterly, half-year and final exams**
14	2	Diseases of White Blood Cells	Diseases of White Blood Cells	**A Theoretical lesson using PowerPoint**	**Short ,quarterly, half-year and final exams**
15	6	Diseases of G.I.T	Diseases of G.I.T	**A Theoretical lesson using PowerPoint**	**Short ,quarterly, half-year and final exams**
16	2	Diseases of liver	Diseases of liver, pancreas and gall bladder	**A Theoretical lesson using PowerPoint**	**Short ,quarterly, half-year and final exams**
17		pancreas and gall bladder	pancreas and gall bladder	**A Theoretical lesson using PowerPoint**	**Short ,quarterly half-year and final exams**
18	2	Diseases of respiratory system	Diseases of respiratory system	**A Theoretical lesson using PowerPoint**	**Short ,quarterly, half-year and final exams**

19	2	Bone diseases	Bone diseases	**A Theoretical lesson using PowerPoint**	**Short ,quarterly, half-year and final exams**
20	2	Kidney	Kidney	**A Theoretical lesson using PowerPoint**	**Short ,quarterly, half-year and final exams**
20	2	Urinary system	Urinary system	**A Theoretical lesson using PowerPoint**	**Short ,quarterly, half-year and final exams**
60					**Total**

No	*Laboratory sessions*	Hours
1	Introduction to general pathology and biopsy	2
2	Power points slides	2
3	Power points and histopathological slides demonstrating fatty changes in liver and cloudy swelling in kidney The gross appearence of reversible cell injury	2
4	Power points and histopathological slides of coagulative necrosis in heart muscles and caseous necrosis in lung With explanation of gross appearence	2
5	Power points and histopathological slides of anthracosis of lung and hemosiderosis in liver With explanation of gross appearence	2
6	Power points and histopathological slides of amyloidosis in kidney, H With explanation of gross appearence& E. and congo-red stain	2
7	Power points and histopathological slides of acute appendicitis (appendix),acute ossteomylitis and lobar pneumonia (lung ,)	2
8	Power points and histopathological slides of chronic cholecystits in gall bladder and With explanation of gross appearence osteomylitis in bone	2
9	Power points and histopathological slides of keloid in skin and granulation tissue	2
10	Power points and histopathological slides of TB in lung and actinomycosis With explanation of gross appearance	2
11	Power points and histopathological slides of Sarcoidosis With explanation of gross appearance	2
12	Power points slides of CVC in lung and liver With explanation of gross appearance	2
13	Power points slides of blood vessels thrombosis	2
14	Power points and histopathological slides of lipoma, S.C papilloma of skin With explanation of gross appearence	2
15	Power points and histopathological slides of osteoma of the bone	2
16	Power points and histopathological slides of S.C. carcinoma and adeno carcinoma of the colon With explanation of gross appearence	2
17	Power points and histopathological slides of thyrotoxicosis of thyroid and hashimotisis thyroiditis in thyroid With explanation of gross appearence	2
18	Data show slides	2
19	Data show slides	2

Course Description Form

1. Course Name:	
Preclinical Operative Dentistry	
2. Course Code:	
POD342	
3. Semester / Year:	
3rd stage / Annual	
4. Description Preparation Date:	
15/9/2024	
5. Available Attendance Forms:	
Attendance (Theoretical+ labs)	
6. Number of Credit Hours (Total) / Number of Units (Total)	
90 hours (30 hours Theoretical +60hours lab)/4units	
7. Course administrator's name (mention all, if more than one name)	
1. Name: assest. Prof. sulafa khair al-deen 2. name: assest. Lec. Al-ala jamal	
8. Course Objectives	
9. Provide the skill of perceiving the steps of preparing the tissue slide that is being examined under a light microscope. 10. The ability to distinguish the tissues that make up the teeth on the one hand, and the tissues of the mouth and jawbones on the other. 11. Distinguishing the different dyes used in preparing the slides for the tissue to be examined. 12. The possibility of determining the types of tissue sections.	
9. Teaching and Learning Strategies	
Strategy	1- Lectures with explanation and clarification using Power Point. 2- Urging students to use the library as one of the learning methods. 3- The method of self-learning by supporting the learner's environment. 4- Urging students to use the Internet as a supportive means of learning. 5- Using the principle of discussion and dialogue to increase students' comprehension. 6- Applying education through the practical part of the course.

10. Course Structure

Theoretical part

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2 theoretical hours	Understand the concepts & basics	Definition of operative dentistry	Deliver the lecture with explanation & clarification using power point	Quiz
2	2 theoretical hours	Understand the concepts & basics	Definition of operative dentistry	Deliver the lecture with explanation & clarification using power point	Quiz
3	2 theoretical hours	Understand the concepts & basics	Instruments and general instrumentation of cavity preparation	Deliver the lecture with explanation & clarification using power point	Quiz
4	2 theoretical hours	Understand the concepts & basics	Instruments and general instrumentation of cavity preparation	Deliver the lecture with explanation & clarification using power point	Quiz
5	2 theoretical hours	Understand the concepts & basics	Sterilization of operative instruments	Deliver the lecture with explanation & clarification using power point	Quiz
6	2 theoretical hours	Understand the concepts & basics	Sterilization of operative instruments	Deliver the lecture with explanation & clarification using power point	Quiz
7	2 theoretical hours	Understand the concepts & basics	Amalgam cavity preparations for class I	Deliver the lecture with explanation & clarification using power point	Quiz
8	2 theoretical hours	Understand the concepts & basics	Amalgam cavity preparations for class I	Deliver the lecture with explanation &	Quiz

				clarification using power point	
9	2 theoretical hours	Understand the concepts & basics	Amalgam cavity preparations for class II	Deliver the lecture with explanation & clarification using power point	Quiz
10	2 theoretical hours	Understand the concepts & basics	Amalgam cavity preparations for class II	Deliver the lecture with explanation & clarification using power point	Quiz
11	2 theoretical hours	Understand the concepts & basics	Amalgam cavity preparations for class II (MOD)	Deliver the lecture with explanation & clarification using power point	Quiz
12	2 theoretical hours	Understand the concepts & basics	Amalgam cavity preparations for class II (MOD)	Deliver the lecture with explanation & clarification using power point	1st Sem.Exam.
13	2 theoretical hours	Understand the concepts & basics	Amalgam cavity preparations for class III and class V	Deliver the lecture with explanation & clarification using power point	Quiz
14	2 theoretical hours	Understand the concepts & basics	Amalgam cavity preparations for class III and class V	Deliver the lecture with explanation & clarification using power point	Quiz
15	2 theoretical hours	Understand the concepts & basics	Cavity liners and cement bases (part 1)	Deliver the lecture with explanation & clarification using power point	Quiz
16	2 theoretical hours	Understand the concepts & basics	Cavity liners and cement bases (part 2)	Deliver the lecture with explanation & clarification using power	Quiz

				point	
17	2 theoretical hours	Understand the concepts & basics	Cavity liners and cement bases (part 2)	Deliver the lecture with explanation & clarification using power point	Quiz
18	2 theoretical hours	Understand the concepts & basics	Dental amalgam alloys (material)	Deliver the lecture with explanation & clarification using power point	Quiz
19	2 theoretical hours	Understand the concepts & basics	Dental amalgam alloys (material)	Deliver the lecture with explanation & clarification using power point	Quiz
20	2 theoretical hours	Understand the concepts & basics	Complex amalgam restoration	Deliver the lecture with explanation & clarification using power point	Quiz
21	2 theoretical hours	Understand the concepts & basics	Complex amalgam restoration	Deliver the lecture with explanation & clarification using power point	Quiz
22	2 theoretical hours	Understand the concepts & basics	Failures in amalgam restorations	Deliver the lecture with explanation & clarification using power point	2nd Sem. Exam.
23	2 theoretical hours	Understand the concepts & basics	Failures in amalgam restorations	Deliver the lecture with explanation & clarification using power point	Quiz
24	2 theoretical hours	Understand the concepts & basics	Tooth colored restorations (composite)	Deliver the lecture with explanation & clarification using power point	Quiz

25	2 theoretical hours	Understand the concepts & basics	Tooth colored restorations (composite)	Deliver the lecture with explanation & clarification using power point	Quiz
26	2 theoretical hours	Understand the concepts & basics	Cavity preparation for anterior restorations	Deliver the lecture with explanation & clarification using power point	Quiz
27	2 theoretical hours	Understand the concepts & basics	Cavity preparation for anterior restorations	Deliver the lecture with explanation & clarification using power point	Quiz
28	2 theoretical hours	Understand the concepts & basics	Resin material	Deliver the lecture with explanation & clarification using power point	Quiz
29	2 theoretical hours	Understand the concepts & basics	Resin material	Deliver the lecture with explanation & clarification using power point	Quiz

Laboratory sessions

Lab number	Study unit title Preclinical Operative Dentistry	
1	Introduction to operative dentistry, and to work in phantom lab. Demonstration about the rotary instrument, and how to cut geometrical cavities (circle, triangle, square, rectangle, and dove-tail), and leave .students to work under supervision	2
2	Demonstration of how to use phantom head, working positions for both student and phantom head, also demonstration cavity preparation on buccal pit of lower 1st molar and palatal pit of upper lateral incisor	2
3	Demonstration of principles of amalgam cavity preparation for CL I on the occlusal surface of lower 2nd premolar on the board then do demonstration of cutting on the phantom head. Quiz about the principles of CL I amalgam cavity preparation	2
4	Demonstration amalgam CL I cavity for lower 1st premolar and Leave .students to work under supervision	2
5	Demonstration amalgam CL I cavity for upper 1st molar (two	2

	separated cavities) on the phantom head and teaching the students how to work indirectly by using mirror. Leave students to work under supervision.	
6	Demonstration amalgam cavity for the palatal extension in upper 1st molar (continue with last lab in distal occlusal cavity), and Demonstration on the hand instrument groups, and teach students to .differentiate between them	2
7	Practical assessment for the students in amalgam CL I cavity on lower .1st molar .Oral quiz on the hand instrument and their groups	2
8	Demonstration amalgam CL II MO cavity for lower 1st premolar	2
9	Demonstration amalgam CL II MO cavity for upper 1st molar	2
10	Practical assessment for the students in amalgam CL II MO cavity on .lower 1st molar Quiz in amalgam CL II cavity lectures	2
11	Demonstration amalgam CL II MOD cavity for lower 1st molar	2
12	Demonstration amalgam CL II MOD cavity for upper 2nd molar	2
13	Practical assessment for the students in cavity preparation of amalgam .CL II MOD cavity on lower 2nd molar	2
14	Demonstration amalgam CL V cavity for lower 2nd premolar, upper 1st molar and upper 2nd premolar	2
15	Demonstration amalgam CL III cavity in distal side of upper canine	2
16	Demonstration of the liner and base placement, their indication, .advantage, and uses	2
17	Supervised students in mixing and placing zinc phosphate cement in CL II DO cavity of lower 2nd premolar	2
18	Supervised students in mixing and placing zinc phosphate cement in CL II MO cavity of upper 1st molar and CL II MOD cavity of lower 2nd ..molar	2
19	Practical assessment for the students in zinc phosphate mixing and .placement in CL II MOD cavity on lower 1st molar	2
20	Amalgam filling of CL I cavity of lower 1st premolar	2
21	Amalgam filling of CL II cavity of lower 2nd premolar	2
22	Amalgam filling of CL II cavity of upper 1st molar	2
23	Amalgam filling of CL II MOD cavity of upper 2nd molar	2
24	Practical assessment on Amalgam filling of CL II MOD cavity of lower 1st molar	2
25	Amalgam filling of CL V cavities of upper 1st molar and lower 2nd premolar	2
26	Preparation of CL III composite cavity on upper central incisor with (composite filling placement (light cure	2
27	Preparation of CL III composite cavity on upper lateral incisor with composite filling placement (light cure	2
28	Preparation of CL V composite cavity on upper central incisor with .(composite filling placement (light cure	2
29	.Final practical assessment	2
30	Finishing and evaluation of the practical work	2
TOTAL		60

	11. Infrastructure
1. Books Required reading:	Art and science of operative dentistry Text book of endodontic.
2. Main references (sources)	As above
A- Recommended books and references (scientific journals, reports…).	
B-Electronic references, Internet sites…	Scopus

Course Description Form

1. Course Name:
Preclinical Fixed Prosthodontics
2. Course Code:
PFD343
3. Semester / Year:
3rd stage / Annual
4. Description Preparation Date:
15/ 9/ 2024
5. Available Attendance Forms:
Attendance (Theoretical + lab)
6. Number of Credit Hours (Total) / Number of Units (Total)
90 h (30 Theoretical+ 60 lab) / 4 units
7. Course administrator's name (mention all, if more than one name)
Name: lec. Saif Saad
8. Course Objectives
1- Providing the student with a cognitive skill about the basic concepts of dental fillings in general. 2- It is concerned with introducing the student to the basic components of dental filling materials. 3- Familiarity with the basics of dental fillings. 4- The correct practical medical application to reach the possibilities and the correct choice about the different types of fillings that suit different dental cases. 5- The student will have knowledge about how to deal with different cases of tooth decay. 6- Providing the student with a cognitive skill about diagnosing most dental disease cases. 7- The correct scientific guidance to reach the possibilities and the correct diagnosis. 8- Describing the appropriate treatments for diseases that affect the mouth and teeth
9. Teaching and Learning Strategies

Strategy	1. Lecture method by explanation and clarification and using PowerPoint. 2. Encouraging students to use the library as one of the learning methods. 3. Self-learning method by supporting the learner's environment. 4. Encouraging students to use the Internet as a means of supporting learning. 5. Using the principle of discussion and dialogue to increase students' comprehension. 6. Applying education through the practical part of the course.

10. Course Structure					
Week	**Hours**	**Required Learning Outcomes**	**Unit or subject name**	**Learning method**	**Evaluation method**
1	1 theoretical hours	Understand the concepts & basics	Definitions of crown	Deliver the lecture with explanation & clarification using power point	Quiz
2	1 theoretical hours	Understand the concepts & basics	Definitions of crown	Deliver the lecture with explanation & clarification using power point	Quiz
3	1 theoretical hours	Understand the concepts & basics	Biomechanical principles of tooth preparation:	Deliver the lecture with explanation & clarification using power point	Quiz
4	1 theoretical hours	Understand the concepts & basics	Biomechanical principles of tooth preparation:	Deliver the lecture with explanation & clarification using power point	Quiz
5	1 theoretical hours	Understand the concepts & basics	Biomechanical principles of tooth preparation:	Deliver the lecture with explanation & clarification using power point	Quiz
6	1 theoretical hours	Understand the concepts & basics	Full metal crown	Deliver the lecture with explanation & clarification using power point	Quiz
7	1 theoretical hours	Understand the concepts & basics	Full metal crown	Deliver the lecture with explanation & clarification using power point	Quiz

8	1 theoretical hours	Understand the concepts & basics	Porcelain fused to metal crown	Deliver the lecture with explanation & clarification using power point	1st sem. Exam
9	1 theoretical hours	Understand the concepts & basics	Porcelain fused to metal crown	Deliver the lecture with explanation & clarification using power point	Quiz
10	1 theoretical hours	Understand the concepts & basics	Complete ceramic crown (Porcelain Jacket Crown)	Deliver the lecture with explanation & clarification using power point	Quiz
11	1 theoretical hours	Understand the concepts & basics	Complete ceramic crown (Porcelain Jacket Crown)	Deliver the lecture with explanation & clarification using power point	Quiz
12	1 theoretical hours	Understand the concepts & basics	Partial veneer crown (three-quarter crown	Deliver the lecture with explanation & clarification using power point	Quiz
13	1 theoretical hours	Understand the concepts & basics	Partial veneer crown (three-quarter crown	Deliver the lecture with explanation & clarification using power point	Quiz
14	1 theoretical hours	Understand the concepts & basics	Post crown	Deliver the lecture with explanation & clarification using power point	Quiz
15	1 theoretical hours	Understand the concepts & basics	Post crown	Deliver the lecture with explanation & clarification using power point	Quiz

			Impression for crown and bridge work		
16	1 theoretical hours	Understand the concepts & basics	Impression for crown and bridge work	Deliver the lecture with explanation & clarification using power point	Quiz
17	1 theoretical hours	Understand the concepts & basics	Provisional restoration	Deliver the lecture with explanation & clarification using power point	Quiz
18	1 theoretical hours	Understand the concepts & basics	Provisional restoration	Deliver the lecture with explanation & clarification using power point	Quiz
19	1 theoretical hours	Understand the concepts & basics	Working cast and dies	Deliver the lecture with explanation & clarification using power point	Quiz
20	1 theoretical hours	Understand the concepts & basics	Working cast and dies	Deliver the lecture with explanation & clarification using power point	Quiz
21	1 theoretical hours	Understand the concepts & basics	Waxing, investing, casting	Deliver the lecture with explanation & clarification using power point	Quiz
22	1 theoretical hours	Understand the concepts & basics	Waxing, investing, casting	Deliver the lecture with explanation & clarification using power point	Quiz
23	1 theoretical hours	Understand the concepts & basics	Finishing of the casting and clinical try-in	Deliver the lecture with explanation & clarification	2nd Sem. Exam

				using power point	
24	1 theoretical hours	Understand the concepts & basics	Finishing of the casting and clinical try-in	Deliver the lecture with explanation & clarification using power point	Quiz
25	1 theoretical hours	Understand the concepts & basics	Cementation	Deliver the lecture with explanation & clarification using power point	Quiz
26	1 theoretical hours	Understand the concepts & basics	Cementation	Deliver the lecture with explanation & clarification using power point	Quiz
27	1 theoretical hours	Understand the concepts & basics	CAD /CAM Technology for crown construction	Deliver the lecture with explanation & clarification using power point	Quiz
28	1 theoretical hours	Understand the concepts & basics	CAD /CAM Technology for crown construction	Deliver the lecture with explanation & clarification using power point	Quiz
29	1 theoretical hours	Understand the concepts & basics	Definitions of crown	Deliver the lecture with explanation & clarification using power point	Quiz

Laboratory sessions

Lab number	Study unit title Preclinical Operative Dentistry	
1	Introduction on the lab work, phantom heads and teeth manikins.	2
2	Demonstration about the rotary instrument and how to cut geometrical .(cavities (Part 1	2

3	Demonstration about the rotary instrument and how to cut geometrical .(cavities (Part 2	2
4	.Demonstration on full metal crown preparation on lower 1st molar	2
5	.Demonstration on full metal crown preparation on lower 2nd molar	2
6	.Practicing lab under supervision	2
7	.Practicing lab under supervision	2
8	.Practical assessment of full metal crown preparation on lower 1st molar	2
9	Demonstration on porcelain fused to metal crown preparation on upper .central incisor	2
10	Demonstration on porcelain fused to metal crown preparation on upper	2
11	Practicing lab under supervision	2
12	Practicing lab under supervision	2
13	Practical assessment of porcelain fused to metal crown preparation on upper .central incisor	2
14	Demonstration on post crown preparation on extracted root canal filled .upper canine	2
15	Demonstration on post crown preparation on extracted root canal filled .lower 1st premolar	2
16	.Practicing lab under supervision	2
17	.Practicing lab under supervision	2
18	Practical assessment of post crown preparation on extracted root canal filled upper canine	2
19	Demonstration on special tray construction	2
20	Demonstration on impression materials used in Fixed	2
21	Demonstration on impression materials used in Fixed	2
22	.Demonstration on die construction using dowel pin	2
23	.Demonstration on provisional restoration (Part 1): Materials	2
24	.Demonstration on provisional restoration (Part2): Materials	2
25	Demonstration on direct waxing for post crown construction on upper .canine	2
26	Demonstration on indirect waxing technique	2
27	Demonstration on investing and casting	2
28	Demonstration on cleaning and finishing of the cast restoration	2
29	Final assessment of the practical work	2
30	.Final practical exam	2
TOTAL		60

11. Infrastructure	
1. Books Required reading:	Art and science of operative dentistry Text book of endodontic.
2. Main references (sources)	As above
A- Recommended books and references (scientific journals, reports…).	
B-Electronic references, Internet sites…	Scopus

Course Description Form

1. **Course Name:**	
community	
2. **Course Code:**	
CMD345	
3. **Semester / Year:**	
3rd stage / Annual	
4. **Description Preparation Date:**	
2025-2024	
5. Available Attendance Forms:	
Attendance (Theoretical+ labs)	
6. Number of Credit Hours (Total) / Number of Units (Total)	
90 hours (30 hours Theoretical +60hours lab)/4units	
7. Course administrator's name (mention all, if more than one name)	
1. assist. Prof. Azhar Amash Hussien **2. lecturer Hind Thyab Hamid** **3. assist. Lec. Sohaib Quis Alwan**	
8. Course Objectives	
1- Providing the student with a knowledge skill about the basic concepts of community dentistry in general **2- It is concerned with introducing the student to dealing with the individual within the family, with knowledge of preventive methods and the ability to diagnose and treat.** **3- Providing the student with information about achieving the connection with the patient within the family in terms of physical, social and psychological aspects.** **4- Informing the student of the necessity of coordinating with specialists in other disciplines to serve his patients and the individuals he cares for.** **5- The student's knowledge of health problems in the community and the ability to set priorities.** **6- Informing the student about the importance of community medicine for his future profession as a dentist**	
9. Teaching and Learning Strategies	
	1- Lectures with explanation and clarification using Power Point. **2- Urging students to use the library as one of the learning methods.** **3- The method of self-learning by supporting the learner's environment.** **4- Urging students to use the Internet as a supportive means of learning.** **5- Using the principle of discussion and dialogue to increase students' comprehension.** **6- Applying education through the practical part of the course.**

Course structure :

Week	Hours	Required learning	Unit or subject	Learning	Assessment Method
1	2 hour	Understand the concepts, basics and	Introduction to dental public health	Deliver the lecture with explanation &	theory exam Practical evaluation

		application		clarification using power point	
2	2 hour	Understand the concepts, basics and application	Introduction to dental public health	Deliver the lecture with explanation & clarification using power point	theory exam Practical evaluation
3	2 hour	Understand the concepts, basics and application	Epidemiology of dental caries	Deliver the lecture with explanation & clarification using power point	theory exam Practical evaluation
4	2 hour	Understand the concepts, basics and application	Epidemiology of periodontal disease	Deliver the lecture with explanation & clarification using power point	theory exam Practical evaluation
5	2 hour	Understand the concepts, basics and application	Epidemiology of malocclusion	Deliver the lecture with explanation & clarification using power point	theory exam Practical evaluation
6	2 hour	Understand the concepts, basics and application	Epidemiology of oral cancer	Deliver the lecture with explanation & clarification using power point	theory exam Practical evaluation
7	2 hour	Understand the concepts, basics and application	Dental epidemiology and survey procedures	Deliver the lecture with explanation & clarification using power point	theory exam Practical evaluation
8	2 hour	Understand the concepts, basics and application	Dental epidemiology and survey procedures	Deliver the lecture with explanation & clarification using power point	theory exam Practical evaluation
9	2 hour	Understand the concepts, basics and application	Basic epidemiology	Deliver the lecture with explanation & clarification using power point	theory exam Practical evaluation
10	2 hour	Understand the concepts, basics and application	Pit and fissure sealants	Deliver the lecture with explanation & clarification using power point	theory exam Practical evaluation
11	2 hour	Understand the concepts, basics and application	Infection control	Deliver the lecture with explanation & clarification using power point	theory exam Practical evaluation
12	2 hour	Understand the concepts, basics and application	Statistic	Deliver the lecture with explanation & clarification using power point	theory exam Practical evaluation
13	2 hour	Understand the concepts, basics and application	Epidemiological study	Deliver the lecture with explanation & clarification using power point	theory exam Practical evaluation
14	2 hour	Understand the concepts, basics and application	Dental health education	Deliver the lecture with explanation & clarification using power point	theory exam Practical evaluation
15	2 hour	Understand the concepts, basics and application	semester exam	Deliver the lecture with explanation & clarification using power point	theory exam Practical evaluation

16	2 hour	Understand the concepts, basics and application	**Mid exam**	Deliver the lecture with explanation & clarification using power point	theory exam Practical evaluation
17	2 hour	Understand the concepts, basics and application	Dental auxiliary personnel	Deliver the lecture with explanation & clarification using power point	theory exam Practical evaluation
18	2 hour	Understand the concepts, basics and application	Dental auxiliary personnel	Deliver the lecture with explanation & clarification using power point	theory exam Practical evaluation
19	2 hour	Understand the concepts, basics and application	Primary teeth (deciduous teeth)	Deliver the lecture with explanation & clarification using power point	theory exam Practical evaluation
20	2 hour	Understand the concepts, basics and application	Primary teeth care	Deliver the lecture with explanation & clarification using power point	theory exam Practical evaluation
21	2 hour	Understand the concepts, basics and application	Ethics in dentistry	Deliver the lecture with explanation & clarification using power point	theory exam Practical evaluation
22	2 hour	Understand the concepts, basics and application	Planning for manpower requirements in dental public health	Deliver the lecture with explanation & clarification using power point	theory exam Practical evaluation
23	2 hour	Understand the concepts, basics and application	Planning for manpower requirements in dental public health	Deliver the lecture with explanation & clarification using power point	theory exam Practical evaluation
24	2 hour	Understand the concepts, basics and application	Dental treatment needs, demands and utilization	Deliver the lecture with explanation & clarification using power point	theory exam Practical evaluation
25	2 hour	Understand the concepts, basics and application	Occupational hazards in dentistry	Deliver the lecture with explanation & clarification using power point	theory exam Practical evaluation
26	2 hour	Understand the concepts, basics and application	Dental public health programs	Deliver the lecture with explanation & clarification using power point	theory exam Practical evaluation
27	2 hour	Understand the concepts, basics and application	Infection control	Deliver the lecture with explanation & clarification using power point	theory exam Practical evaluation
28	2 hour	Understand the concepts, basics and application	Patient seating and examination in dental clinic	Deliver the lecture with explanation & clarification using power point	theory exam Practical evaluation
29	2 hour	Understand the concepts, basics and application	Forensic dentistry and professional ethics	Deliver the lecture with explanation & clarification using power point	theory exam Practical evaluation

30	2 hour	Understand the concepts, basics and application	Infection control	Deliver the lecture with explanation & clarification using power point	
			semester exam		
			Final exam		

Laboratory sessions

Lab number	Study unit title	Hours
1	Community dentistry	2
2	Patient's setting & examination	2
3	Clinical examination	2
4	Basic tooth numbering	2
5	examination Clinical	2
6	**Indices**	2
7	**Dental caries**	2
8	**Theories of caries formation**	2
9	**Dental caries indices**	2
10	**Clinical examination**	2
11	**Clinical examination**	2
12	**Deciduous teeth**	2
13	**Clinical examination**	2
14	**Clinical examination**	2
15	**Prevention of dental caries / part 1**	2
16	**Prevention of dental caries / part 2**	2
17	**Fluoride**	2

Course Description Form

1. Course Name:
Dental radiology
2. Course Code:
DRD347
3. Semester / Year:
3rd stage / Annual
4. Description Preparation Date:
15/9/2024
5. Available Attendance Forms:
Attendance (Theoretical + lab)
6. Number of Credit Hours (Total) / Number of Units (Total)
90 h (30 Theoretical+ 60 lab)/ 4 units
7. Course administrator's name (mention all, if more than one name)
Name: assist. lec. Dr. Bushra Kanaan Shakir Email: bushrakenaan@tu.edu.iq
8. Course Objectives
1-Building a research educational base capable of keeping pace with and absorbing the continuous and continuous development in radiology and its various applications. 2- Graduating distinguished generations capable of absorbing advanced modern technology through academic standards and local and international benchmarks. 3- Continuous development and updating of educational and research programs and keeping pace with the needs of society. 4- Commitment to academic work ethics.
9. Teaching and Learning Strategies

Strategy	1- Lectures with explanation and clarification using Power Point. 2- Urging students to use the library as one of the learning methods. 3- The method of self-learning by supporting the learner's environment. 4- Urging students to use the Internet as a supportive means of learning. 5- Using the principle of discussion and dialogue to increase students' comprehension. 6- Applying education through the practical part of the course.

10. Course Structure					
Week	**Hours**	**Required Learning Outcomes**	**Unit or subject name**	**Learning method**	**Evaluation method**
1	1 theoretical hours	Understand the concepts & basics	Physics of radiation(introduction and definitions of nature of radiation, type of radiation)	Deliver the lecture with explanation & clarification using power point	Quiz
2	1 theoretical hours	Understand the concepts & basics	Production of radiation(x-ray machine, interaction of x-ray with matter) composition of matter	Deliver the lecture with explanation & clarification using power point	Quiz
3	1 theoretical hours	Understand the concepts & basics	Film imaging (types of x-ray films, processing cycle, dark room, intensifying screen	Deliver the lecture with explanation & clarification using power point	Quiz
4	1 theoretical hours	Understand the concepts & basics	Factors controlling x-ray beam , dosimetry and invers square low	Deliver the lecture with explanation & clarification using power point	Quiz
5	1 theoretical hours	Understand the concepts & basics	Projection jeometry (sharpness, distortion, image characterstic and artifacts)	Deliver the lecture with explanation & clarification using power point	Quiz
6	1 theoretical hours	Understand the concepts & basics	Biological effects of radiatin (direct & indirect effects, determistic and stochastic effect	Deliver the lecture with explanation & clarification using power point	Quiz
7	1 theoretical hours	Understand the concepts & basics	Safety and Protection (source of exposure , dose limits , exposure and risk and reducing dental exposure)	Deliver the lecture with explanation & clarification using power point	Quiz

8	1 theoretical hours	Understand the concepts & basics	Intraoral projection (periapical, bitwing, and occlusal radiography)	Deliver the lecture with explanation & clarification using power point	1st sem. Exam
9	1 theoretical hours	Understand the concepts & basics	Digital radiography (strength , limitations , comparing with conventional radiography and indications	Deliver the lecture with explanation & clarification using power point	Quiz
10	1 theoretical hours	Understand the concepts & basics	Patient's management(mangement of pt.child, contrast media & localization technique	Deliver the lecture with explanation & clarification using power point	Quiz
11	1 theoretical hours	Understand the concepts & basics	Cephalometric imaging (technique, indications, evaluation of the Image	Deliver the lecture with explanation & clarification using power point	Quiz
12	1 theoretical hours	Understand the concepts & basics	Panoramic radiography (principels, technique ,positin and interpretation)	Deliver the lecture with explanation & clarification using power point	Quiz
13	1 theoretical hours	Understand the concepts & basics	Craniofacial imaging (types , indication and interpretation)	Deliver the lecture with explanation & clarification using power point	Quiz
14	1 theoretical hours	Understand the concepts & basics	CBCT (principles, components, strength and limitations).	Deliver the lecture with explanation & clarification using power point	Quiz
15	1 theoretical hours	Understand the concepts & basics	CBCT (clinical applications in maxillofacial region, anatomy and interpretations).	Deliver the lecture with explanation & clarification using power point	Quiz
			Mid Term Exam		

16	1 theoretical hours	Understand the concepts & basics	Radiographic anatomy part1 (teeth, supporting dentoalv. structures, maxilla and mid facial bones)	Deliver the lecture with explanation & clarification using power point	Quiz
17	1 theoretical hours	Understand the concepts & basics	Radiographic anatomy part 2(mandible, Tmj, base of skull, air way, restorative materials)	Deliver the lecture with explanation & clarification using power point	Quiz
18	1 theoretical hours	Understand the concepts & basics	Advanced imaging modalities(CT, MRI AND ULTRASOUND)	Deliver the lecture with explanation & clarification using power point	Quiz
19	1 theoretical hours	Understand the concepts & basics	Radiography &Implantology(modalities, indications)	Deliver the lecture with explanation & clarification using power point	Quiz
20	1 theoretical hours	Understand the concepts & basics	Infection control(infection control in radiography clinic, protection of pt., protection of workers)	Deliver the lecture with explanation & clarification using power point	Quiz
21	1 theoretical hours	Understand the concepts & basics	Prescibing diagnostic imaging(radiologic examination and guide lines for ordering imaging)	Deliver the lecture with explanation & clarification using power point	Quiz
22	1 theoretical hours	Understand the concepts & basics	Radiographical interpretations of common diseases(interpretation of dental caries, and periodontal disease	Deliver the lecture with explanation & clarification using power point	Quiz
23	1 theoretical hours	Understand the concepts & basics	Cysts of the jaw(odontogenic and non odontogenic cysts)	Deliver the lecture with explanation & clarification using power point	2nd Sem. Exam

24	1 theoretical hours	Understand the concepts & basics	Dental anomalies(acquired and developmental)	Deliver the lecture with explanation & clarification using power point	Quiz
25	1 theoretical hours	Understand the concepts & basics	Inflammatory conditions of the jaws(periapical inf disease, osteomyelitis, pericoronitis)	Deliver the lecture with explanation & clarification using power point	Quiz
26	1 theoretical hours	Understand the concepts & basics	Trauma(dento alveolar trauma , dental fractures and bone fructose	Deliver the lecture with explanation & clarification using power point	Quiz
27	1 theoretical hours	Understand the concepts & basics	TMJ abnormalities(anatomy of TMJ, application)	Deliver the lecture with explanation & clarification using power point	Quiz
28	1 theoretical hours	Understand the concepts & basics	Salivary gland disease (imaging modalities, interpretation)	Deliver the lecture with explanation & clarification using power point	Quiz
29	1 theoretical hours	Understand the concepts & basics	Craniofacial anomalies (Cleft lip and palat)	Deliver the lecture with explanation & clarification using power point	Quiz
30	1 theoretical hours	Understand the concepts & basics	Computed tomography(indications ,strength, limitations)	Deliver the lecture with explanation & clarification using power point	Quiz
Total	30		Final Exam		

Practical part:

week	Practical Session: Title of the project	Hours
1	Fundamentals of radiology: component of x- ray machine and production of X-ray	2
2	X-ray film (types and indication)	
3	Intraoral techniques(periapical, bite-wing and occlusal films)	2
4	Ideal radiograph.	2
5	Land marks (maxilla, mandible)	2
6	Dental panoramic radiography(indication and anatomy)	2
7	CBCT (indication and anatomy)	2
8	Cephalometric (indication and anatomy)	2
9	Commondisease (caries , PDL	2
10	Cyst(odontogenic and Cyst(odontogenic and nonodontogenic	2
11	Clinic work.	2
12	Clinic work.	2
13	Clinic work.	2
14	Clinic work.	2
15	Mid-year exam.	2
16	Clinic work.	2
17	Clinic work.	2
18	Clinic work.	2
19	Clinic work.	2
20	Clinic work.	2
21	Clinic work.	2
22	Clinic work.	2
23	Clinic work.	2
24	Clinic work.	2
25	Clinic work.	2

26	Clinic work.	2
27	Clinic work.	2
28	Clinic work.	2
29	Clinic work.	2
30	Clinic work.	2
Total		60

11. Infrastructure	
1. Books Required reading:	White and Pharoah's Oral radiology principles and interpretation. Sanjay Mallya and Ernest Lam. 8th edition. 2019, Elsevier.
2. Main references (sources)	1- Essentials of Dental Radiography and Radiology; 3rd edition, Eric Whites 2- Dental Radiography Principles and Techniques; 4th edition, Joen M. Lannucci/Laura Jansen Howerton
A- Recommended books and references (scientific journals, reports…).	
B-Electronic references, Internet sites…	

Course Description Form

1. Course Name:
Medical Pharmacology
2. Course Code:
PHC368
3. Semester / Year:
3rd stage / Annual
4. Description Preparation Date:
15\9\2024
5. Available Attendance Forms:
Lectures & labs
6. Number of Credit Hours (Total)
120 Hours / 6 units
7. Course administrator's name (mention all, if more than one name)
Name: Ass. Lec. Farah Mohammed Najeeb Email: farahalzobaie@tu.edu Ass. Prof. Waseem Ali Hasan Email: waj7@tu.edu.iq
8. Course Objectives

Course Objectives	1. Providing the student with a knowledge skill about the basic concepts of me Pharmacology in general 2. Providing the students with information about the Medical Pharmacology c the drug mechanism of action 3. Providing the student with a knowledge skill of the importance of human bc

9. Teaching and Learning Strategies

Strategy	It includes clinical case-based learning to analyze the effects of different drugs, and practical simulations of drug dosage applications. These strategies help link scientific theories to real-.world medical applications

10- Course structure (theoretical)					
Weeks	**Hours**	**Required learning outcomes**	**Unit or subject name**	**Learning method**	**Evaluation method**
1	2	Understand the concepts, basics and application	Pharmacology: Genera concepts	give lectures with explanation and clarification	Daily, Quarterly, Half-Year and Final Exams
2	2	Understand the concepts, basics and application	Pharmacokinetics and pharmacodynamics	give lectures with explanation and clarification	Daily, Quarterly, Half-Year and Final Exams
3	2	Understand the concepts, basics and application	Autonomic nervous system from a pharmacological perspective (including cholinergic agonist and antagonist)	give lectures with explanation and clarification	Daily, Quarterly, Half-Year and Final Exams
4	2	Understand the concepts, basics and application	Adrenergic agonists	give lectures with explanation and clarification	Daily, Quarterly, Half-Year and Final Exams
5	1	Understand the concepts, basics and application	Adrenergic antagonists	give lectures with explanation and clarification	Daily, Quarterly, Half-Year and Final Exams
6	2	Understand the concepts, basics and application	Antihypertensive drugs	give lectures with explanation and clarification	Daily, Quarterly, Half-Year and Final Exams
7	2	Understand the concepts, basics and application	Management of angina and heart failure	give lectures with explanation and clarification	Daily, Quarterly, Half-Year and Final Exams

8	2	Understand the concepts, basics and application	Management of arrhythmia	give lectures with explanation and clarification	Daily, Quarterly, Half-Year and Final Exams
9	2	Understand the concepts, basics and application	Anticoagulants, antiplatelet and anti-hyperlipidemic drugs	give lectures with explanation and clarification	Daily, Quarterly, Half-Year and Final Exams
10	2	Understand the concepts, basics and application	Local Hemostatic Agents in Dentistry	give lectures with explanation and clarification	Daily, Quarterly, Half-Year and Final Exams
11	2	Understand the concepts, basics and application	Introduction the pharmacology of CNS drugs, sedative, hypnotics and	give lectures with explanation and clarification	Daily, Quarterly, Half-Year and Final Exams
12	2	Understand the concepts, basics and application	Antipsychotic and antidepressant drugs	give lectures with explanation and clarification	Daily, Quarterly, Half-Year and Final Exams
13	2	Understand the concepts, basics and application	Local and general anaesthetics	give lectures with explanation and clarification	Daily, Quarterly, Half-Year and Final Exams
14	2	Understand the concepts, basics and application	Drug of abuse and opioid analgesics	give lectures with explanation and clarification	Daily, Quarterly, Half-Year and Final Exams
15	2	Understand the concepts, basics and application	Managements of diabetes mellitus	give lectures with explanation and clarification	Daily, Quarterly, Half-Year and Final Exams

16	2	Understand the concepts, basics and application	Drugs affecting GIT	give lectures with explanation and clarification	Daily, Quarterly, Half-Year and Final Exams
17	3	Understand the concepts, basics and application	(Drugs acting on respiratory system (antihistamines and corticosteroids	give lectures with explanation and clarification	Daily, Quarterly, Half-Year and Final Exams
18	2	Understand the concepts, basics and application	Non-steroidal anti-inflammatory drugs (NSAIDs) part 1	give lectures with explanation and clarification	Daily, Quarterly, Half-Year and Final Exams
19	2	Understand the concepts, basics and application	Non-steroidal anti-inflammatory drugs (NSAIDs) part2 and Steriods in Den istry	give lectures with explanation and clarification	Daily, Quarterly, Half-Year and Final Exams
20	2	Understand the concepts, basics and application	(Chemotherapeutic drugs (Principles of antimicrobial therapy	give lectures with explanation and clarification	Daily, Quarterly, Half-Year and Final Exams
21	2	Understand the concepts, basics and application	(Cell wall inhibitors (part 1	give lectures with explanation and clarification	Daily, Quarterly, Half-Year and Final Exams
22	2	Understand the concepts, basics and application	(Cell wall inhibitors (part 2	give lectures with explanation and clarification	Daily, Quarterly, Half-Year and Final Exams
23	2	Understand the concepts, basics and application	Protein synthesis inhibitors	give lectures with explanation and clarification	Daily, Quarterly, Half-Year and Final Exams

24	3	Understand the concepts, basics and application	Quinolones, Folic acid antagonists and antimycobacteria	give lectures with explanation and clarification	Daily, Quarterly, Half-Year and Final Exams
25	2	Understand the concepts, basics and application	Antifungal, antiviral and antiprotozoal drugs	give lectures with explanation and clarification	Daily, Quarterly, Half-Year and Final Exams
26	2	Understand the concepts, basics and application	Sex hormone and contraceptive	give lectures with explanation and clarification	Daily, Quarterly, Half-Year and Final Exams
27	2	Understand the concepts, basics and application	Thyroid hormones and anti-thyroid drugs	give lectures with explanation and clarification	Daily, Quarterly, Half-Year and Final Exams
28	1	Understand the concepts, basics and application	Anticancer drugs	give lectures with explanation and clarification	Daily, Quarterly, Half-Year and Final Exams
29	1	Understand the concepts, basics and application	Dental Pharmacology: drugs and chemicals used in dental clinic	give lectures with explanation and clarification	Daily, Quarterly, Half-Year and Final Exams
30	2	Understand the concepts, basics and application	Anticaries and drugs used in prevention of dental plaque	give lectures with explanation and clarification	Daily, Quarterly, Half-Year and Final Exams

10- Course structure (Practical)					
Hour	**Week**	**Required learning outcomes**	**Unit or subject name**	**Learning method**	**Evaluation method**
1	2	Understand the concepts, basics and application	Introduction and animal (e.g rabbits) handling	Daily, Quarterly, Half-Year and Final Exams	Daily, Quarterly, Half-Year and Final Exams
2	2	Understand the concepts, basics and application	Routes of drug administration (Part 1)	Daily, Quarterly, Half-Year and Final Exams	Daily, Quarterly, Half-Year and Final Exams
3	2	Understand the concepts, basics and application	Routes of drug administration (Part 2)	Daily, Quarterly, Half-Year and Final Exams	Daily, Quarterly, Half-Year and Final Exams
4	2	Understand the concepts, basics and application	Clinical parameters in drug pharmacokinetics (Part 1)	Daily, Quarterly, Half-Year and Final Exams	Daily, Quarterly, Half-Year and Final Exams
5	2	Understand the concepts, basics and application	Clinical parameters in drug pharmacokinetics (Part 2)	Daily, Quarterly, Half-Year and Final Exams	Daily, Quarterly, Half-Year and Final Exams
6	2	Understand the concepts, basics and application	Demonstration of common dosage forms used in clinical practice (Part 1)	Daily, Quarterly, Half-Year and Final Exams	Daily, Quarterly, Half-Year and Final Exams
7	2	Understand the concepts, basics and application	Demonstration of common dosage forms used in dentistry (Part 2)	Daily, Quarterly, Half-Year and Final Exams	Daily, Quarterly, Half-Year and Final Exams

8	2	Understand the concepts, basics and application	Cholinergic agonists and antagonists (Physostigmine Vs Curare)	Daily, Quarterly, Half-Year and Final Exams	Daily, Quarterly, Half-Year and Final Exams
9	2	Understand the concepts, basics and application	Effects of Drugs on Human Blood Pressure (Part 1-B-Blockers)	Daily, Quarterly, Half-Year and Final Exams	Daily, Quarterly, Half-Year and Final Exams
10	2	Understand the concepts, basics and application	Effects of Drugs on Human Blood Pressure (Part 2) (Nitrates Effect on Human volunteers	Daily, Quarterly, Half-Year and Final Exams	Daily, Quarterly, Half-Year and Final Exams
11	2	Understand the concepts, basics and application	Effects of Drugs on The Arterial Blood Pressure Of Human (Part-3)	Daily, Quarterly, Half-Year and Final Exams	Daily, Quarterly, Half-Year and Final Exams
12	2	Understand the concepts, basics and application	The effects of drugs and light on human eyes	Daily, Quarterly, Half-Year and Final Exams	Daily, Quarterly, Half-Year and Final Exams
13	2	Understand the concepts, basics and application	The effects of drugs and light on human eyes	Daily, Quarterly, Half-Year and Final Exams	Daily, Quarterly, Half-Year and Final Exams
14	2	Understand the concepts, basics and application	Effects of parasympathomimetic drugs on glandular secretions	Daily, Quarterly, Half-Year and Final Exams	Daily, Quarterly, Half-Year and Final Exams

15	2	Understand the concepts, basics and application	The response of human skin to histamine and adrenaline	Daily, Quarterly, Half-Year and Final Exams	Daily, Quarterly, Half-Year and Final Exams
16	2	Understand the concepts, basics and application	The response of human skin to histamine and adrenaline	Daily, Quarterly, Half-Year and Final Exams	Daily, Quarterly, Half-Year and Final Exams
17	2	Understand the concepts, basics and application	Evaluation of Analgesics	Daily, Quarterly, Half-Year and Final Exams	Daily, Quarterly, Half-Year and Final Exams
18	2	Understand the concepts, basics and application	Evaluation of analgesics (Opioids)	Daily, Quarterly, Half-Year and Final Exams	Daily, Quarterly, Half-Year and Final Exams
19	2	Understand the concepts, basics and application	Evaluation of Anti-inflammatory Drugs	Daily, Quarterly, Half-Year and Final Exams	Daily, Quarterly, Half-Year and Final Exams
20	2	Understand the concepts, basics and application	Evaluation of Anti-inflammatory Drugs	Daily, Quarterly, Half-Year and Final Exams	Daily, Quarterly, Half-Year and Final Exams
21	2	Understand the concepts, basics and application	Local Anaesthesia	Daily, Quarterly, Half-Year and Final Exams	Daily, Quarterly, Half-Year and Final Exams
22	2	Understand the concepts, basics and application	General Anaesthesia	Daily, Quarterly, Half-Year and Final Exams	Daily, Quarterly, Half-Year and Final Exams

23	2	Understand the concepts, basics and application	General Anaesthesia	Daily, Quarterly, Half-Year and Final Exams	Daily, Quarterly, Half-Year and Final Exams
24	2	Understand the concepts, basics and application	Prescription writing	Daily, Quarterly, Half-Year and Final Exams	Daily, Quarterly, Half-Year and Final Exams
25	2	Understand the concepts, basics and application	Prescription writing	Daily, Quarterly, Half-Year and Final Exams	Daily, Quarterly, Half-Year and Final Exams
26	2	Understand the concepts, basics and application	Prescription writing	Daily, Quarterly, Half-Year and Final Exams	Daily, Quarterly, Half-Year and Final Exams
27	2	Understand the concepts, basics and application	Oral conditions and their treatment	Daily, Quarterly, Half-Year and Final Exams	Daily, Quarterly, Half-Year and Final Exams
28	2	Understand the concepts, basics and application	Orodental preparation (part 1)	Daily, Quarterly, Half-Year and Final Exams	Daily, Quarterly, Half-Year and Final Exams
29	2	Understand the concepts, basics and application	Orodental preparation (Part 2)	Daily, Quarterly, Half-Year and Final Exams	Daily, Quarterly, Half-Year and Final Exams
30	2	Understand the concepts, basics and application	Dental health and endocarditis prevention	Daily, Quarterly, Half-Year and Final Exams	Daily, Quarterly, Half-Year and Final Exams

11- Course evaluation

12- Learning and teaching evaluation

Required textbooks (curricular books, if any)
Lippincott's Illustrated Reviews Pharmacology
Pharmacology 7th Edition
Basic and Clinical Pharmacology
12th Edition

Main references (sources)
Pharmacology at a glance
Michael J. Neal

Recommended books and references
Basic and clinical pharmacology
15 edition
(Scientific journals, reports.)
Google scholar, PubMed

Course Description Form

1. Course Name:
Dental Ethics
2. Course Code:
DNE321
3. Semester / Year:
3rd stage / Annual
4. Description Preparation Date:
15\9\2024
5. Available Attendance Forms:
Lectures
6. Number of Credit Hours (Total) / Number of Units (Total)
30h/ 2 units
7. Course administrator's name (mention all, if more than one name)
Ass. Lec. Osama Mohammed Abdel Ass. Lec. Asmaa Nouri Hamid
8. Course Objectives
-Promote ethical awareness: Educate students about the ethical principles governing the practice of dentistry and the importance of adhering to them in the profession. -Identify professional laws: Introduce students to the laws and regulations governing the profession of dentistry, including the rights and duties of the doctor towards patients. -Develop ethical skills: Provide students with the ability to analyze complex ethical cases and make professional decisions based on ethical standards. - Promote professional responsibility: Encourage students to assume ethical and social responsibility in providing health care to patients. -Respect patient privacy: Teach students how to maintain the confidentiality of patient information and protect their privacy in all professional dealings. - Motivate professional integrity: Instill the values of integrity and transparency in all aspects of dental practice, including dealing with patients, colleagues and health institutions. - Encourage professional communication: Improve effective and ethical communication skills with patients and colleagues, which enhances professional relationships and mutual trust. -Dealing with ethical disputes: Training students to deal with and resolve ethical disputes in a fair and responsible manner. -Teaching the principles of justice and fairness: Understanding the importance of providing health care to all patients in a fair and equitable manner regardless of their social or economic backgrounds

Course Structure

Lec. Number		Title	Hours	Credits
Lec. 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	1	1
Lec. 2	Professional Ethics Review	Dental ethics, professionalism, Human Rights and Law What is a "profession?" What is a "professional?" What is "professionalism?" Dentistry as a Profession Dentistry: The Commercial Picture Dentistry: The Normative Picture The Content of Professional Obligations	1	1
Lec. 3	Professional Ethics Review	What is meant by the "best interests" of our patients? What is "paternalism?" Is good risk management good ethics? What about compromising quality?	1	1
Lec. 4	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?	1	1
Lec. 5	Principal Features of Dental Ethics	What's special about Dentistry? What's special about dental ethics? Who decides what is ethical? Does dental ethics change? Does dental ethics differ from one country to another?	1	1
Lec6	Principal Features of Dental Ethics	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?	1	1

Lec. 7&8	Ethical Law and ethical Theories	History and basic ethical theory History of medical ethics Hammurabi's code of law Hippocratic 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	2	2
Lec. 9&10	Fundamental Principles of dental ethics	1- Patient autonomy 2- Non-maleficence 3- Beneficence 4- Justice 5- Veracity	2	2
Lec. 11&12	Duties and obligation of dentists	Duties and obligation of dentists In general	2	2
Lec. 13&14	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 Model The Interactive Model	2	2
Lec. 15	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**	1	1
Lec. 16	Duties and obligation of dentists	Duties of dental surgeons and specialists in consultations	1	1
Lec.17	Duties and obligation of dentists	Responsibilities of dental surgeons to one another Ideal Relationships between Co-professionals	1	1

Lec. 18&19	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	2	2
Lec. 20	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 14- Consent	1	1
Lec.21	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	1	1

		Compromised Capacity		
Lec. 22	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	1	1
Lec. 23,24	Ethics and dental research	- Importance of Dental Research - Research in Dental Practice - Ethical Requirements - Ethics Review Committee Approval	2	2
Lec. 25,26	Ethics and dental research	- Scientific Merit - Social Value - Risks and Benefits - Informed Consent - Confidentiality - Conflict of Roles - Honest Reporting of Results:	2	2
Lec. 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 a long-term goal for dental treatment.	1	1
Lec.28	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 Obligations	1	1
Lec.29	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	1	1

		The Dentist's Preferred Patterns of Practice Aesthetic Values Efficiency in the Use of Resources Ranking Dentistry's Central Values Thinking about the Case		
Lec. 30	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	1	1
Total			30	30

Course Description Form

1. Course Name:
Oral Microbiology
2. Course Code:
MCB 364
3. Semester / Year:
3rd stage / Annual
4. Description Preparation Date:
15\9\2024
5. Available Attendance Forms:
Lectures & labs
6. Number of Credit Hours (Total) / Number of Units (Total)
120 Hours/ 6 units
7. Course administrator's name (mention all, if more than one name)
Name: Asst. Prof. Dr. Chateen Izaddin A. Pambuk Prof. Dr. Hadeel Mizher Yunis / Email: dr.hadeelmi2her@tu.edu.iq - Asst.Lec. Sura Mustafa Qasim - Asst.Lec. Ranen Ibraheem Abdullah ..... Lecturer : Fatma Mustafa Muhammed ..... Email:dr.chateen@tu.edu.iq
8. Course Objectives

Course Objectives	•
	•
	•
1- To provide the student with a knowledge skill about the basic concepts of oral and medical Microbiology in general	
2- Providing the student with information about the bacteria of the mouth 4- Applied study of bacteria, basic definitions of the specification with practical requirements 5- introduce them to the importance of some oral microbes in oral diseases	
3- To provide the student with a knowledge skill of the importance of oral Microbes.	

10. Course Structure						
Week	**Hours**	**ILOs**	**Unit/Module or Topic Title**	**Practical**	**Teaching Method**	**Assessment Method**
1	4 hours 2 theoretical 2 practical	Understand the basics of the subject and application	Morphology, Ultra structures, physiology and metabolism of microorganis ms:- -Eukaryotic & Prokaryotic cells -Cell structure of prokaryotes -Comparison between G+ve & G-ve cell wall	laboratory	The method of giving lectures, explanation and clarification, and sometimes the method of discussion	daily exam and quiz
	4 hours 2 theoretical 2 practical	Understand the basics of the subject and application	Microbial growth, growth curve -Metabolism of microorganisms Molecular biology & bacterial genetics	microscope	The method of giving lectures, explanation and clarification, and sometimes the method of discussion	daily exam and quiz
	4 hours 2 theoretical 2 practical	Understand the basics of the subject and application	Disinfection	disinfection:	The method of giving lectures, explanation and clarification, and sometimes the method of discussion	daily exam and quiz
	4 hours 2 theoretical 2 practical	Understand the basics of the subject and application	-Mode of action of antibiotic -Anti-microbial sensitivity tests	growth	The method of giving lectures, explanation and clarification, and sometimes the method of discussion	daily exam and quiz
	4 hours 2 theoretical 2 practical	Understand the basics of the subject and	- - Introduction to general immunology and oral immunology	culture media	The method of giving lectures, explanation and clarification,	daily exam and quiz

		application	- Non-specific and specific immunity - Antigen - Immunoglobulin - Humeral and Cellular Immunity		and sometimes the method of discussion	
	4 hours 2 theoretical 2 practical	Understand the basics of the subject and application	- Cells and organs of the immune system - Complement system - Human leukocyte antigen - Role of complement and HLA in oral disease	test material	The method of giving lectures, explanation and clarification, and sometimes the method of discussion	daily exam and quiz
	4 hours 2 theoretical 2 practical	Understand the basics of the subject and application	- Oral and mucosal immunity - Autoimmunity and immune tolerance	ms	The method of giving lectures, explanation and clarification, and sometimes the method of discussion	daily exam and quiz
	4 hours 2 theoretical 2 practical	Understand the basics of the subject and application	- Hypersensitivity reactions - Antimicrobial and immunological defenses of saliva and fluid components	***Bacterial identification :1- Macroscopical characteristics (colonial morphology and cultural*** **chara cteristics).**	The method of giving lectures, explanation and clarification, and sometimes the method of discussion	daily exam and quiz
	4 hours 2 theoretical 2 practical	Understand the basics of the subject and application		cells).	The method of giving lectures, explanation and clarification, and sometimes the method of discussion	daily exam and quiz
	4 hours 2 theoretical	Understand the basics of		Staining	The method of giving lectures,	daily exam and quiz

	2 practical	the subject and application	streptococci		explanation and clarification, and sometimes the method of discussion	
	4 hours 2 theoretical 2 practical	Understand the basics of the subject and application	prevention	tests (part 1).	The method of giving lectures, explanation and clarification, and sometimes the method of discussion	daily exam and quiz
	4 hours 2 theoretical 2 practical	Understand the basics of the subject and application	G negative diplococcic , Vellionella and MoraxellaNeisseria gonorrhea, N. meningitidis	tests(part2).	The method of giving lectures, explanation and clarification, and sometimes the method of discussion	daily exam and quiz
	4 hours 2 theoretical 2 practical	Understand the basics of the subject and application	Lactobacilli, Actinomyces and *Corynebacterium diphtheriae* & Diphtheroids	tests(part3).	The method of giving lectures, explanation and clarification, and sometimes the method of discussion	daily exam and quiz
	4 hours 2 theoretical 2 practical	Understand the basics of the subject and application	B.ceres	test(part 1).	The method of giving lectures, explanation and clarification, and sometimes the method of discussion	daily exam and quiz
	4 hours 2 theoretical 2 practical	Understand the basics of the subject and application	Clostridium : C. perfringenis , C. tetani, C. botulinum, anddifficile	test(part 2).	The method of giving lectures, explanation and clarification, and sometimes the method of discussion	daily exam and quiz
			Mid Term Exam			
	4 hours 2 theoretical 2 practical	Understand the basics of the subject and application	Shigella,	tests) (part 1).	The method of giving lectures, explanation and clarification, and sometimes the method of discussion	daily exam and quiz
	4 hours	Understand	Enterobacter	Serological	The method of	daily exam

	2 theoretical 2 practical	the basics of the subject and application	Yersinia	tests) (part 2).	giving lectures, explanation and clarification, and sometimes the method of discussion	and quiz
	4 hours 2 theoretical 2 practical	Understand the basics of the subject and application	Leprae	test	The method of giving lectures, explanation and clarification, and sometimes the method of discussion	daily exam and quiz
	4 hours 2 theoretical 2 practical	Understand the basics of the subject and application	Haemophilus, Vibirio	i		
	4 hours 2 theoretical 2 practical	Understand the basics of the subject and application	prevotella, Bacteroids	Streptococci	The method of giving lectures, explanation and clarification, and sometimes the method of discussion	daily exam and quiz
	4 hours 2 theoretical 2 practical	Understand the basics of the subject and application	leptotichia	ium	The method of giving lectures, explanation and clarification, and sometimes the method of discussion	daily exam and quiz
			Treponema	Bacillus spp.	The method of giving lectures, explanation and clarification, and sometimes the method of discussion	daily exam and quiz
	4 hours 2 theoretical 2 practical	Understand the basics of the subject and application	Rickittsiae	spp.	The method of giving lectures, explanation and clarification, and sometimes the method of discussion	daily exam and quiz
	4 hours 2 theoretical 2 practical	Understand the basics of the subject and	-Supplemental flora -Transient flora	m spp.	The method of giving lectures, explanation and clarification,	daily exam and quiz

		application			and sometimes the method of discussion	
	4 hours 2 theoretical 2 practical	Understand the basics of the subject and application	- plaque homeostasis -cariogenic microorganisms	aceae (part1)	The method of giving lectures, explanation and clarification, and sometimes the method of discussion	daily exam and quiz
				aceae (part2)	The method of giving lectures, explanation and clarification, and sometimes the method of discussion	daily exam and quiz
	4 hours 2 theoretical 2 practical	Understand the basics of the subject and application	**Microbiology of periodontal disease and Endodontics** **-Subgingival microbial complex** **-specific , non-specific and Ecological plaque hypothesis** **- Porphyromonas, prevotella, Aggregatibacter virulencefactors of periodontal pathogens** **endodontic microbiota and Routes of root canal infection** **-ecology of endodontic microbiology**	aceae(part3)	The method of giving lectures, explanation and clarification, and sometimes the method of discussion	daily exam and quiz
	4 hours 2 theoretical 2 practical	Understand the basics of the subject and application	-classification	spp.	The method of giving lectures, explanation and clarification, and sometimes the method of	daily exam and quiz

					discussion	
	4 hours 2 theoretical 2 practical	Understand the basics of the subject and application	-Oral virology	Virology	The method of giving lectures, explanation and clarification, and sometimes the method of discussion	daily exam and quiz
	4 hours 2 theoretical 2 practical	Understand the basics of the subject and application	-E.histolotica, E.gingivalis, T.tenax -Fungal cells	Mycology	The method of giving lectures, explanation and clarification, and sometimes the method of discussion	daily exam and quiz

11. Infrastructure	
1. Books Required reading:	1- Essential microbiology for dentistry FOURTH EDITION Lakshman Samaranayake
2. Main references (sources)	1- Essential microbiology for dentistry FOURTH EDITION Lakshman Samaranayake
A- Recommended books and references (scientific journals, reports…).	
B-Electronic references, Internet sites…	2- Different internet **References**
12. The development of the curriculum plan	
The development of the curriculum plan made by : Asst. Prof. Dr. **Chateen Izaddin A. Pambuk** Prof. Dr. **Hadeel Mizher Younis** Lecturer : **Fatma Mustafa Muhammed** **Raneen Ibrahim** **Sura Mustafa**	

Course Description Form

1. Course Name:
prosthodontics
2. Course Code:
PRO349
3. Semester / Year:
Third stage/ year
4. Description Preparation Date:
2024/9/15
5. Available Attendance Forms:
Attendance (lecture+ lab)
6. Number of Credit Hours (Total) / Number of Units (Total)
96hr/ 4 units
7. Course administrator's name (mention all, if more than one name)
Lecturer Luma Nasrat
8. Course Objectives
1- Defining and understanding some important terms in the Prosthodontics 2- Practical application of practical laboratory steps for manufacturing complete dentures Graduating doctors who are fully familiar with all the materials used to make the complete Dentures
9. Teaching and Learning Strategies
1- Giving the lecture (explanation and clarification) 2- Using modern educational methods Urging the student to use the library as one of the learning methods

10. Course Structure				
Week	Hours	Unit/Module or Topic Title	Teaching Method	Assessment Method
1	2	Introduction to Removable Partial Dentures	Theoretical lecture using power point	short exam ,semester ,mid and final exam
2	2	Classification of Partially Edentulous Arches	Theoretical lecture using power point	short exam ,semester ,mid and final exam
3	2	Surveying	Theoretical lecture using power point	short exam ,semester ,mid and final exam
4	2	Surveying (continue)	Theoretical lecture using power point	short exam ,semester ,mid and final exam
5	2	Component Parts of a Removable Partial Denture	Theoretical lecture using power point	short exam ,semester ,mid and final exam
6	2	Maxillary Major Connectors	Theoretical lecture using power point	short exam ,semester ,mid and final exam
7	2	Mandibular Major Connectors	Theoretical lecture using power point	short exam ,semester ,mid and final exam
8	2	Minor Connectors	Theoretical lecture using power point	short exam ,semester ,mid and final exam
9	2	Rests and Rest Seats	Theoretical lecture using power point	short exam ,semester ,mid and final exam
10	2	Retention and Removable Partial Denture Retainers	Theoretical lecture using power point	short exam ,semester ,mid and final exam
11	2	Extra Coronal Direct Retainers(Types of clasp assemblies)	Theoretical lecture using power point	short exam ,semester ,mid and final exam
12	2	Intracoronal Direct Retainers (Internal Attachments, Precision Attachments	Theoretical lecture using power point	short exam ,semester ,mid and final exam
13	2	Stress-Breakers (Stress Equalizers)	Theoretical lecture using power point	short exam ,semester ,mid and final exam
14	2	Indirect Retainers	Theoretical lecture using power point	short exam ,semester ,mid and final exam

15	2	Indirect Retainers (continue)	Theoretical lecture using power point	short exam ,semester ,mid and final exam
16	2	Laboratory procedures in RPD construction:Blockout and Relief	Theoretical lecture using power point	short exam ,semester ,mid and final exam
17	2	Laboratory procedures in RPD construction: Duplication and Refractory Cast Construction	Theoretical lecture using power point	short exam ,semester ,mid and final exam
18	2	Laboratory procedures in RPD construction: Wax Pattern	Theoretical lecture using power point	short exam ,semester ,mid and final exam
19	2	Laboratory procedures in RPD construction: Casting and Finishing	Theoretical lecture using power point	short exam ,semester ,mid and final exam
20	2	Denture Base in RPD	Theoretical lecture using power point	short exam ,semester ,mid and final exam
21	2	Record Bases, Occlusion Rims, Mounting and Arrangement of Teeth	Theoretical lecture using power point	short exam ,semester ,mid and final exam
22	2	Biomechanics of Removable Partial Dentures	Theoretical lecture using power point	short exam ,semester ,mid and final exam
23	2	Biomechanics of Removable Partial Dentures (continue)	Theoretical lecture using power point	short exam ,semester ,mid and final exam
24	2	Principles of Removable Partial Denture Design	Theoretical lecture using power point	short exam ,semester ,mid and final exam
25	2	Principles of Removable Partial Denture Design (continue)	Theoretical lecture using power point	short exam ,semester ,mid and final exam
26	2	Clinical Phases of Removable Partial Denture Construction.	Theoretical lecture using power point	short exam ,semester ,mid and final exam
27	2	Acrylic Removable Partial Dentures	Theoretical lecture using power point	short exam ,semester ,mid and final exam
28	2	Flexible Removable Partial Dentures	Theoretical lecture using power point	short exam ,semester ,mid and final exam

29	2	Repairs and Additions to Removable	Theoretical lecture using power point	short exam ,semester ,mid and final exam
30	2	Digitally Designed & Fabrication Process of RPD Framework Using CAD/CAM System	Theoretical lecture using power point	short exam ,semester ,mid and final exam
		Practical Lab		
1	2	Introduction to Removable Partial Dentures		
2	2	Kennedy Classification		
3	2	Cast Trimming		
4	2	Surveying		
5	2	Surveying		
6	2	Wire Bending		
7	2	Wire Bending		
8	2	Acrylic Removable Partial Denture Design		
9	2	Acrylic Removable Partial Denture Laboratory Procedures		
10	2	Acrylic Removable Partial Denture Laboratory Procedures		
11	2	Flexible Partial Denture Design		
12	2	Flexible Partial Denture Laboratory Procedures		
13	2	Flexible Partial Denture Laboratory Procedures		
14	2	Flexible Partial Denture Laboratory Procedure		
15	2	Principles of 2D Design for the Removable Partial Denture		
16	2	Principles of 2D Design for the Removable Partial Denture		
17	2	Principles of Drawing 2D Design for the Removable Partial Dentures		
18	2	Principles of 2D Design for the Removable Partial Denture		
19	2	2D Design for Mandibular & Maxillary Arches		
20	2	2D Design for Mandibular & Maxillary Arches		
21	2	2D Design for Mandibular & Maxillary Arches		
22	2	Drawing Removable Partial Denture 3D Design & CAD/CAM		
23	2	Drawing Removable Partial Denture 3D Design & CAD/CAM		
24	2	Types of Rests		
25	2	Rests Seat Preparation		

Course Description Form

1.Course name
(periodontology)
2.Course code
PER452
3.semester/ year
4th stage/ Annual
4.Date of preparation of this description
2024/9/15
5.Available of attendance forms
Lectures and clinics
6.Totl number hours/ Number of credits
120hr. (30 theoretical and 90 clinical) / 5 units
7.Name of lecturers
Lect. Noor Sabah irhayyim Lect. Suha Aswad Dahash

8. Aims of the Course

1- Knowledge of the basics of diagnosing periodontal diseases.

2- Giving the student an idea of how to reach the correct diagnosis and how to develop an appropriate treatment plan

3- Enabling the student to use modern treatment methods that include non-surgical treatments.

4- Introduce the student to the methods of surgical treatment

5- Introducing the student to how to treat gum disease for people who suffer from chronic diseases, and the interactions of treatment with the health status of the

patient

6- Giving the student an idea of the modern methods of treatment represented by the use of laser in the therapeutic fields

A- Cognitive goals . A1. Cognitive goals

A1. Knowledge of the normal anatomical structure of the tissues around the teeth.

A2- Knowing the scientific and modern methods of maintaining the health of the periodontal tissues.

A3- Knowing the pathological conditions that affect the gingiva and the periodontal tissues.

A4- Knowing the diagnosis of periodontal diseases.

A5- Knowing the risk factors for gum disease and their relationship to the general health status of the patient.

A 6- Knowing the drugs that are used in the treatment of periodontal diseases

B. The skills goals special to the course.

B1. Learning methods of diagnosing gum disease and around the teeth.

B2. Discussing with the student scientifically everything related to dentistry through the study of periodontal diseases.

B 3- The student should be familiar with the methods of measuring the level of plaque and calculus, measuring periodontal inflammation, and diagnosing the presence of periodontal pockets around the teeth.

B4- the student learns to use manual machines and ultrasonic devices in the treatment of periodontal and periodontal diseases

B 5- the student learns to follow the patient's condition over several sessions and change the treatment plan according to the patient's response to treatment.

9-Teaching and Learning Methods

1-The method of giving lectures with explanation and clarification using Power Point.
2- Urging students to use the library as one of the learning methods.
3- The method of self-learning by supporting the learner's environment.
4- Urging students to use the Internet as a supportive means of learning.
5- Using the principle of discussion and dialogue to increase students' comprehension.
6- Applying education through the practical part of the course.

Assessment methods
1- Quizzes, 1st &2nd semester exam, mid-year exam and final theoretical exam. 2- Practical tests 3- Scientific discussion during the theoretical lesson and during the practical part of the course.
C. Affective and value goals C1. The student's awareness of the importance of this specialization in community service. C 2- Creating a spirit of cooperation with his colleagues and working as a team. C 3- Motivating the student towards positive trends that make him a dentist in a state of continuous development C4 - prompting him to participate in conferences and training through workshops.
Teaching and Learning Methods
- Interactive lectures by stimulating scientific discussion between teachers and students. - The use of scientific analysis, which is the head of the pyramid of knowledge. - Use of illustrations. - Motivating self-learning by reviewing the library, reviewing source books, and using the Internet to expand information.
Assessment methods
1. Panel discussions 2. Oral exams 3. Practical tests
D. General and rehabilitative transferred skills(other skills relevant to employability and personal development) D1. Skills of reading books and recent research related to the general specialty of dentistry, and the subspecialty of periodontology and how to elicit and extrapolate the information presented.
Teaching and Learning Methods

1. Conducting the practical side and attending workshops. 2. Participation as a member or researcher in scientific conferences held in his college or in a wider scope.
Assessment methods
1. Certificate of participation to attend seminars, conferences and workshops. 2. Evaluation of the discussion committees for the completed research.

10. Course Structure : Theoretical part

Week	Hours	ILOs	Unit/Module or Topic Title	Teaching Method	Assessment Method
1	1 theoretical hour	Understand the concepts & basics	Terms & definitions frequently used in periodontology	Deliver the lecture with explanation & clarification using power point	Quiz
2	1 theoretical hour	Understand the concepts & basics	Anatomy of the periodontium Oral mucosa -Gingiva	Deliver the lecture with explanation & clarification using power point	Quiz
3	1 theoretical hour	Understand the concepts & basics	Anatomy of the periodontium Periodontal ligaments (PDL)	Deliver the lecture with explanation & clarification using power point	Quiz
4	1 theoretical hour	Understand the concepts & basics	Anatomy of the periodontium Cementum	Deliver the lecture with explanation & clarification using power point	Quiz
5	1 theoretical hour	Understand the concepts & basics	Anatomy of the periodontium -Alveolar process	Deliver the lecture with explanation & clarification using power point	Quiz
6	1 theoretical hour	Understand the concepts &	Classification of periodontal diseases and conditions (2017)	Deliver the lecture with explanation & clarification using	Quiz

		basics	Reasons for classification	power point	
7	1 theoretical hour	Understand the concepts & basics	Classification of periodontal diseases and conditions (2017) -Periodontitis	Deliver the lecture with explanation & clarification using power point	**1st.Sem. Exam.**
8	1 theoretical hour	Understand the concepts & basics	Classification of periodontal diseases and conditions (2017) Other conditions affecting the periodontium	Deliver the lecture with explanation & clarification using power point	Quiz
9	1 theoretical hour	Understand the concepts & basics	Etiology of periodontal disease -Periodontal disease pathogenesis	Deliver the lecture with explanation & clarification using power point	Quiz
10	1 theoretical hour	Understand the concepts & basics	Etiology of periodontal disease and risk factors Dental plaque biofilm and periodontal microbiology	Deliver the lecture with explanation & clarification using power point	Quiz
11	1 theoretical hour	Understand the concepts & basics	Microbiologic specificity of periodontal diseases	Deliver the lecture with explanation & clarification using power point	Quiz
12	1 theoretical hour	Understand the concepts & basics	Dental calculus	Deliver the lecture with explanation & clarification using power point	Quiz
13	1 theoretical hour	Understand the concepts & basics	Dental stain	Deliver the lecture with explanation & clarification using power point	Quiz
14	1 theoretical hour	Understand the concepts & basics	Etiology of periodontal disease - Risk factors for periodontal diseases	Deliver the lecture with explanation & clarification using power point	Quiz
15	1 theoretical hour	Understand the concepts & basics	Etiology of periodontal disease - Molecular biology of host–microbe interactions	Deliver the lecture with explanation & clarification using power point	Quiz

			Mid- Year Exam		
16	1 theoretical hour	Understand the concepts & basics	Etiology of periodontal disease and risk factors - Smoking and Periodontal Disease	Deliver the lecture with explanation & clarification using power point	Quiz
17	1 theoretical hour	Understand the concepts & basics	Impact of periodontal infection on systemic health	Deliver the lecture with explanation & clarification using power point	Quiz
18	1 theoretical hour	Understand the concepts & basics	Impact of periodontal infection on systemic health	Deliver the lecture with explanation & clarification using power point	Quiz
19	1 theoretical hour	Understand the concepts & basics	Periodontal indices	Deliver the lecture with explanation & clarification using power point	Quiz
20	1 theoretical hour	Understand the concepts & basics	The periodontal pocket Classification - Clinical features - Pathogenesis - Histopathology	Deliver the lecture with explanation & clarification using power point	Quiz
21	1 theoretical hour	Understand the concepts & basics	The periodontal pocket - Periodontal disease activity	Deliver the lecture with explanation & clarification using power point	Quiz
22	1 theoretical hour	Understand the concepts & basics	Treatment plan guidelines - Phase 1 (behavior change, removal of supragingival dental biofilm and risk factor control):	Deliver the lecture with explanation & clarification using power point	**2nd Sem. Exam.**
23	1 theoretical hour	Understand the concepts & basics	Treatment plan guidelines - Phase 2 (cause-related therapy)	Deliver the lecture with explanation & clarification using power point	Quiz
24	1 theoretical hour	Understand the concepts & basics	Treatment plan guidelines - Phase 3 (corrective/surgical	Deliver the lecture with explanation & clarification using power point	Quiz

			phase)		
25	1 theoretical hour	Understand the concepts & basics	Treatment plan guidelines - Phase 4 (maintenance therapy)	Deliver the lecture with explanation & clarification using power point	Quiz
26	1 theoretical hour	Understand the concepts & basics	Plaque biofilm control for the periodontal patient	Deliver the lecture with explanation & clarification using power point	Quiz
27	1 theoretical hour	Understand the concepts & basics	Plaque biofilm control for the periodontal patient - Chemical plaque biofilm control with oral rinses	Deliver the lecture with explanation & clarification using power point	Quiz
28	1 theoretical hour	Understand the concepts & basics	Periodontal instruments and sharpening - Types of periodontal instruments	Deliver the lecture with explanation & clarification using power point	Quiz
29	1 theoretical hour	Understand the concepts & basics	Breath Malodor (Halitosis)	Deliver the lecture with explanation & clarification using power point	Quiz
30	1 theoretical hour	Understand the concepts & basics	Systemic anti-infective therapy for periodontal diseases	Deliver the lecture with explanation & clarification using power point	Quiz
Total	30hours		Final Exam.		

Course Structure (Clinical requirement)

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

11. Infrastructure	
1. Books Required reading:	**Newman and Carranza's Clinical periodontology thirteen edition**
2. Main references (sources)	.
A- Recommended books and references (scientific journals, reports…).	
B-Electronic references, Internet sites…	
12. The development of the curriculum plan	
1- Updating the content of the lectures by deleting and adding no more than 20% with up-to-date information and developing the content of the lecture. 2- Using modern teaching methods according to the nature of the course.	

Course Description Form

1. Course Name:
Prosthodontics
2. Course Code:
PRO455
3. Semester / Year:
4th stage / Annual
4. Description Preparation Date:
15/9/2024
5. Available Attendance Forms:
Attendance (lecture+ lab)
6. Number of Credit Hours (Total) / Number of Units (Total)
96hr/ 5 units
7. Course administrator's name (mention all, if more than one name)
Ali Saad
8. Course Objectives
1- Defining and understanding some important terms in the Prosthodontics 2- Practical application of practical laboratory steps for manufacturing complete dentures Graduating doctors who are fully familiar with all the materials used to make the complete Dentures
9. Teaching and Learning Strategies
1- Giving the lecture (explanation and clarification) 2- Using modern educational methods Urging the student to use the library as one of the learning methods

10. Course Structure

Week	Hours	Unit/Module or Topic Title	Teaching Method	Assessment Method
1	2	Course description, &infection control In prosthodontics	Theoretical lecture using power point	short exam ,semester ,mid and final exam

2	2	Anatomy& physiology	Theoretical lecture using power point	short exam ,semester ,mid and final exam
3	2	Myology	Theoretical lecture using power point	short exam ,semester ,mid and final exam
4	2	Diagnosis& treatment plan for RPD	Theoretical lecture using power point	short exam ,semester ,mid and final exam
5	2	Mouth preparations	Theoretical lecture using power point	short exam ,semester ,mid and final exam
6	2	Impression materials and techniques	Theoretical lecture using power point	short exam ,semester ,mid and final exam
7	2	Support and impression procedure	Theoretical lecture using power point	short exam ,semester ,mid and final exam
8	2	Framework try-in	Theoretical lecture using power point	short exam ,semester ,mid and final exam
9	2	Jaw relations and record base for RPD	Theoretical lecture using power point	short exam ,semester ,mid and final exam
10	2	Selection of teeth & setting in RPD	Theoretical lecture using power point	short exam ,semester ,mid and final exam
11	2	Try-in for RPD	Theoretical lecture using power point	short exam ,semester ,mid and final exam
12	2	Partial Denture Design II	Theoretical lecture using power point	short exam ,semester ,mid and final exam
13	2	Insertion of RPD	Theoretical lecture using power point	short exam ,semester ,mid and final exam
14	2	Post insertion problems for RPD	Theoretical lecture using power point	short exam ,semester ,mid and final exam
15	2		Theoretical lecture using power point	short exam ,semester ,mid and final exam
16	2		Theoretical lecture using power point	short exam ,semester ,mid and final exam

17	2	Patient examination for CD	Theoretical lecture using power point	short exam ,semester ,mid and final exam
18	2	Pre prosthetic Surgery	Theoretical lecture using power point	short exam ,semester ,mid and final exam
19	2	**Impressions for CD, materials and techniques**	Theoretical lecture using power point	short exam ,semester ,mid and final exam
20	2	Jaw relations, Orientation& Vertical relation II	Theoretical lecture using power point	short exam ,semester ,mid and final exam
21	2	Horizontal Jaw Relations II	Theoretical lecture using power point	short exam ,semester ,mid and final exam
22	2	Setting of teeth in abnormal Jaw relations	Theoretical lecture using power point	short exam ,semester ,mid and final exam
23	2	Try-in and Post-dam	Theoretical lecture using power point	short exam ,semester ,mid and final exam
24	2	Insertion of CD	Theoretical lecture using power point	short exam ,semester ,mid and final exam
25	2	Post insertion problems for CD	Theoretical lecture using power point	short exam ,semester ,mid and final exam

Course Description Form

1. Course Name:
Oral Pathology
2. Course Code:
OPT467
3. Semester / Year:
4th stage / Annual
4. Description Preparation Date:
15/9/2024
5. Available Attendance Forms:
Attendance (Theoretical + lab)
6. Number of Credit Hours (Total) / Number of Units (Total)
120 h(60 Theoretical+60 lab)/ 6units
7. Course administrator's name (mention all, if more than one name)
Name: assist. Lec. Fatima Gazi Aswad Email: FatimaGAswad@tu.edu.iq
8. Course Objectives
1. To give students enough information and knowledge about cell and tissue and any changes might happen. 2. To explain diagnostic tool including x ray and histopathological pictures. 3. Teaching any related signs that give a diagnosis to systemic disease. 4. Expert any abnormalities about oral cavity tissues. 5. Forensic dentistry information to be delivered 6. Knowing the importance of oral pathology science in the future
9. Teaching and Learning Strategies
1. The method of giving lectures with explanation and clarification using PowerPoint. 2. Urging students to use the library as one of the learning methods. 3. The method of self-learning by supporting the learner's environment. 4. Urging students to use the Internet as a supportive tool for learning. 5. Using the principle of discussion and dialogue to increase students' comprehension.

6. The application of education through the practical part.

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2 theoretical hours	Understanding the basics and applying them	Biopsy in oral pathology	Deliver the lecture with explanation & clarification using power point	Quiz
2	2 theoretical hours	Understanding the basics and applying them	Healing in oral pathology	Deliver the lecture with explanation & clarification using power point	Quiz
3	2 theoretical hours	Understanding the basics and applying them	Dental caries	Deliver the lecture with explanation & clarification using power point	Quiz
4	2 theoretical hours	Understanding the basics and applying them	Pulpitis	Deliver the lecture with explanation & clarification using power point	Quiz
5	2 theoretical hours	Understanding the basics and applying them	Periapical lesions	Deliver the lecture with explanation & clarification using power point	Quiz
6	2 theoretical hours	Understanding the basics and applying them	Osteomyelitis	Deliver the lecture with explanation & clarification using power point	Quiz
7	2 theoretical hours	Understanding the basics and applying them	Developmental disorder of teeth	Deliver the lecture with explanation & clarification using power	First semester exam

				point	
8	2 theoretical hours	Understanding the basics and applying them	Developmental disorder of soft and hard tissue	Deliver the lecture with explanation & clarification using power point	Quiz
9	2 theoretical hours	Understanding the basics and applying them	Non odontogenic cysts	Deliver the lecture with explanation & clarification using power point	Quiz
10	2 theoretical hours	Understanding the basics and applying them	Odontogenic cysts	Deliver the lecture with explanation & clarification using power point	Quiz
11	2 theoretical hours	Understanding the basics and applying them	Odontogenic tumors 1	Deliver the lecture with explanation & clarification using power point	Quiz
12	2 theoretical hours	Understanding the basics and applying them	Odontogenic tumors 2	Deliver the lecture with explanation & clarification using power point	Quiz
13	2 theoretical hours	Understanding the basics and applying them	Benign epithelial lesions, leukoplakia	Deliver the lecture with explanation & clarification using power point	Quiz
14	2 theoretical hours	Understanding the basics and applying them	Epithelial Hyperplasia, atrophy and dysplasia	Deliver the lecture with explanation & clarification using power point	Quiz

15	2 theoretical hours	Understanding the basics and applying them	Squamous cell carcinoma and other malignant epithelial neoplasms	Deliver the lecture with explanation & clarification using power point	Quiz
			Mid-year Exam.		
16	2 theoretical hours	Understanding the basics and applying them	Fibro osseous lesions, metabolic and genetic conditions	Deliver the lecture with explanation & clarification using power point	Quiz
17	2 theoretical hours	Understanding the basics and applying them	Giant cell lesions	Deliver the lecture with explanation & clarification using power point	Quiz
18	2 theoretical hours	Understanding the basics and applying them	Benign tumor of the bone	Deliver the lecture with explanation & clarification using power point	Quiz
19	2 theoretical hours	Understanding the basics and applying them	Malignant tumor of the bon	Deliver the lecture with explanation & clarification using power point	Quiz
20	2 theoretical hours	Understanding the basics and applying them	Viral infection	Deliver the lecture with explanation & clarification using power point	Quiz
21	2 theoretical hours	Understanding the basics and applying them	Diseases of salivary glands	Deliver the lecture with explanation & clarification using power point	Quiz

22	2 theoretical hours	Understanding the basics and applying them	Immune mediated disorder 1	Deliver the lecture with explanation & clarification using power point	Second semester exam
23	2 theoretical hours	Understanding the basics and applying them	Immune mediated disorder 2	Deliver the lecture with explanation & clarification using power point	Quiz
24	2 theoretical hours	Understanding the basics and applying them	Connective tissue lesions	Deliver the lecture with explanation & clarification using power point	Quiz
25	2 theoretical hours	Understanding the basics and applying them	Connective tissue lesions	Deliver the lecture with explanation & clarification using power point	Quiz
26	2 theoretical hours	Understanding the basics and applying them	Salivary gland disorders	Deliver the lecture with explanation & clarification using power point	Quiz
27	2 theoretical hours	Understanding the basics and applying them	Salivary gland neoplasms	Deliver the lecture with explanation & clarification using power point	Quiz
28	2 theoretical hours	Understanding the basics and applying them	Physical and chemical injuries	Deliver the lecture with explanation & clarification using power point	Quiz
29	2 theoretical hours	Understanding the basics and applying them	Hematopoietic tumors	Deliver the lecture with explanation & clarification using power point	Quiz

30	2 theoretical hours	Understanding the basics and applying them	Forensic odontology	Deliver the lecture with explanation & clarification using power point	Quiz
Total	60		Final Exam.		

Practical part:		
Lab. No.	Practical Subject Title	Hours
1	Data show and demonstration of biopsy processing	3
2	Data show about Healing in oral pathology	3
3	Acute and chronic dental caries	3
4	Acute pulpitis, chronic pulpitis and pulp polyp	
5	Periapical granuloma, cyst and abscess	3
6	Acute and chronic osteomyelitis and squestrum	3
7	Data show about developmental disorder of teeth	3
8	Data show about developmental disorder of soft tissue	3
9	Data show about non odontogenic cysts	3
10	Dentigerous cyst, kertatocyst ,calcifying odontogentic cyst and eruption cyst	3
11	Ameloblastoma,adenomatoid odontogenic tumor and odontoma	3
12	Ameloblastic fibroma odontoma	3
13	Leukoplakia, squamous cell papilloma	3
14	Epithelial dysplasia	3
15	Squamous cell carcinoma	3
16	Fibro dysplasia, ossifying fibroma	3
17	Giant cell lesions ,central and peripheral giant cell granuloma	3
18	Osteoma	3
19	Osteosarcoma	3
20	Data show about viral infection	3
21	Data show about bacterial and fungal infection	3
22	Lichen planus	3
23	Pemphigus vulgaris	3
24	Fibroma, and pyogenic granuloma	3
25	Hemangioma, and lymphangioma	3
26	Mucocele and data show	3
27	Pleomorphic adenoma and mucoepidermoid carcinoma	3
28	Data show physical and chemical injuries	3
29	Hematological neoplasms	3
30	Data show about forensic dentistry	3
Total		90

1. Infrastructure	
1. Books Required reading:	- Oral and maxillofacial pathology. Brad Neville, Douglas Damm Carl Allen and Jerry Bouquot. 4th edition. 2016, Elsevier.
2. Main references (sources)	1- Oral pathology: clinical- pathological correlations. RegeziJA, Sciubba JJ, Jordan RCK. 5th edi. 2009.
A- Recommended books and references (scientific journals, reports…).	
B-Electronic references, Internet sites…	

Course Description Form

1. Course Name:
Conservative Dentistry
2. Course Code:
CND488
3. Semester / Year:
4th stage / Annual
4. Description Preparation Date:
15/9/2024
5. Available Attendance Forms:
Attendance (Theoretical + lab)
6. Number of Credit Hours (Total) / Number of Units (Total)
210 h(30 Theoretical+180 cln)/ 8 units
7. Course administrator's name (mention all, if more than one name)
Name: pro. Dr Haithim Younis Name: assesst. Lec. Mohammed Ieaad
8. Course Objectives
7. 1. The student should be familiar with the materials and tools used in it. 8. 2. The student should be able to perform root canal fillings and dental fillings 9. 3. The ability to be familiar with the theoretical aspects of tooth preparation. 10. 4. The ability to apply this theoretical knowledge and translate it into practical treatment. 11. 5. The ability to perform root canal fillings and dental fillings on patients in the teaching clinic and after graduation. 12. 6. The ability to perform fixed dental prostheses on patients in the teaching clinic and after graduation and adhere to academic work ethics
9. Teaching and Learning Strategies
1. The method of giving lectures with explanation and clarification using PowerPoint. 2. Urging students to use the library as one of the learning methods. 3. The method of self-learning by supporting the learner's environment. 4. Urging students to use the Internet as a supportive tool for learning. 5. Using the principle of discussion and dialogue to increase students' comprehension. 6. The application of education through the practical part.

10. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2 theoretical hours	Understanding the basics and applying them	Definition of operative dentistry	Deliver the lecture with explanation & clarification using power point	Quiz
2	2 theoretical hours	Understanding the basics and applying them	Definition of operative dentistry	Deliver the lecture with explanation & clarification using power point	Quiz
3	2 theoretical hours	Understanding the basics and applying them	Instruments and general instrumentation of cavity preparation	Deliver the lecture with explanation & clarification using power point	Quiz
4	2 theoretical hours	Understanding the basics and applying them	Instruments and general instrumentation of cavity preparation	Deliver the lecture with explanation & clarification using power point	Quiz
5	2 theoretical hours	Understanding the basics and applying them	Sterilization of operative instruments	Deliver the lecture with explanation & clarification using power point	Quiz
6	2 theoretical hours	Understanding the basics and applying them	Sterilization of operative instruments	Deliver the lecture with explanation & clarification using power point	Quiz
7	2 theoretical hours	Understanding the basics and applying them	Amalgam cavity preparations for class I	Deliver the lecture with explanation & clarification using power point	First semester exam

8	2 theoretical hours	Understanding the basics and applying them	Amalgam cavity preparations for class I	Deliver the lecture with explanation & clarification using power point	Quiz
9	2 theoretical hours	Understanding the basics and applying them	Amalgam cavity preparations for class II	Deliver the lecture with explanation & clarification using power point	Quiz
10	2 theoretical hours	Understanding the basics and applying them	Amalgam cavity preparations for class II	Deliver the lecture with explanation & clarification using power point	Quiz
11	2 theoretical hours	Understanding the basics and applying them	Amalgam cavity preparations for class II (MOD)	Deliver the lecture with explanation & clarification using power point	Quiz
12	2 theoretical hours	Understanding the basics and applying them	Amalgam cavity preparations for class II (MOD)	Deliver the lecture with explanation & clarification using power point	Quiz
13	2 theoretical hours	Understanding the basics and applying them	Amalgam cavity preparations for class III and class V	Deliver the lecture with explanation & clarification using power point	Quiz
14	2 theoretical hours	Understanding the basics and applying them	Amalgam cavity preparations for class III and class V	Deliver the lecture with explanation & clarification using power point	Quiz
15	2 theoretical hours	Understanding the basics and applying them	Cavity liners and cement bases (part 1)	Deliver the lecture with explanation & clarification using power point	Quiz

			Cavity liners and cement bases (part 1)		
16	2 theoretical hours	Understanding the basics and applying them	Cavity liners and cement bases (part 2)	Deliver the lecture with explanation & clarification using power point	Quiz
17	2 theoretical hours	Understanding the basics and applying them	Cavity liners and cement bases (part 2)	Deliver the lecture with explanation & clarification using power point	Quiz
18	2 theoretical hours	Understanding the basics and applying them	Dental amalgam alloys (material)	Deliver the lecture with explanation & clarification using power point	Quiz
19	2 theoretical hours	Understanding the basics and applying them	Dental amalgam alloys (material)	Deliver the lecture with explanation & clarification using power point	Quiz
20	2 theoretical hours	Understanding the basics and applying them	Complex amalgam restoration	Deliver the lecture with explanation & clarification using power point	Quiz
21	2 theoretical hours	Understanding the basics and applying them	Complex amalgam restoration	Deliver the lecture with explanation & clarification using power point	Quiz
22	2 theoretical hours	Understanding the basics and applying them	Failures in amalgam restorations	Deliver the lecture with explanation & clarification using power point	Second semester exam

23	2 theoretical hours	Understanding the basics and applying them	Failures in amalgam restorations	Deliver the lecture with explanation & clarification using power point	Quiz
24	2 theoretical hours	Understanding the basics and applying them	Tooth colored restorations (composite)	Deliver the lecture with explanation & clarification using power point	Quiz
25	2 theoretical hours	Understanding the basics and applying them	Tooth colored restorations (composite)	Deliver the lecture with explanation & clarification using power point	Quiz
26	2 theoretical hours	Understanding the basics and applying them	Cavity preparation for anterior restorations	Deliver the lecture with explanation & clarification using power point	Quiz
27	2 theoretical hours	Understanding the basics and applying them	Cavity preparation for anterior restorations	Deliver the lecture with explanation & clarification using power point	Quiz
28	2 theoretical hours	Understanding the basics and applying them	Resin material	Deliver the lecture with explanation & clarification using power point	Quiz
29	2 theoretical hours	Understanding the basics and applying them	Resin material	Deliver the lecture with explanation & clarification using power point	Quiz
30	2 theoretical hours	Understanding the basics and applying them	Definitions of crown	Deliver the lecture with explanation & clarification using power point	Quiz

Total	60		Final Exam.		

Practical part:

Lab. No.	Practical Subject Title	Hours
1	**Clinic work.**	3
2	**Clinic work.**	3
3	**Clinic work.**	3
4	**Clinic work.**	
5	**Clinic work .**	3
6	**Clinic work.**	3
7	**Clinic work.**	3
8	**Clinic work.**	3
9	**Clinic work.**	3
10	**Clinic work.**	3
11	**Clinic work.**	3
12	**Clinic work.**	3
13	**Clinic work.**	3
14	**Clinic work.**	3
15	**Clinic work.**	3

16	**Clinic work.**	3
17	**Clinic work.**	3
18	**Clinic work.**	3
19	**Clinic work.**	3
20	**Clinic work.**	3
21	**Clinic work.**	3
22	**Clinic work.**	3
23	**Clinic work.**	3
24	**Clinic work.**	3
25	**Clinic work .**	3
26	**Clinic work.**	3
27	**Clinic work.**	3
28	**Clinic work.**	3
29	**Clinic work.**	3
30	**Clinic work.**	3
Total		90

11. Infrastructure	
1. Books Required reading:	Art and science of operative dentistry Text book of endodontic.
2. Main references (sources)	As above
A- Recommended books and references (scientific journals, reports…).	
B-Electronic references, Internet sites…	scopus

Course Description Form

1. Course Name:
Oral surgery
2. Course Code:
ORS461
3. Semester / Year:
4th stage / Annual
4. Description Preparation Date:
15-9-2024
5. Available Attendance Forms:
Attendance (Theoretical + clinic)
6. Number of Credit Hours (Total) / Number of Units (Total)
150 h (30 Theoretical+ 120 clinic)/ 6 units
7. Course administrator's name (mention all, if more than one name)
Asst lec. Ahmed abdulalkarim
8. Course Objectives
1- Preparing the student at a high level of science regarding the principles of oral and maxillofacial surgery, especially the methods of treatment of patients with systemic diseases, impacted teeth and endodontic surgery. 2- Graduating distinguished generations capable of absorbing advanced modern technology through academic standards and local and international benchmarks. 3- Continuous development and updating of educational and research programs and keeping pace with the needs of society. 4- Commitment to academic work ethics.
9. Teaching and Learning Strategies

Strategy	1- Lectures with explanation and clarification using Power Point. 2- Urging students to use the library as one of the learning methods. 3- The method of self-learning by supporting the learner's environment. 4- Urging students to use the Internet as a supportive means of learning. 5- Using the principle of discussion and dialogue to increase students' comprehension. 5- Applying education through the practical part of the course.

10. Course Structure					
Week	**Hours**	**Required Learning Outcomes**	**Unit or subject name**	**Learning method**	**Evaluation method**
1	1 theoretical hours	Understand the concepts & basics	Cardiovascular diseases	Deliver the lecture with explanation & clarification using power point	Quiz
2	1 theoretical hours	Understand the concepts & basics	Bleeding disorder	Deliver the lecture with explanation & clarification using power point	Quiz
3	1 theoretical hours	Understand the concepts & basics	Endocrinology	Deliver the lecture with explanation & clarification using power point	Quiz
4	1 theoretical hours	Understand the concepts & basics	Pulmonary diseases	Deliver the lecture with explanation & clarification using power point	Quiz
5	1 theoretical hours	Understand the concepts & basics	Liver Diseases	Deliver the lecture with explanation & clarification using power point	Quiz
6	1 theoretical hours	Understand the concepts & basics	Chronic kidney disease and dialysis	Deliver the lecture with explanation & clarification using power point	Quiz
7	1 theoretical hours	Understand the concepts & basics	Neurologic disorders	Deliver the lecture with explanation & clarification using power point	Quiz
8	1 theoretical hours	Understand the concepts & basics	Pregnancy	Deliver the lecture with explanation & clarification using power point	1st sem. Exam
9	1 theoretical hours	Understand the concepts & basics	AIDS and HIV infection	Deliver the lecture with explanation & clarification using power point	Quiz
10	1 theoretical hours	Understand the concepts & basics	Rheumatologic and connective tissue disorders	Deliver the lecture with explanation & clarification using power point	Quiz

11	1 theoretical hours	Understand the concepts & basics	Allergy	Deliver the lecture with explanation & clarification using power point	Quiz
12	1 theoretical hours	Understand the concepts & basics	Patients on radiotherapy and chemotherapy	Deliver the lecture with explanation & clarification using power point	Quiz
13	1 theoretical hours	Understand the concepts & basics	Odontogenic infections and fascial space infections	Deliver the lecture with explanation & clarification using power point	Quiz
14	1 theoretical hours	Understand the concepts & basics	Fascial space infections	Deliver the lecture with explanation & clarification using power point	Quiz
15	1 theoretical hours	Understand the concepts & basics	Principles of treatment of odontogenic infections	Deliver the lecture with explanation & clarification using power point	Quiz
			Mid Term Exam		
16	1 theoretical hours	Understand the concepts & basics	Principles of Flaps, suturing and management of difficult extraction	Deliver the lecture with explanation & clarification using power point	Quiz
17	1 theoretical hours	Understand the concepts & basics	Management of difficult extraction	Deliver the lecture with explanation & clarification using power point	Quiz
18	1 theoretical hours	Understand the concepts & basics	Principles of management of impacted teeth	Deliver the lecture with explanation & clarification using power point	Quiz
19	1 theoretical hours	Understand the concepts & basics	Impacted upper third molars	Deliver the lecture with explanation & clarification using power point	Quiz
20	1 theoretical hours	Understand the concepts & basics	Impacted mandibular canines	Deliver the lecture with explanation & clarification using power point	Quiz
21	1 theoretical hours	Understand the concepts & basics	Surgical aids to orthodontics	Deliver the lecture with explanation & clarification using power point	Quiz

22	1 theoretical hours	Understand the concepts & basics	Principles of endodontic surgery	Deliver the lecture with explanation & clarification using power point	Quiz
23	1 theoretical hours	Understand the concepts & basics	Surgical procedure	Deliver the lecture with explanation & clarification using power point	2nd Sem. Exam
24	1 theoretical hours	Understand the concepts & basics	Osteomyelitis and osteonecrosis of the jaw	Deliver the lecture with explanation & clarification using power point	Quiz
25	1 theoretical hours	Understand the concepts & basics	Radiation induced osteomyelitis and osteoradionecrosis	Deliver the lecture with explanation & clarification using power point	Quiz
26	1 theoretical hours	Understand the concepts & basics	Dental Implants: Basic Concepts and Techniques	Deliver the lecture with explanation & clarification using power point	Quiz
27	1 theoretical hours	Understand the concepts & basics	Surgical Treatment Planning Considerations	Deliver the lecture with explanation & clarification using power point	Quiz
28	1 theoretical hours	Understand the concepts & basics	Biopsy in oral and maxillofacial surgery	Deliver the lecture with explanation & clarification using power point	Quiz
29	1 theoretical hours	Understand the concepts & basics	Diagnostic imaging in oral and maxillofacial surgery	Deliver the lecture with explanation & clarification using power point	Quiz
30	1 theoretical hours	Understand the concepts & basics	Principles of treatment of odontogenic infections	Deliver the lecture with explanation & clarification using power point	Quiz
Total	30		Final Exam		

11. Infrastructure	
1. Books Required reading:	1-Little and Falaces Dental management of the medically compromised patient 9th Edition, 2018.
2. Main references (sources)	2-Contemporary oral and maxillofacial surgery 7th edition 2019 (Elsevier)
A- Recommended books and references (scientific journals, reports…).	
B-Electronic references, Internet sites…	https://dental.washington.edu/oral-pathology/case-of-the-month/ https://www.elsevier.com/open-access/open-access-journals

Practical Part:

Clinical requirement	
Extraction of teeth (simple extraction)	4 hours/ week 120 hours/ year

Course Description Form

1. Course Name:
General Surgery
2. Course Code:
GSR443
3. Semester / Year:
4th stage / Annual
4. Description Preparation Date:
15-9-2024
5. Available Attendance Forms:
Attendance (Theoretical)
6. Number of Credit Hours (Total) / Number of Units (Total)
30 hour theory/ 2 Units
7. Course administrator's name (mention all, if more than one name)
Prof.Dr. Ali Ghanim
8. Course Objectives
13. To prepare students for having a high level of scientific knowledge of general surgery and on general surgical conditions and methods of diagnosis, treatment and its relationship to their specialty as a dentist.. 14. Teaching any related signs that give a diagnosis to systemic disease.
9. Teaching and Learning Strategies
1. The method of giving lectures with explanation and clarification using PowerPoint. 2. Urging students to use the library as one of the learning methods. 3. The method of self-learning by supporting the learner's environment. 4. Urging students to use the Internet as a supportive tool for learning. 5. Using the principle of discussion and dialogue to increase students' comprehension. 6. The application of education through the practical part.

10. Course Structure					
Week	**Hours**	**Required Learning Outcomes**	**Unit or subject name**	**Learning method**	**Evaluation method**
1	1 theoretical hours	Understanding the basics and applying them	Case history	Deliver the lecture with explanation & clarification using power point	Quiz
2	1 theoretical hours	Understanding the basics and applying them	Clinical examination	Deliver the lecture with explanation & clarification using power point	Quiz
3	2 theoretical hours	Understanding the basics and applying them	Surgical wound and infections	Deliver the lecture with explanation & clarification using power point	Quiz
4	2 theoretical hours	Understanding the basics and applying them	Wound healing	Deliver the lecture with explanation & clarification using power point	Quiz
5	2 theoretical hours	Understanding the basics and applying them	Hemorrhage and blood transfusion	Deliver the lecture with explanation & clarification using power point	Quiz
6	2 theoretical hours	Understanding the basics and applying them	Fracture and dislocation of bones	Deliver the lecture with explanation & clarification using power point	Quiz
7	1 theoretical hours	Understanding the basics and applying them	Head injuries	Deliver the lecture with explanation & clarification using power point	First semester exam

8	2 theoretical hours	Understanding the basics and applying them	Parenteral feeding	Deliver the lecture with explanation & clarification using power point	Quiz
9	2 theoretical hours	Understanding the basics and applying them	Fluid and electrolytes balance	Deliver the lecture with explanation & clarification using power point	Quiz
10	2 theoretical hours	Understanding the basics and applying them	Surgical resuscitation and medical emergencies	Deliver the lecture with explanation & clarification using power point	Quiz
11	2 theoretical hours	Understanding the basics and applying them	Differential diagnosis of swelling in the neck	Deliver the lecture with explanation & clarification using power point	Quiz
			Mid-year Exam.		
12	2 theoretical hours	Understanding the basics and applying them	Diseases of the nose and Para nasal sinuses	Deliver the lecture with explanation & clarification using power point	Quiz
13	2 theoretical hours	Understanding the basics and applying them	Diseases of pharynx and larynx and esophagus	Deliver the lecture with explanation & clarification using power point	Quiz
14	2 theoretical hours	Understanding the basics and applying them	General anesthesia, pain management and postoperative care	Deliver the lecture with explanation & clarification using power point	Quiz

15	2 theoretical hours	Understanding the basics and applying them	Chest trauma and diseases	Deliver the lecture with explanation & clarification using power point	Quiz
16	2 theoretical hours	Understanding the basics and applying them	Thyroid gland and goiter	Deliver the lecture with explanation & clarification using power point	Quiz
17	2 theoretical hours	Understanding the basics and applying them	Tumors, Cyst, Ulcer & fistula	Deliver the lecture with explanation & clarification using power point	Quiz
18	2 theoretical hours	Understanding the basics and applying them	Diseases of the nose and Para nasal sinuses	Deliver the lecture with explanation & clarification using power point	Second semester exam
19	2 theoretical hours	Understanding the basics and applying them	Diseases of pharynx and larynx and esophagus	Deliver the lecture with explanation & clarification using power point	Quiz
20	2 theoretical hours	Understanding the basics and applying them	General anesthesia, pain management and postoperative care	Deliver the lecture with explanation & clarification using power point	Quiz
21	1 theoretical hours	Understanding the basics and applying them	Chest trauma and diseases	Deliver the lecture with explanation & clarification using power point	Quiz
Total	30		Final Exam.		

11. Infrastructure	
1. Books Required reading:	Baily and Love's short practice of surgery 27th edition 2018.
2. Main references (sources)	
A- Recommended books and references (scientific journals, reports…).	
B-Electronic references, Internet sites…	

Course Description Form

1. Course Name:
General Medicine
2. Course Code:
GMD444
3. Semester / Year:
4th stage / Annual
4. Description Preparation Date:
15-9-2024
5. Available Attendance Forms:
Attendance (Theoretical)
6. Number of Credit Hours (Total) / Number of Units (Total)
30 h(Theoretical) /2 units
7. Course administrator's name (mention all, if more than one name)
Dr. Mohammed Salih Alawi
8. Course Objectives
1. Gaining knowledge of human diseases .... 15. Ways to diagnosing diseases and treating them 16. The relationship of diseases to their competence as a dentist. 17. Follow the correct scientific guidance to determine the possibilities to reach the correct diagnosis.
9. Teaching and Learning Strategies
2- Urging students to use the library as one of the learning methods. 3- The method of self-learning by supporting the learner's environment. 4- Urging students to use the Internet as a supportive means of learning. 5- Using the principle of discussion and dialogue to increase students' comprehension. 6- Applying education through the practical part of the course.

10. Course Structure					
Week	**Hours**	**Required Learning Outcomes**	**Unit or subject name**	**Learning method**	**Evaluation method**
1	1 theoretical hours weekly	Understand the concepts & basics	Systemic hypertension	Deliver the lecture with explanation & clarification using power point	Quiz
2	1 theoretical hours weekly	Understand the concepts & basics	Ischemic heart disease	Deliver the lecture with explanation & clarification using power point	Quiz
3	1 theoretical hours weekly	Understand the concepts & basics	Hematemisis	Deliver the lecture with explanation & clarification using power point	Quiz
4	1 theoretical hours weekly	Understand the concepts & basics	Rheumatic fever	Lecture using power point	1st Sem. Exam.
5	1 theoretical hours weekly	Understand the concepts & basics	Infective endocarditis	Deliver the lecture with explanation & clarification using power point	Quiz
6	1 theoretical hours weekly	Understand the concepts & basics	Diseases of the heart valves	Deliver the lecture with explanation & clarification using power point	Quiz
7	1 theoretical hours weekly	Understand the concepts & basics	Hemorrhagic diseases	Deliver the lecture with explanation & clarification using power point	Quiz
8	1 theoretical hours	Understand the concepts & basics	Anemias	Deliver the lecture with explanation & clarification	Quiz

	weekly			using power point	
9	1 theoretical hours weekly	Understand the concepts & basics	Hemolytic anemia	Deliver the lecture with explanation & clarification using power point	Quiz
10	1 theoretical hours weekly	Understand the concepts & basics	Erythrocytosis and polycythemia	Deliver the lecture with explanation & clarification using power point	Quiz
11	1 theoretical hours weekly	Understand the concepts & basics	Leukemia	Deliver the lecture with explanation & clarification using power point	Quiz
12	1 theoretical hours weekly	Understand the concepts & basics	Esophagitis	Deliver the lecture with explanation & clarification using power point	Quiz
			Mid- Year Exam.		
13	1 theoretical hours weekly	Understand the concepts & basics	Acute abdomen	Deliver the lecture with explanation & clarification using power point	Quiz
14	1 theoretical hours weekly	Understand the concepts & basics	Diabetes mellitus	Deliver the lecture with explanation & clarification using power point	Quiz
15	1 theoretical hours weekly	Understand the concepts & basics	Tuberculosis	Deliver the lecture with explanation & clarification using power point	Quiz

16	1 theoretical hours weekly	Understand the concepts & basics	Symptoms of elimentary tract disease	Deliver the lecture with explanation & clarification using power point	Quiz
17	1 theoretical hours weekly	Understand the concepts & basics	Branchial asthma	Deliver the lecture with explanation & clarification using power point	Quiz
18	1 theoretical hours weekly	Understand the concepts & basics	Peptic ulcer	Deliver the lecture with explanation & clarification using power point	2nd Sem. Exam
19	1 theoretical hours weekly	Understand the concepts & basics	Jaundice	Deliver the lecture with explanation & clarification using power point	Quiz
20	1 theoretical hours weekly	Understand the concepts & basics	Diarrhea and constipation	Deliver the lecture with explanation & clarification using power point	Quiz
21	1 theoretical hours weekly	Understand the concepts & basics	Congestive heart failure	Deliver the lecture with explanation & clarification using power point	Quiz
Total	30		Final Exam.		

11. Infrastructure	
1. Books Required reading:	**Dental Management of the Medically Compromised Patient, Ninth Edition, 2018**
2. Main references (sources)	
A- Recommended books and references (scientific journals, reports…).	
B-Electronic references, Internet sites…	

Course Description Form

1. **Course Name:**
Orthodontic
2. **Course Code:**
ORT466
3. **Semester / Year:**
4th stage / Annual
4. **Description Preparation Date:**
2025-2024
5. Available Attendance Forms:
Attendance (Theoretical + lab)
6. Number of Credit Hours (Total) / Number of Units (Total)
90 h (30 Theoretical+ 60 lab)/ 4
7. Course administrator's name (mention all, if more than one name)
Name: Assist. Prof Anas Qahtan
8. Course Objectives
Preparing the student at a high level of science regarding the principles of Orthodontics, especially the methods of treatment of patients with malocclusion
9. Teaching and Learning Strategies

Strategy	**1. Lecture method by explanation and clarification and using PowerPoint.** **2. Encouraging students to use the library as one of the learning methods.** **3. Self-learning method by supporting the learner's environment.** **4. Encouraging students to use the Internet as a means of supporting learning.** **5. Using the principle of discussion and dialogue to increase students' comprehension.** **6. Applying education through the practical part of the course.**

10. Course Structure					
Week	Hours	Required learning	Unit/Module or Topic Title	Teaching Method	Assessment Method
1	1	Tutorial and slides	Introduction Definition of orthodontics Definition of occlusion, normal occlusion, ideal occlusion and malocclusion Six keys of normal occlusion	Power point lectures	Short exams, Semester,and final Exam
2	1	Tutorial and slides	Aims of orthodontic treatment 2 Orthodontic definitions (overjet, overbite, crossbite, spacing, crowding, midline deviation, rotation, displacement, proclination, retroclination, protrusion, retrusion, imbrication, overlap, impaction) – including types	Power point lectures	Short exams, Semester,and final Exam
3	1	Tutorial and slides	Classification of malocclusion a. Angle's classification including division and subdivisions	Power point lectures	Short exams, Semester, and final Exam
4	1	Tutorial and slides	b. molar, canine, incisor classifications c. classification of deciduous and mixed dentitions	Power point lectures	Short exams, Semester,and final Exam
5	1	Tutorial and slides	Growth and development Definitions of growth, development and maturity Stages of development (ovum till birth) Theories of bone growth (cartiligeneous, sutural,	Power point lectures	Short exams, Semester,and final Exam
6	1	Tutorial and slides	Definitions of growth site, growth center, displacement, and drift Growth curve and maximum growth spurt	Power point lectures	Short exams, Semester,and final Exam
7	1	Tutorial and slides	Growth and development of hard tissues (cranial base, cranial vault, 8nasomaxillary complex, 9mandible) including p10renatal and postnatal Growth and development	Power point lectures	Short exams, Semester,and final Exam

			of soft tissues (lip, nose, cheek and tongue) including prenatal and postnatal		
8	1	Tutorial and slides	Developmental anomalies Jaw rotation and adaptation	Power point lectures	Short exams, Semester,and final Exam
9	1	Tutorial and slides	Deciduous and permanent dentition Stages of tooth development: Formation, calcification and root completion	Power point lectures	Short exams, Semester,and final Exam
10	1	Tutorial and slides	Tooth eruption (stages and theories) Sequences and timing of eruption	Power point lectures	Short exams, Semester,and final Exam
11	1	Tutorial and slides	Development of occlusion a. new born oral cavity (relationship of gum pads, neonatal jaw relationships, natal and neonatal teeth) b. Deciduous dentition stage - Dental changes till 6 years of Orthodontic (jaw relationship, attrition, primary spaces)	Power point lectures	Short exams, Semester,and final Exam
12	1	Tutorial and slides	c. Early mixed dentition stage - eruption of first molars and incisors (occlusal relationships of primary and permanent molars, early mesial shift, ugly duckling stage, secondary spaces) d. Late mixed dentition stage - eruption of canines and premolars (Leeway space and late mesial shift) e. Permanent dentition - eruption second and third molars (mesial migration)	Power point lectures	Short exams, Semester,and final Exam
13	1	Tutorial and slides	Etiology of malocclusion: Genetic factors and inherited factors Classification of etiological factors a. General factors i. Skeletal (dental base and cranial base, variation of position and size of the jaws) .	Power point lectures	Short exams, Semester,and final Exam
14	1	Tutorial and slides	ii. Soft tissue (muscles of face and mastication, muscles of lip and tongue, relation to skeletal factors,	Power point lectures	Short exams, Semester,and final Exam

			abnormalities of orofacial musculature, interference with soft tissue function) iii. Tooth size and arch length relationship (Crowding and spacing) including types		
15	2	Tutorial and slides	b. Local factors: 2 i. Extra-teeth (supernumerary) and missing teeth (hypodontia) ii. Anomalies of tooth size and shape	Power point lectures	Short exams, Semester,and final Exam
16		Tutorial and slides		Power point lectures	Short exams, Semester,and final Exam
17	1	Tutorial and slides	iii. Early loss of deciduous teeth iv. Retained deciduous teeth, delayed eruption of permanent teeth, impacted teeth, ankylosis	Power point lectures	Short exams, Semester,and final Exam
18	1	Tutorial and slides	v. Abnormal eruptive behavior (displacement, transposition) vi. Large frenum (labial and lingual), periodontal diseases	Power point lectures	Short exams, Semester,and final Exam
19	1	Tutorial and slides	vii. Oral habits viii. Dental caries, improper dental restoration	Power point lectures	Short exams, Semester,and final Exam
20	1	Tutorial and slides	Tooth movement a. Tissue changes associated with tooth movement: i. Histology of periodontium ii. Theories of tooth movement (pressure tension theory, blood flow theory, and piezoelectric theory)	Power point lectures	Short exams, Semester,and final Exam
21	1	Tutorial and slides	b. Biomechanics i. Force (application, type, magnitude, duration and direction) ii. Center of resistance and rotation, moment of force and moment of couple.	Power point lectures	Short exams, Semester,and final Exam
22	1	Tutorial and slides	iii. Types of tooth movement iv. Rate of tooth movement and factors affecting it	Power point lectures	Short exams, Semester,and final Exam
23	1	Tutorial and slides	Orthodontic appliances a. Overview: i. passive orthodontic appliances	Power point lectures	Short exams, Semester,and final Exam

			(habit breaker, retainer and space maintainer) ii. active orthodontic appliances (removable, fixed, orthopedic and myofunctional, and combination)		
24	1	Tutorial and slides	b. Removable Orthodontic Appliance: i. Properties of various components (SS wire, acrylic) ii. Components: 1) active components (springs, screws and elastics)	Power point lectures	Short exams, Semester,and final Exam
25	1	Tutorial and slides	2) retentive components (clasps) 3) acrylic base plate and bite planes 4) anchorage	Power point lectures	Short exams, Semester,and final Exam
26	1	Tutorial and slides	iii. Design of a removable orthodontic appliance iv. Construction of a removable orthodontic appliance	Power point lectures	Short exams, Semester,and final Exam
27	1	Tutorial and slides	v. Soldering and welding vi. Post-insertion instructions and guidelines	Power point lectures	Short exams, Semester,and final Exam
28	1	Tutorial and slides	c. Fixed orthodontic appliance: Types, components, advantages, limitation, biomechanics, banding vs. bonding	Power point lectures	Short exams, Semester,and final Exam
29	1	Tutorial and slides	Use of extra-oral anchorage, temporary anchorage devices (TADs), and lingual fixed appliance	Power point lectures	Short exams, Semester,and final Exam
30	1	Tutorial and slides	d. Orthopedic and Myofunctional appliance: Types, components, advantages, limitation, mode of action e. Other active appliances: combination appliances, Invisalign	Power point lectures	Short exams, Semester,and final Exam
	2	Tutorial and slides	f. Retention and retainers 2 Retention (definition, reason, time) Retainers (Hawley, clear overlay, positioners, permanent fixation, precision)		Short exams, Semester,and final Exam

Clinical requirements

Lab number	Study unit title	Hours
1	Seminar 1 (Introduction to orthodontics)	4
2	Seminar 2 (Types of orthodontic appliances) (Introduction to removable appliance)	4
3	Seminar 3 (Orthodontic Pliers)	4
4	Seminar 4 (Stainless steel alloy properties)	4
5	Seminar 5 (Principles of wire bending)	4
6	Wire bending training	4
7	Z-Spring	4
8	Recurved Z-Spring	4
9	Review	4
10	Simple Finger Spring	4
11	Modified Finger Spring	4
12	Review	4
13	Buccal Canine Retractor	4
14	Modified Buccal Canine Retractor	4
15	Review	4
16	Quarterly Exam	4
17	Adams' Clasps on Upper Right 1st Molar	4
18	Adams' Clasps on Upper Left 1st Molar	4
19	Adams' Clasps on Upper Right 1st Premolar	4
20	Double Adams' Clasps on Upper Right 2nd premolar &1st molar	4
21	Review	4
22	Fitted Labial Arch	4
23	Hawley Arch	4
24	Review	4
25	Robert's Retractor	4
26	Acrylic baseplate	4
27	Soldering and Welding	4
28	Review	4
29	Quarterly Exam	4
30	Final Exam	4
Total		**120**

Course Description Form

1. **Course Name:**
Pediatric Dentistry
2. **Course Code:**
PED449
3. **Semester / Year:**
4th stage / Annual
4. **Description Preparation Date:**
15/9/2024
5. Available Attendance Forms:
Attendance (Theoretical)
6. Number of Credit Hours (Total) / Number of Units (Total)
30 hours / one hour per week
7. Course administrator's name (mention all, if more than one name)
Name: lec. Aseel taha Name: assist. Lec. Hella thamer
8. Course Objectives
1.give Information to students in a manner enabling understanding and increased knowledge regarding the diagnosis and treatment of various diseases, mouth and teeth of children 2 - giving instructions on how to deal with children of different behavior 3.Emphasize the importance of spreading awareness among parents about of terms dental health deciduous and permanent both
9. Teaching and Learning Strategies
1. The method of giving lectures with explanation and clarification using PowerPoint. 2. Urging students to use the library as one of the learning methods. 3. The method of self-learning by supporting the learner's environment. 4. Urging students to use the Internet as a supportive tool for learning. 5. Using the principle of discussion and dialogue to increase students' comprehension. 6. The application of education through the practical part.

10. Course Structure					
Week	Hours	Required learning outcomes	Unit/Module or Topic Title	Teaching Method	Assessment Method
1	1	Eruption of teeth , normal eruption process	pedodontics	Lecture presentation by power point program and educational movies	Quizzes, quarterly, mid-year and final exams
2	1	Teething and difficult eruption	pedodontics	Lecture presentation by power point program and educational movies	Quizzes, quarterly, mid-year and final exams
3	1	Eruption haematoma , sequestrum ,ectopic eruption	pedodontics	Lecture presentation by power point program and educational movies	Quizzes, quarterly, mid-year and final exams
4	1	Epstein pearls, Bohn nodules, Dental lamina cysts, Shedding of the primary teeth, Mechanism of resorption and shedding, Factors causes differences in time of eruption	pedodontics	Lecture presentation by power point program and educational movies	Quizzes, quarterly, mid-year and final exams
5	1	Systemic (disease) Factors which cause late eruption Deciduous Dentition Period, Ugly Duckling Stage	pedodontics	Lecture presentation by power point program and educational movies	Quizzes, quarterly, mid-year and final exams
6	1	Morphology of the primary teeth	pedodontics	Lecture presentation by power point	Quizzes, quarterly, mid-year and final exams

				program and educational movies	
7	1	Normal morphology of all primary teeth and their clinical consideration	pedodontics	Lecture presentation by power point program and educational movies	Quizzes, quarterly, mid-year and final exams
8	1	Morphological differences between primary and permanent teeth	pedodontics	Lecture presentation by power point program and educational movies	Quizzes, quarterly, mid-year and final exams
9	1	Functions of primary teeth	pedodontics	Lecture presentation by power point program and educational movies	Quizzes, quarterly, mid-year and final exams
10	1	Dental caries; Definition and Classification	pedodontics	Lecture presentation by power point program and educational movies	Quizzes, quarterly, mid-year and final Exams

Clinical requirement (Seminars)

No	Title	hours
1	Hypodontia among children	2
2	Anodontia among children	2
3	Rampant caries among children	2
4	Staining among children	2
5	Types of Caries removal techniques	2
6	Restoration of primary and young permanent teeth with variety types of restorative materials	2
7	Rubber dam	2
8	Minor oral surgery	2
9	Thumb sucking habits	2
10	Pulp therapy for permanent dentition	2
11	Pulp therapy for primary dentition	2
12	Materials used for pulp therapy	2
13	Crowns in pediatric dentistry	2

14	**Nail biting among children**	**2**
15	**Maintenance of pulp vitality by use of regenerative materials**	**2**
16	**Root canal treatment for anterior non vital teeth**	**2**
17	**Root canal treatment**	**2**
18	**Management of molar incisor hypomineralization MIH**	**2**
19	**Behavior management for young patients**	**2**
20	**Infection control re-assurance and guidance of students**	**2**
21	**Tooth colored restoration technique**	**2**
22	**Radiographic prescription and interpretation of results**	**2**
23	**Space maintainers**	**2**
24	**Fluoride application as a preventive measure**	**2**
25	**Cleft lip and palate**	**2**
26	**Supernumerary teeth and their impact on teeth eruption**	**2**
27	**Management of medically compromised children**	**2**
28	**Diagnosis and treatment plan**	**2**
29	**ART technique**	**2**
30	**Periodontal diseases in children**	**2**
Total		**60**

Course Description Form

1. Course Name:
Oral surgery
2. Course Code:
ORS581
3. Semester / Year:
5th stage / Annual
4. Description Preparation Date:
15-9-2024
5. Available Attendance Forms:
Attendance (Theoretical + clinic)
6. Number of Credit Hours (Total) / Number of Units (Total)
210 h (30 Theoretical+ 180 clinic)/8Units
7. Course administrator's name (mention all, if more than one name)
Assisst Prof.Dr. Mohammed Rahil Asst lec Ahmed Amer
8. Course Objectives
1- Preparing the student at a high level of science regarding the principles of oral and maxillofacial surgery, especially the methods of treatment of patients with systemic diseases, impacted teeth and endodontic surgery. 2- Graduating distinguished generations capable of absorbing advanced modern technology through academic standards and local and international benchmarks. 3- Continuous development and updating of educational and research programs and keeping pace with the needs of society. 4- Commitment to academic work ethics.
9. Teaching and Learning Strategies

Strategy	1- Lectures with explanation and clarification using Power Point. 2- Urging students to use the library as one of the learning methods. 3- The method of self-learning by supporting the learner's environment. 4- Urging students to use the Internet as a supportive means of learning. 5- Using the principle of discussion and dialogue to increase students' comprehension. 5- Applying education through the practical part of the course

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	1 theoretical hours	Understand the concepts & basics	Orofacial pain	Deliver the lecture with explanation & clarification using power point	Quiz
2	1 theoretical hours	Understand the concepts & basics	Preliminary management of patients with facial fractures	Deliver the lecture with explanation & clarification using power point	Quiz
3	1 theoretical hours	Understand the concepts & basics	Fractures of the mandible	Deliver the lecture with explanation & clarification using power point	Quiz
4	1 theoretical hours	Understand the concepts & basics	Fractures of the mandible	Deliver the lecture with explanation & clarification using power point	Quiz
5	1 theoretical hours	Understand the concepts & basics	Fractures of the middle third of facial skeleton	Deliver the lecture with explanation & clarification using power point	Quiz
6	1 theoretical hours	Understand the concepts & basics	Fractures of the middle third of facial skeleton	Deliver the lecture with explanation & clarification using power point	Quiz
7	1 theoretical hours	Understand the concepts & basics	Dentoalveolar and soft tissue injuries	Deliver the lecture with explanation & clarification using power point	Quiz
8	1 theoretical hours	Understand the concepts & basics	Preprosthetic surgery	Deliver the lecture with explanation & clarification using power point	1st sem. Exam
9	1 theoretical hours	Understand the concepts & basics	Potentially malignant disorders of the oral mucosa	Deliver the lecture with explanation & clarification using power point	Quiz
10	1 theoretical hours	Understand the concepts & basics	Odontogenic diseases of the maxillary sinus	Deliver the lecture with explanation & clarification using power point	Quiz

11	1 theoretical hours	Understand the concepts & basics	Benign cystic lesions of the oral cavity	Deliver the lecture with explanation & clarification using power point	Quiz
12	1 theoretical hours	Understand the concepts & basics	Non-odontogenic tumors and fibro-osseous lesions	Deliver the lecture with explanation & clarification using power point	Quiz
13	1 theoretical hours	Understand the concepts & basics	Oral cancer	Deliver the lecture with explanation & clarification using power point	Quiz
14	1 theoretical hours	Understand the concepts & basics	Oral cancer	Deliver the lecture with explanation & clarification using power point	Quiz
			Mid Term Exam		
16	1 theoretical hours	Understand the concepts & basics	Implant Treatment: Advanced Concepts	Deliver the lecture with explanation & clarification using power point	Quiz
17	1 theoretical hours	Understand the concepts & basics	Implant Treatment: Advanced Concepts	Deliver the lecture with explanation & clarification using power point	Quiz
18	1 theoretical hours	Understand the concepts & basics	Salivary gland diseases	Deliver the lecture with explanation & clarification using power point	Quiz
19	1 theoretical hours	Understand the concepts & basics	Salivary gland diseases	Deliver the lecture with explanation & clarification using power point	Quiz
20	1 theoretical hours	Understand the concepts & basics	Temporomandibular joint (TMJ) disorders	Deliver the lecture with explanation & clarification using power point	Quiz
21	1 theoretical hours	Understand the concepts & basics	Temporomandibular joint (TMJ) disorders	Deliver the lecture with explanation & clarification using power point	Quiz
22	1 theoretical hours	Understand the concepts & basics	Orthognathic surgery	Deliver the lecture with explanation & clarification using power point	Quiz

23	1 theoretical hours	Understand the concepts & basics	Orthognathic surgery	Deliver the lecture with explanation & clarification using power point	2nd Sem. Exam
24	1 theoretical hours	Understand the concepts & basics	Cleft lip and palate	Deliver the lecture with explanation & clarification using power point	Quiz
25	1 theoretical hours	Understand the concepts & basics	Cleft lip and palate	Deliver the lecture with explanation & clarification using power point	Quiz
26	1 theoretical hours	Understand the concepts & basics	Laser and Cryosurgery in oral and maxillofacial surgery	Deliver the lecture with explanation & clarification using power point	Quiz
27	1 theoretical hours	Understand the concepts & basics	Vascular anomalies	Deliver the lecture with explanation & clarification using power point	Quiz
28	1 theoretical hours	Understand the concepts & basics	Principles of reconstructive surgery of defects of the jaws	Deliver the lecture with explanation & clarification using power point	Quiz
29	1 theoretical hours	Understand the concepts & basics	Principles of reconstructive surgery of defects of the jaws	Deliver the lecture with explanation & clarification using power point	Quiz
30	1 theoretical hours	Understand the concepts & basics	Vascular anomalies	Deliver the lecture with explanation & clarification using power point	Quiz
Total	30		Final Exam		

11. Infrastructure	
1. Books Required reading:	1.outline of oral surgery 2000 2.Fractures of the facial skeleton 2nd edition 2015 (wily Blackwell) 3.maxillofacial surgery 3rd edition 2017(Elsever) 4.Mischs contemporary implant dentistry 4th edition 2021 (Elsever)
2. Main references (sources)	5-Contemporary oral and maxillofacial surgery 7th edition 2019 (Elsevier)
A- Recommended books and references (scientific journals, reports…).	
B-Electronic references, Internet sites…	https://dental.washington.edu/oral-pathology/case-of-th month/ https://www.elsevier.com/open-access/open-access-journals

:

Practical Part:	
Extraction of teeth (simple extraction)	6 hours/ week 180 hours/ year
Surgical extraction of teeth Surgical assistant in minor oral surgery and dental implants	

Course Description Form

1.Course name
(periodontology)
2.Course code
PER552
3.semester/ year
5th stage / Annual
4.Date of preparation of this description
2024/9/15
5.Available of attendance forms
Lectures and clinics
6.Totl number hours/ Number of credits
120hr. (30 theoretical and 90 clinical)/5 units
7.Name of lecturers
Assist prof. Muhammed Ibrahem Ai Hazeem Lect. Dr. Hadeel Muhammed Abood

8. Aims of the Course
1- Knowledge of the basics of diagnosing periodontal diseases. 2- Giving the student an idea of how to reach the correct diagnosis and how to develop an appropriate treatment plan 3- Enabling the student to use modern treatment methods that include non-surgical treatments. 4- Introduce the student to the methods of surgical treatment 5- Introducing the student to how to treat gum disease for people who suffer from chronic diseases, and the interactions of treatment with the health status of the patient

9· Learning Outcomes, Teaching ,Learning and Assessment Method

1-The method of giving lectures with explanation and clarification using Power Point.

2- Urging students to use the library as one of the learning methods.

3- The method of self-learning by supporting the learner's environment.

4- Urging students to use the Internet as a supportive means of learning.

5- Using the principle of discussion and dialogue to increase students' comprehension

A- Cognitive goals .
A1. Knowledge of the normal anatomical structure of the tissues around the teeth.
A2- Knowing the scientific and modern methods of maintaining the health of the periodontal tissues.
A3- Knowing the pathological conditions that affect the gingiva and the periodontal tissues.
A4- Knowing the diagnosis of periodontal diseases.
A5- Knowing the risk factors for gum disease and their relationship to the general health status of the patient.
A 6- Knowing the drugs that are used in the treatment of periodontal diseases

B. The skills goals special to the course.

. B1. Learning methods of diagnosing gum disease and around the teeth.
B2. Discussing with the student scientifically everything related to dentistry through the study of periodontal diseases.
B 3- The student should be familiar with the methods of measuring the level of plaque and calculus, measuring periodontal inflammation, and diagnosing the presence of periodontal pockets around the teeth.
B4- the student learns to use manual machines and ultrasonic devices in the treatment of periodontal and periodontal diseases
B 5- the student learns to follow the patient's condition over several sessions and change the treatment plan according to the patient's response to treatment.

Teaching and Learning Methods

1- The method of giving lectures with explanation and clarification using Power Point.
2- Urging students to use the library as one of the learning methods.
3- The method of self-learning by supporting the learner's environment.
4- Urging students to use the Internet as a supportive means of learning.
5- Using the principle of discussion and dialogue to increase students' comprehension.

6- Applying education through the practical part of the course.

Assessment methods

1- Quizzes, 1st &2nd semester, mid-year and final theoretical exams.
2- Practical tests
3- Scientific discussion during the theoretical lesson and during the practical part of the course.

C. Affective and value goals

C1. The student's awareness of the importance of this specialization in community service.
C 2- Creating a spirit of cooperation with his colleagues and working as a team.
C 3- Motivating the student towards positive trends that make him a dentist in a state of continuous development
C4 - prompting him to participate in conferences and training through workshops.

Teaching and Learning Methods

- Interactive lectures by stimulating scientific discussion between teachers and students.
- The use of scientific analysis, which is the head of the pyramid of knowledge.
- Use of illustrations.
- Motivating self-learning by reviewing the library, reviewing source books, and using the Internet to expand information.

Assessment methods

1. Panel discussions
2. Oral exams
3. Practical tests

D. General and rehabilitative transferred skills(other skills relevant to employability and personal development)

D1. Skills of reading books and recent research related to the general specialty of dentistry, and the subspecialty of periodontology and how to elicit and extrapolate the information presented

Teaching and Learning Methods

1. Conducting the practical side and attending workshops. 2. Participation as a member or researcher in scientific conferences held in his college or in a wider scope.
Assessment methods
1. Certificate of participation to attend seminars, conferences and workshops. 2. Evaluation of the discussion committees for the completed research.

10. Course Structure/ Theoretical part					
Week	Hours	ILOs	Unit/Module or Topic Title	Teaching Method	Assessment Method
1	1 theoretical hour	Understand the concepts & basics	Periodontal examination and diagnosis - Overall appraisal of the patient - Medical history - Dental history	Deliver the lecture with explanation & clarification using power point	Quiz
2	1 theoretical hour	Understand the concepts & basics	Bone loss and patterns of bone destruction	Deliver the lecture with explanation & clarification using power point	Quiz
3	1 theoretical hour	Understand the concepts & basics	Radiographic aids in the diagnosis of periodontal disease	Deliver the lecture with explanation & clarification using power point	Quiz
4	1 theoretical hour	Understand the concepts & basics	Advanced diagnosis	Deliver the lecture with explanation & clarification using power point	Quiz
5	1 theoretical hour	Understand the concepts &	Periodontal response to external forces	Deliver the lecture with explanation & clarification using	Quiz

		basics		power point	
6	1 theoretical hour	Understand the concepts & basics	Immunology Innate immunity	Deliver the lecture with explanation & clarification using power point	Quiz
7	1 theoretical hour	Understand the concepts & basics	Immunology - Adaptive immunity	Deliver the lecture with explanation & clarification using power point	Quiz
8	1 theoretical hour	Understand the concepts & basics	Tooth mobility	Deliver the lecture with explanation & clarification using power point	**1st sem. Exam**
9	1 theoretical hour	Understand the concepts & basics	Epidemiology of periodontal diseases	Deliver the lecture with explanation & clarification using power point	Quiz
10	1 theoretical hour	Understand the concepts & basics	Determination of prognosis	Deliver the lecture with explanation & clarification using power point	Quiz
11	1 theoretical hour	Understand the concepts & basics	Interrelationships of periodontal disease and therapy with other dental disciplines	Deliver the lecture with explanation & clarification using power point	Quiz
12	1 theoretical hour	Understand the concepts & basics	Periodontal surgery. General principles	Deliver the lecture with explanation & clarification using power point	Quiz
13	1 theoretical hour	Understand the concepts & basics	Sonic and ultrasonic instrumentation and irrigation	Deliver the lecture with explanation & clarification using power point	Quiz
14	1 theoretical hour	Understand the concepts & basics	Gingivectomy and local excision	Deliver the lecture with explanation & clarification using power point	Quiz

15	1 theoretical hour	Understand the concepts & basics	Flap surgery	Deliver the lecture with explanation & clarification using power point	Quiz
			Mid Term Exam		
16	1 theoretical hour	Understand the concepts & basics	Mucogingival and aesthetic surgery	Deliver the lecture with explanation & clarification using power point	Quiz
17	1 theoretical hour	Understand the concepts & basics	Furcation: involvement and treatment	Deliver the lecture with explanation & clarification using power point	Quiz
18	1 theoretical hour	Understand the concepts & basics	Laser therapy	Deliver the lecture with explanation & clarification using power point	Quiz
19	1 theoretical hour	Understand the concepts & basics	Locally delivered, controlled-release antimicrobials	Deliver the lecture with explanation & clarification using power point	Quiz
20	1 theoretical hour	Understand the concepts & basics	Management of medically compromised patients	Deliver the lecture with explanation & clarification using power point	Quiz
21	1 theoretical hour	Understand the concepts & basics	Management of medically compromised patients	Deliver the lecture with explanation & clarification using power point	Quiz
22	1 theoretical hour	Understand the concepts & basics	Gingival crevicular fluid (GCF)	Deliver the lecture with explanation & clarification using power point	Quiz
23	1 theoretical hour	Understand the concepts & basics	Dentin hypersensitivity 605.e1	Deliver the lecture with explanation & clarification using power point	**2nd Sem. Exam**

24	1 theoretical hour	Understand the concepts & basics	Tissue regeneration. General principles Periodontal Wound Healing	Deliver the lecture with explanation & clarification using power point	Quiz
25	1 theoretical hour	Understand the concepts & basics	Regenerative periodontal therapy	Deliver the lecture with explanation & clarification using power point	Quiz
26	1 theoretical hour	Understand the concepts & basics	Reconstructive surgical techniques	Deliver the lecture with explanation & clarification using power point	Quiz
27	1 theoretical hour	Understand the concepts & basics	Advanced regenerative approaches	Deliver the lecture with explanation & clarification using power point	Quiz
28	1 theoretical hour	Understand the concepts & basics	Oral implantology	Deliver the lecture with explanation & clarification using power point	Quiz
29	1 theoretical hour	Understand the concepts & basics	Oral implantology	Deliver the lecture with explanation & clarification using power point	Quiz
30	1 theoretical hour	Understand the concepts & basics	Oral implantology Supportive implant treatment	Deliver the lecture with explanation & clarification using power point	Quiz
Total	30		**Final Exam**		

Course Structure (Clinical requirement)

Credit hours required	Details
3 h/week (90 h/year)	**Clinical** Recording medical and dental history -Patient's education and motivation -Oral hygiene instructions (OHI) Recording periodontal indices Bleeding on probing (BOP) Plaque index (% of plaque) Probing pocket depth (PPD) Clinical attachment loss (CAL) -For periodontitis cases, determination of bone loss level by radiograph or clinically -Diagnosis according to classification of periodontal disease and conditions (2017) -Non-surgical periodontal therapy (manual/ultrasonic scaling, root planing) and removal of all plaque retentive factors -Referral of cases that potentially requiring surgical therapy -Maintenance and follow-up after 3 months **Requirements** -Recording periodontal indices and diagnosis (min= 15) -Non-surgical periodontal treatment Scaling (min= 8) Root planning (min= 3 teeth) Periodontal surgery assistant (one case optional)

11. Infrastructure	
1. Books Required reading:	Newman and Carranza's Clinical Periodontology thirteen edition
2. Main references (sources)	
A- Recommended books and references (scientific journals, reports…).	
B-Electronic references, Internet sites…	

12. The development of the curriculum plan
1- Updating the content of the lectures by deleting and adding no more than 20% with up-to-date information and developing the content of the lecture. 2- Using modern teaching methods according to the nature of the course.

Course Description Form

1. Course Name:
Prosthodontics
2. Course Code:
PRO585
3. Semester / Year:
5th stage / Annual
4. Description Preparation Date:
15/ 9/ 2024
5. Available Attendance Forms:
Attendance (lecture+ lab)
6. Number of Credit Hours (Total) / Number of Units (Total)
30 &180hrs/ 8 Units
7. Course administrator's name (mention all, if more than one name)
Lecturer Dr. Safwan Abd-Alhameed
8. Course Objectives
1- Defining and understanding some important terms in the Prosthodontics 2- Practical application of practical laboratory steps for manufacturing complete dentures Graduating doctors who are fully familiar with all the materials used to make the complete Dentures
9. Teaching and Learning Strategies
1- Giving the lecture (explanation and clarification) 2- Using modern educational methods Urging the student to use the library as one of the learning methods

10. Course Structure					
Week	Hours	ILOs	Unit/Module or Topic Title	Teaching Method	Assessment Method
1	1hour theoretical 2hour practical		**Occlusion in Complete Denture**	Lecture / ppt	Questions and discussion
2	1hour theoretical 2hour practical		**Occlusion in Complete Denture (Continue)**	Lecture / ppt	Questions and discussion
3	1hour theoretical 2hour practical		**Retention, Stability and Support**	Lecture / ppt	Questions and discussion
4	1hour theoretical 2hour practical		**Retention, Stability and Support (Continue)**	Lecture / ppt	Questions and discussion
5	1hour theoretical 2hour practical		**Post Insertion Problems**	Lecture / ppt	Questions and discussion
5	1hour theoretical 2hour practical		**Post Insertion Problems (Continue)**	Lecture / ppt	Questions and discussion
7	1hour theoretical 2hour practical		**Complications Of Complete Denture**	Lecture / ppt	Questions and discussion
8	1hour theoretical 2hour practical		**Complications Of Complete Denture (Continue)**	Lecture / ppt	Questions and discussion
9	1hour theoretical 2hour practical		**Immediate Denture**	Lecture / ppt	Questions and discussion
10	1hour theoretical 2hour practical		**Immediate Denture (Continue)**	Lecture / ppt	Questions and discussion
11	1hour theoretical		**Classification system for completely**	Lecture / ppt	Questions and discussion

	2hour practical		**edentulous patients**		
12	1hour theoretical 2hour practical		**Classification system for completely edentulous patients (Continue)**	Lecture / ppt	Questions and discussion
13	1hour theoretical 2hour practical		**Posterior palatal seal area**	Lecture / ppt	Questions and discussion
14	1hour theoretical 2hour practical		**Single CD**	Lecture / ppt	Questions and discussion
15	1hour theoretical 2hour practical		**Single CD (Continue)**	Lecture / ppt	Questions and discussion
16			**Geriatric dentistry**		
17			**Maxillofacial Prosthesis**		
18	1hour theoretical 2hour practical		**Maxillofacial Prosthesis (Continue)**	Lecture / ppt	Questions and discussion
19	1hour theoretical 2hour practical		**Residual Ridge resorption**	Lecture / ppt	Questions and discussion
20	1hour theoretical 2hour practical		**Residual Ridge resorption (Continue)**	Lecture / ppt	Questions and discussion
21	1hour theoretical 2hour practical		**Dental implantology**	Lecture / ppt	Questions and discussion
22	1hour theoretical 2hour practical		**Dental implantology (Continue)**	Lecture / ppt	Questions and discussion
23	1hour theoretical 2hour practical		**Esthetics in CD**	Lecture / ppt	Questions and discussion
24	1hour theoretical 2hour practical		**Characteristics Of Ideal Materials For Dental Implant**	Lecture / ppt	Questions and discussion

25	1hour theoretical 2hour practical		**Copy denture**	Lecture / ppt	Questions and discussion
26	1hour theoretical 2hour practical		**Over Denture**	Lecture / ppt	Questions and discussion
27	1hour theoretical 2hour practical		**Over Denture (Continue)**	Lecture / ppt	Questions and discussion
28	1hour theoretical 2hour practical		**Neutral zone in CD**	Lecture / ppt	Questions and discussion
29	1hour theoretical 2hour practical		**Attachments in over denture**	Lecture / ppt	Questions and discussion
30	1hour theoretical 2hour practical		**Attachments in over denture (Continue)**	Lecture / ppt	Questions and discussion

11. Infrastructure	
1. Books Required reading:	**1. Zarb, Hobkirk, Eckert, Jacob et al. "Prosthodontic treatment for edentulous patients: Complete dentures and implant-supported prostheses" 13th edition 2013 by Mosby, Elsevier Inc.** **2. Golden and Driscoll. "Treating the complete denture patient" 1st edition 2020 John Wiley & Sons, Inc.** **3. Rahn, Ivanhoe and Plummer. "Textbook of complete dentures" 6th edition 2009 People's Medical. Publishing House-USA.**
2. Main references (sources)	**Articles**
B-Electronic references, Internet sites…	**Google schooler and you tube**
12. The development of the curriculum plan	
It will be replaced, added and deleted to develop the academic scientific content	

Course Description Form

1. Course Name:
Conservative Dentistry
2. Course Code:
CND588
3. Semester / Year:
5th stage / Annual
4. Description Preparation Date:
15/ 9/ 2024
5. Available Attendance Forms:
Attendance (Theoretical+ clinic)
6. Number of Credit Hours (Total) / Number of Units (Total)
210 h(30 Theoretical + 120 clinic) /8 Units
7. Course administrator's name (mention all, if more than one name)
Pro. Dr. Huda Abass Lec.Dr. Ahmad Ibrahem Lec. Saif Saad assist. Lec. Al-ala jammal
8. Course Objectives
1. The student should be familiar with the materials and tools used in it. 2. The student should be able to perform root canal fillings and dental fillings 3. The ability to be familiar with the theoretical aspects of tooth preparation. 4. The ability to apply this theoretical knowledge and translate it into practical treatment. 5. The ability to perform root canal fillings and dental fillings on patients in the teaching clinic and after graduation. 1. The ability to perform fixed dental prostheses on patients in the teaching clinic and after graduation and adhere to academic work ethics
9. Teaching and Learning Strategies
2- Urging students to use the library as one of the learning methods. 3- The method of self-learning by supporting the learner's environment. 4- Urging students to use the Internet as a supportive means of learning. 5- Using the principle of discussion and dialogue to increase students' comprehension.

6- Applying education through the practical part of the course.

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
	2 theoretical hours weekly				
1	2 theoretical hours weekly	Understand the concepts & basics	Terminology, definition of fixed partial denture , Effect of Tooth Loss, Comparism with R.P.D	Deliver the lecture with explanation & clarification using power point	Quiz
2	2 theoretical hours weekly	Understand the concepts & basics	Types of Fixed Bridge including Basic Bridge Design	Deliver the lecture with explanation & clarification using power point	Quiz
3	2 theoretical hours weekly	Understand the concepts & basics	Components of Fixed Bridge; ♦ Retainers.----------	Deliver the lecture with explanation & clarification using power point	Quiz
4	2 theoretical hours weekly	Understand the concepts & basics	Components of Fixed Bridge; ♦ Pontics ♦ Connectors.----------	Lecture using power point	1st Sem. Exam.
5	2 theoretical hours weekly	Understand the concepts & basics	♦ Clinical Consideration for Bridge Construction.- _Abutment Tooth(evaluation and selection) _Crown/Root Ratio. _Splinting of teeth. _Patient Occlusal Status. _General Factors	Deliver the lecture with explanation & clarification using power point	Quiz
6	2 theoretical hours	Understand the concepts & basics	♦ Clinical Situations affecting Bridge Design; ♦ (Post. Tilted Abutments, Span	Deliver the lecture with explanation & clarification	Quiz

	weekly		Length, Pier Abut., Arch curvature	using power point	
7	2 theoretical hours weekly	Understand the concepts & basics	Resin bonded bridge	Deliver the lecture with explanation & clarification using power point	Quiz
8	2 theoretical hours weekly		♦ Diagnosis And Treatment Plan. a. Intra-oral Examination. b. X-Rays Examination. c. Diagnostic Cast Examination	Deliver the lecture with explanation & clarification using power point	Quiz
9	2 theoretical hours weekly	Understand the concepts & basics	♦ Gingival retraction and impression(techniques) and impression disinfection	Deliver the lecture with explanation & clarification using power point	Quiz
10	2 theoretical hours weekly	Understand the concepts & basics	♦ provisional Restoration , Oclussion and Aesthetics (Principles of occlusion occlusal plane, Anterior guidance) Bite Registeration, and Articulation	Deliver the lecture with explanation & clarification using power point	Quiz
11	2 theoretical hours weekly	Understand the concepts & basics	provisional Restoration , Oclussion and Aesthetics (Principles of occlusion occlusal plane, Anterior guidance) Bite Registeration, and Articulation	Deliver the lecture with explanation & clarification using power point	Quiz
12	2 theoretical hours weekly	Understand the concepts & basics	♦ Try-in and Shade Selection (Colour dimensions Hue,Chroma,and Value)	Deliver the lecture with explanation & clarification using power point	Quiz
13	2 theoretical hours weekly	Understand the concepts & basics	♦ Final Cementation of F.P.Ds.(Techniques)	Deliver the lecture with explanation & clarification using power	Quiz

				point	
14	2 theoretical hours weekly	Understand the concepts & basics	♦ Failure in Fixed Prosthodontics.	Deliver the lecture with explanation & clarification using power point	Quiz
15	2 theoretical hours weekly	Understand the concepts & basics	Porcelain in Fixed Prosthodontics (Current Ceramic).	Deliver the lecture with explanation & clarification using power point	Quiz
	2 theoretical hours weekly	Understand the concepts & basics	**امتحان نصف السنة**	Deliver the lecture with explanation & clarification using power point	Quiz
16	2 theoretical hours weekly	Understand the concepts & basics	Endodontic diagnosis	Deliver the lecture with explanation & clarification using power point	Quiz
17	2 theoretical hours weekly	Understand the concepts & basics	Pain control in Endodontic	Deliver the lecture with explanation & clarification using power point	Quiz
18	2 theoretical hours weekly	Understand the concepts & basics	Endodontic radiography	Deliver the lecture with explanation & clarification using power point	Quiz
19	2 theoretical hours weekly	Understand the concepts & basics	Working length determination	Deliver the lecture with explanation & clarification using power point	Quiz
20	2 theoretical hours weekly	Understand the concepts & basics	Microbiology	Deliver the lecture with explanation & clarification using power	Quiz

				point	
21	2 theoretical hours weekly	Understand the concepts & basics	Microbiology	Deliver the lecture with explanation & clarification using power point	Quiz
22	2 theoretical hours weekly	Understand the concepts & basics	Intracanal instruments	Deliver the lecture with explanation & clarification using power point	Quiz
23	2 theoretical hours weekly	Understand the concepts & basics	Intracanal instruments .	Deliver the lecture with explanation & clarification using power point	Quiz
24	2 theoretical hours weekly	Understand the concepts & basics	Obturation of the root canal system	Deliver the lecture with explanation & clarification using power point	Quiz
25	2 theoretical hours weekly	Understand the concepts & basics	Obturation of the root canal system	Deliver the lecture with explanation & clarification using power point	Quiz
26	2 theoretical hours weekly	Understand the concepts & basics	Endodontic Emergency Treatment	Deliver the lecture with explanation & clarification using power point	Quiz
27	2 theoretical hours weekly	Understand the concepts & basics	Restoration of Endodontically Treated Teeth	Deliver the lecture with explanation & clarification using power point	Quiz
28	2 theoretical hours weekly	Understand the concepts & basics	Endodontic-Periodontal Relations	Deliver the lecture with explanation & clarification using power	Quiz

				point	
29	2 theoretical hours weekly	Understand the concepts & basics	Tooth discoloration and bleaching.	Deliver the lecture with explanation & clarification using power point	Quiz

11. Infrastructure	
1. Books Required reading:	Art and science of operative dentistry Text book of endodontic.
2. Main references (sources)	As above
A- Recommended books and references (scientific journals, reports…).	
B-Electronic references, Internet sites…	Scopus

Course Description Form

1. **Course Name:**
Preventive Dentistry
2. **Course Code:**
PVD554
3. **Semester / Year:**
5th stage / Annual
4. **Description Preparation Date:**
2025-2024
5. Available Attendance Forms:
Attendance (Theoretical + lab)
6. Number of Credit Hours (Total) / Number of Units (Total)
120 hours / 5 units
7. Course administrator's name (mention all, if more than one name)
Name: Ass. Prof Azhar Ammash Hussein **lecturer Hind Thyab Hamid** **Assist lecturer Sohab Quis**
8. Course Objectives
1. To provide students with fundamental knowledge of preventive dental procedures aimed at promoting oral health and preventing dental diseases. **2. To train students in the clinical application of preventive measures such as fluoride therapy, pit and fissure sealants, dietary counseling, and oral hygiene instructions.** **3. To develop students' skills in identifying risk factors for oral diseases and creating individualized prevention plans for patients.** **4. To enhance students' ability to educate and motivate patients toward maintaining long-term oral health through evidence-based preventive strategies.**
9. Teaching and Learning Strategies
1. The method of giving lectures with explanation and clarification using PowerPoint. **2. Urging students to use the library as one of the learning methods.** **3. The method of self-learning by supporting the learner's environment.** **4. Urging students to use the Internet as a supportive tool for learning.** **5. Using the principle of discussion and dialogue to increase students' comprehension.** **6. The application of education through the practical part.**

10. Course structure					
Evaluation method	**Teaching method**	**Module / course or topic name**	**Theoretical contents**	**hour**	**week**
Quizzes half year and final written examination	**lecture using power point program**	**prevention**	**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!**	**1**	**1**
Quizzes half year and final written examination	**lecture using power point program**	**prevention**	**Dental caries development** **● Etiology of dental caries** **● Inorganic and organic components of tooth** **● Terminology of dental caries** **● Dynamics Process of De-/Remineralization** **● The development of a carious lesion** **● Root caries** **● Clinical appearance of root caries** **● Classification of root caries**	**1**	**2**
Quizzes mid-term and final written examination	**lecture using power point program**	**prevention**	**Diagnosis of dental caries** **● Detection systems of caries** **● visual and tactile examinations** **● Radiographic techniques** **● Electrical current measurement (electronic resistant method)** **● Fiber Optic Transillumination (FOTI and DiFOTI) (Enhanced visual techniques)** **● Fluorescent techniques** **● Other techniques like Dyes, Ultrasound techniques, Photo-thermal Radiometry (PTR).**	**1**	**3**

Quizzes mid-term and final written examination	lecture using power point program	prevention	Fluoride in Dentistry ● Introduction ● Fluoride in Environment ● Fluoride Metabolism (Absorption, Distribution and Excretion of Fluoride in the Body).	1	4
Quizzes mid-term and final written examination	lecture using power point program	prevention	Fluorides in prevention and controlling dental caries ● Mechanism of action ● Fluoride's effect on tooth mineral ● Fluoride effect on plaque and bacterial metabolism	1	5
Quizzes mid-term and final written examination	lecture using power point program	prevention	Topical fluoride therapy Professionally applied fluoride ● Introduction ● Advantages and disadvantages of topical fluoride application ● Fluoride Compounds ● Classification of Professionally applied fluoride.	1	6
Quizzes mid-term and final written examination	lecture using power point program	prevention	Topical fluoride therapy :Self-applied fluoride ● Requisites for self-applied fluoride agents ● Fluoride dentifrices and Mechanism of Action ● Fluoride mouth rinses, Indications and Recommendations.	1	7
Quizzes mid-term and final written examination	lecture using power point program	prevention	Safety and toxicity of fluoride ● Fluoride Toxicity ● Factors influencing acute toxicity ● Management of acute toxicity ● Recommendations for parents ● Chronic Toxicity(Dental fluorosis and bone fluorosis)	1	8
Quizzes mid-term and final written examination	lecture using power point program	prevention	Dental sealants ● definition ● History ● indication and contraindication ● sealant in adult ● Ideal sealants materials ● Requisites for Sealant	1	9

			Retention **● Sealant Placement Guidelines** **● Fluoride-Releasing Sealants** **● Glass ionomer sealants** **● Colored Versus Clear Sealants** **● Sealants for proximal enamel surfaces** **● Sealing over caries lesions**		
Quizzes mid-term and final written examination	**lecture using power point program**	**prevention**	**New approach in restorative dentistry** **● Minimally Invasive Treatment Technique** **● Minimally Invasive Cavity Preparation** **● Non-machinery Preparation** **● LASER** **● Chemo mechanical Caries Removal** **● Preventive Resin Restorations** **● Remineralization Treatment**	**1**	**10**
Quizzes mid-term and final written examination	**lecture using power point program**	**prevention**	**Microbiology of dental caries** **● Microbial ecology in the oral cavity** **● Acquisition of the resident oral microflora** **● Site distribution of oral bacteria** **● Ecological factors affecting the growth and metabolism of oral bacteria** **● Dental biofilms: development, structure, composition and properties** **● Development of dental biofilms** **● Pellicle formation** **● Microbial colonization** **● Initial microbial colonization** **● Microbial succession** **● Microbial composition of the climax community (mature biofilm)** **● Virulence of microorganisms** **● Major dental caries-**	**1**	**11**

			associated bacteria ● Other caries-associated bacteria		
Quizzes mid-term and final written examination	lecture using power point program	prevention	Saliva and host defense mechanism ● Function of saliva ● Composition of saliva ● Salivary flow rate ● Influence of saliva on dental caries ● Oral immune system ● Non-specific immune factors ● Specific immune factors ● Immunization of dental caries	1	12
Quizzes mid-term and final written examination	lecture using power point program	prevention	Caries risk assessment ● Goals of Caries Risk Assesment ● Caries Disease Indicators ● Caries Risk Factors ● Caries Protective Factors ● Factors in Low, Moderate and High Caries ● Cariogram	1	13
Quizzes mid-term and final written examination	lecture using power point program	prevention	infection control ● Transmission of infection ● Standard precautions ● Components of infection control ● Treatment room features ● Single use disposable instruments ● Biomedical waste management	1	14
Quizzes mid-term and final written examination	lecture using power point program	prevention	Oral hygiene measures (Mechanical) ● Acquired pellicle ● Dental plaque ● Dental calculus ● Mechanical plaque control aids ● Toothbrushes ● Tooth brushing methods ● Powered toothbrush ● Objectives of toothbrushing ● Interdental Cleaning aids ● Dental floss ● Wooden tips ● Interdental brushes ● Miswak ● Oral irrigation devices	1	15

			• Gingival massage		
Quizzes mid-term and final written examination	lecture using power point program	prevention	Oral hygiene measures (Chemical) • Ideal properties of chemical plaque control agents • Modes of action • Chlorhexidine • Triclosan • Essential oil mouthwashes or Listerine • Enzymes • Sanguinarine extracts • Metal ions • Antibiotics • Dentifrices • Composition of dentifrices	1	16
Quizzes mid-term and final written examination	lecture using power point program	prevention	Diet and dental caries • Role of carbohydrates in caries development • Evidences • Factors affecting food cariogenicity • Physical form of food and clearance time • Types of fermentable carbohydrate • The basic Stephan curve • Frequency of intake sugar and dental caries	1	17
Quizzes mid-term and final written examination	lecture using power point program	prevention	Non- sugar sweeteners • The sweetness of sugars • Non- sugar sweeteners • Bulk sweeteners • Intense sweeteners • Protective factors in food • Fruit and dental caries • Testing food cariogenicity	1	18
Quizzes mid-term and final written examination	lecture using power point program	prevention	Dietary counseling in dental practice • Nutritional status assessment ▪ Body Mass Index • Assessment of dietary intake • Objectives of dietary assessment • 24-hour recall • Dietary record • Food frequency	1	19

			questionnaires **● Evaluation of cariogenic potentiall** **● Evaluation of nutritive value** **● Dietary counseling** **● Approach to counseling** **● Motivation**		
Quizzes mid-term and final written examination	**lecture using power point program**	**prevention**	**Nutrition and dental health** **● Nutrition dental caries** **● Systemic effect** **▪ Morphology of the teeth** **▪ The quality of the hard tissues** **● Quality of saliva** **● Evidences of the effect of some nutrients on dental caries** **● Nutrition and eruption of teeth**	**1**	**20**
Quizzes mid-term and final written examination	**lecture using power point program**	**prevention**	**Prevention of periodontal disease and oral cancer by nutrition** **● Nutrition and periodontal health** **● The mechanisms by which nutrition may affect periodontal disease** **● Effect of food texture on periodontal health** **● Nutrition and oral mucosal disease** **● Nutrition and oral cancer** **● Primary prevention** **● Secondary prevention**	**1**	**21**
Quizzes mid-term and final written examination	**lecture using power point program**	**prevention**	**Probiotics and dental health** **● Caries-related mechanisms of probiotic activity** **● Probiotics and counts of *mutans streptococci*** **● Probiotics and caries occurrence** **● Probiotics and periodontal health**	**1**	**22**
Quizzes mid-term and final written examination	**lecture using power point program**	**prevention**	**Diagnosis and prevention of dental erosion** **● Prevalence** **● Early detection** **● Etiology** **● Protection against erosion**	**1**	**23**

			● Prevention of erosion		
Quizzes mid-term and final written examination	lecture using power point program	prevention	Prevention of malocclusion ● Normal development ● Etiology of malocclusion ● Interceptive measures ● Tooth anomalies ● Risk assessment	1	24
Quizzes mid-term and final written examination	lecture using power point program	prevention	preventive measure for population with developmental disabilities ● Disability definition ● Classification of disabling conditions ● The issues regarding the delivery of care to people with disabilities ● Dental management and preventive measures among disabled individuals ● The risk factors for dental caries among disabled individuals ● People with physical (neurological) impairment ● Visual Deficits ● Hearing problems ● Mentally retardation ● Specialized Equipment for disabled patient management ● Dental care for Institutionalized disabled individual	1	25
Quizzes mid-term and final written examination	lecture using power point program	prevention	preventive treatment strategies for medically compromised populations ● Introduction ● Eating disorders: Characteristics and preventive treatment strategies ● Depression: Characteristics and preventive treatment strategies ● Diabetes mellitus: Characteristics and preventive treatment strategies ● Epilepsy: Characteristics and preventive treatment strategies ● Blood disorders: Characteristics and preventive treatment strategies	1	26

Quizzes mid-term and final written examination	lecture using power point program	prevention	Ozone in the prevention of dental diseases ● Definition and physical properties ● Mode of action ● Safety ● Application of ozone in dentistry ● Effects of ozone on oral microorganisms and oral cells ● Ozone for disinfecting dentures ● Ozone instruments designed for dentistry ● Ozone in the management of incipient caries ● Ozone in the management of open caries ● Treating root caries with ozone	1	27
Quizzes mid-term and final written examination	lecture using power point program	prevention	Geriatric dentistry ● population characteristics ● Physiologic Changes ● Functional status ● common oral manifestation ● preventive measures ● long term care	1	28
Quizzes mid-term and final written examination	lecture using power point program	prevention	Implant care ● Dental implant parts ● Dental implant and biofilm ● Implant Maintenance ● Professional care in dental clinic ● Home care	1	29
Quizzes, half year and final written examination	lecture using power point program	prevention	Protection of the dentition ● Impact of dental trauma ● Types of traumatic dental injuries to teeth ● Sports dentistry ● Protective mouth-guards ● Evidence of effectiveness ● mouth-guards and oral & systemic infections	1	30

Clinical requirement :

No	Title	hours
1	Diagnosis and treatment planning	3
2	Diagnosis and treatment planning	3
3	Preliminary medical and dental history,Clinical examination , Radio graphic examination	3
4	Preliminary medical and dental history,Clinical examination , Radio graphic examination	3
5	Demonstration and use of Primary prevention program by removal of dental plaque and calculus and application of fluoride and fissure sealants	3
6	Demonstration and use of Primary prevention program by removal of dental plaque and calculus and application of fluoride and fissure sealants	3
7	Monitoring of developing dentition and recognition and prevention (through use of space maintainers) or interception of any occurrence of malocclusion	3
8	Monitoring of developing dentition and recognition and prevention (through use of space maintainers) or interception of any occurrence of malocclusion	3
9	Caries removal and restoration of primary and young developing permanent dentition with variety of restorative materials	3
10	Caries removal and restoration of primary and young developing permanent dentition with variety of restorative materials	3
11	Trauma management in anterior teeth	3
12	Trauma management in anterior teeth	3
13	Minimal intervention dentistry by removal of dental decay and choice of suitable restorative material	3
14	Minimal intervention dentistry by removal of dental decay and choice of suitable restorative material	3
15	Pulp therapy for primary dentition	3
16	Pulp therapy for primary dentition	3
17	Management of simple cases of dental anomalies and other developmental defects	3
18	Management of simple cases of dental anomalies and other developmental defects	3

19	Maintenance of pulp vitality by use of regenerative materials and Root canal treatment for anterior non vital teeth	**3**
20	Maintenance of pulp vitality by use of regenerative materials and	**3**

	Root canal treatment for anterior non vital teeth	
21	Extraction for non restorable primary and permanent teeth or over-retained primary dentition and permanent teeth for space creation for orthodontic treatment	**2**
22	Extraction for non restorable primary and permanent teeth or over-retained primary dentition and permanent teeth for space creation for orthodontic treatment	**2**
23	Management of molar incisor hypomineralization MIH	**3**
24	Behavior management for young patients	**3**
25	Behavior management for young patients	**3**
26	Infection control re-assurance and guidance of students	**3**
27	Infection control re-assurance and guidance of students	**3**
28	Tooth colored restoration technique	**3**
29	Tooth colored restoration technique	**3**
30	Radiographic prescription and interpretation of results	**3**
Total		**90**

Course Description Form

1. Course Name:
Pediatric Dentistry
2. Course Code:
PED557
3. Semester / Year:
5th stage / Annual
4. Description Preparation Date:
2025-2024
5. Available Attendance Forms:
Attendance (Theoretical + lab)
6. Number of Credit Hours (Total) / Number of Units (Total)
120 hours /5 units
7. Course administrator's name (mention all, if more than one name)
Name: Assist .prof Maha Issam Abdulazeez Lecturer .Aseel Taha
8. Course Objectives
1. To develop students' knowledge and clinical skills in diagnosing and managing common dental conditions in pediatric patients. 2. To train students in behavior management techniques for effective communication and cooperation with children during dental treatment. 3. To enable students to perform basic pediatric dental procedures, including restorations, pulp therapy, and space maintenance. 4. To promote an understanding of preventive strategies tailored to children, including oral hygiene education, fluoride applications, and dietary counseling.
9. Teaching and Learning Strategies
1. The method of giving lectures with explanation and clarification using PowerPoint. 2. Urging students to use the library as one of the learning methods. 3. The method of self-learning by supporting the learner's environment. 4. Urging students to use the Internet as a supportive tool for learning. 5. Using the principle of discussion and dialogue to increase students' comprehension. 6. The application of education through the practical part.

10. Course Structure					
Week	Hours	Required learning outcomes	Unit/Module or Topic Title	Teaching Method	Assessment Method
1	1	Diagnosis and treatment planning	Advantage of treatment planning, diagnostic method,	(clinic) practical	Quizzes ,requirements, final oral examination
2	1	Preliminary medical and dental history,Clinical examination , Radio graphic examination	Clinical examination and radiographic examination	clinic) practical	Quizzes ,requirements, final oral examination
3	1	Art and science of behavior management	Child development ,major area of development variable influence dental behavior, classification of child behavior	clinic) practical	Quizzes ,requirements, final oral examination
4	1	Non pharmacological management of patient behavior	Purpose, classifying children cooperative behavior	(clinic) practical	Quizzes ,requirements, final oral examination
5	1	pharmacological management of patient behavior	Degree of sedation, indication,pre treatement documentation and assessement	(clinic) practical	Quizzes ,requirements, final oral examination
6	1	Sedation in pediatric dentistry	Conscious sedation,route of drug adimistration ,enteral sedation, rectal,IM route,IV route, inhl ation ,drug used, GA	(clinic) practical	Quizzes ,requirements, final oral examination
7	1	traumatic injuries management to teeth and supporting structure		clinic) practical	Quizzes ,requirements, final oral examination
8	1	Classification to injuries of anterior teeth		clinic) practical	Quizzes ,requirements, final oral examination
9	1	Traumatic injuries to primary teeth and its effect on permenant teeth		clinic) practical	Quizzes ,requirements, final oral examination
10	1	Treatement injury to permenenat teeth , emergency , temporary restoration		clinic) practical	Quizzes ,requirements, final oral examination

11	1	Advanced in pediatric dentistry ,diagnostic aid and cavity preparation		clinic) practical	Quizzes ,requirements, final oral examination
12	1	Advanced in endodontic ,adavanced in local ansthesia		clinic) practical	Quizzes ,requirements, final oral examination
13	1	Advanced in restorative material , surgical procedure, miscellounous		clinic) practical	Quizzes ,requirements, final oral examination
14	1	Acquired disturbance of oral structure		clinic) practical	Quizzes ,requirements, final oral examination
15	1	Developmental disturbance of oral structure		clinic) practical	Quizzes ,requirements, final oral examination
16	1	Gingivitis and periodontal disease in children		clinic) practical	Quizzes ,requirements, final oral examination
17	1	Gingival lesion of gentic origin,ascorbic acid defficiency		clinic) practical	Quizzes ,requirements, final oral examination
18	1	Acute candidiasis (thrush) Acute bacterial infection		clinic) practical	Quizzes ,requirements, final oral examination
19	1	Periodontal disease in children ,early onset ,prepurtal, localized juvenile periodtintits		clinic) practical	Quizzes ,requirements, final oral examination
20	1	Papillion lever syndrome, gingival recession, extrinsic stain and deposit		clinic) practical	Quizzes ,requirements, final oral examination
21	1	Management of space maintainer problems Planning for space maintenance		clinic) practical	Quizzes ,requirements, final oral examination
22	1	Space Maintenance for the First and Second Primary Molar and the Primary Canine Area, premature loss of second primary molar Type of space maintainer(indication andcontraindication Type of space maintainer(indication andcontraindication		clinic) practical	Quizzes ,requirements, final oral examination

		Type of space maintainer(indication andcontraindication Type of space maintainer(indication andcontraindication			
23	1	Loss of the Second Primary Molar Before Eruption of the First Permanent Molar, Areas of Multiple Primary Molar Loss		clinic) practical	Quizzes ,requirements, final oral examination
24	1	Development of dental arch and occlusion; deciduous phase, mixed dentition phase.		clinic) practical	Quizzes ,requirements, final oral examination
25	1	Arch length analysis; Nance analysis, Moyers mixed dentition analysis, Tanaka and Johnston analysis, Bolton analysis.		clinic) practical	Quizzes ,requirements, final oral examination
26	1	Dental problems of the disabled child first, dental visit, Radiographic examination, Preventive dentistry, Management of a child with special care needs during dental treatment		clinic) practical	Quizzes ,requirements, final oral examination
27	1	Treatment immobilization, Mental disability, Down syndrome, Intellectual disability, Learning disability		clinic) practical	Quizzes ,requirements, final oral examination
28	1	Fragile X syndrome, cerebral palsy, autism,		clinic) practical	Quizzes ,requirements, final oral examination
29	1	Respiratory diseases, hearing loss, visual impairment, epilepsy		clinic) practical	Quizzes ,requirements, final oral examination
30	1	Heart disease, hemophilia, hemophilia ,sickle cell anemia, viral hepatitis, AIDS		clinic) practical	Quizzes ,requirements, final oral examination

No	Title	hours
1	Diagnosis and treatment planning	**3**
2	Preliminary medical and dental history,Clinical examination , Radio graphic examination	**3**
3	Demonstration how to obtain a complete case sheet	**3**
4	Monitoring the developing dentition and recognition of any sign of malocclusion	**3**
5	Types of Caries removal techniques	**3**
6	Restoration of primary and young permanent teeth with variety types of restorative materials	**3**
7	Management of traumatic injuries of the anterior teeth	**3**
8	Minor oral surgery	**3**
9	Minimal intervention dentistry	**3**
10	Pulp therapy for permanent dentition	**3**
11	Pulp therapy for primary dentition	**3**
12	Materials used for pulp therapy	**3**
13	Chrome steel crowns	**3**
14	Management of simple cases of dental anomalies and other developmental defects	**3**
15	Maintenance of pulp vitality by use of regenerative materials	**3**
16	Root canal treatment for anterior non vital teeth	**3**
17	Extraction for non restorable primary and permanent teeth or over-retained primary dentition and permanent teeth for space creation for orthodontic treatment	**3**
18	Management of molar incisor hypomineralization MIH	**3**
19	Behavior management for young patients	**3**
20	Infection control re-assurance and guidance of students	**3**
21	Tooth colored restoration technique	**3**
22	Radiographic prescription and interpretation of results	**3**
23	Space maintainers	**3**
24	Fluoride application as a preventive measure	**3**
25	Amelogenesis imperfecta	**3**
26	Supernumerary teeth and their impact on teeth eruption	**3**
27	Management of medically compromised children	**3**
28	Peg teeth management	**3**
29	ART technique	**3**
30	Prosthesis usage in pediatric dentistry	**3**

Course Description Form

1. **Course Name:**
Orthodontics
2. **Course Code:**
ORT566
3. **Semester / Year:**
5th stage / Annual
4. **Description Preparation Date:**
15/9/2024
5. Available Attendance Forms:
Attendance (Theoretical + lab)
6. Number of Credit Hours (Total) / Number of Units (Total)
120 hours / 6 units
7. Course administrator's name (mention all, if more than one name)
Name: Ass. Prof Jamal khidher
8. Course Objectives
1. To provide students with foundational knowledge of malocclusion types, their etiology, and principles of orthodontic diagnosis and treatment planning. **2. To train students in clinical examination, cephalometric analysis, and the use of orthodontic diagnostic tools.** **3. To develop basic clinical skills in preventive and interceptive orthodontic procedures, including space maintainers and habit-breaking appliances.** **4. To enhance students' ability to identify cases requiring referral and understand the limitations and scope of general orthodontic practice.**
9. Teaching and Learning Strategies
1. The method of giving lectures with explanation and clarification using PowerPoint. **2. Urging students to use the library as one of the learning methods.** **3. The method of self-learning by supporting the learner's environment.** **4. Urging students to use the Internet as a supportive tool for learning.** **5. Using the principle of discussion and dialogue to increase students' comprehension.** **6. The application of education through the practical part.**

10. Course Structure					
Week	Hour	Required learning outcomes	Unit/Module or Topic Title	Teaching Method	Assessment Method
1	1	Understand the concepts, basics and practical application	Orthodontic diagnosis and treatment planning: a- Personal data b- Consent form c- Clinical examination i. General body stature	a lecture and a theoretical explanation , questions	Quiz, semester, mid and final exams
2	1	Understand the concepts, basics and practical application	ii. Face examination in 3 dimensions iii. skeletal examination iv. Soft tissue examination	power point	Quiz, semester, mid and final exams
3	1	Understand the concepts, basics and practical application	v. Occlusion	Lecture & explanation	Quiz, semester, mid and final exams
4	1	Understand the concepts, basics and practical application	vi. Dentition vii. Temporomandibular joint	Lecture & explanation	Quiz, semester, mid and final exams
5	1	Understand the concepts, basics and practical application	d- Diagnostic aids i. Cephalometrics	Lecture & explanation	Quiz, semester, mid and final exams
6	1	Understand the concepts, basics and practical application	ii. Orthopantomography iii. Other views	Lecture & explanation	Quiz, semester, mid and final exams
7	1	Understand the concepts, basics and practical application	iv. Study models	power point	Quiz, semester, mid and final exams
8	1	Understand the concepts, basics and practical application	v. Photography vi. 3D imaging	power point	Students participate lecture in explaining
9	1	Understand the concepts, basics and practical application	e- Treatment planning	Lecture & explanation	Students participate lecture in explaining
10	1	Understand	f- Treatment of Medically	Lecture &	Questions &

		the concepts, basics and practical application	**compromised patients**	**explanation**	**discussion**
11	**1**	**Understand the concepts, basics and practical application**	**g- Orthodontic indices**		
12	**1**	**Understand the concepts, basics and practical application**	**Space analysis, Bolton's ratio**	**Lecture & explanation**	**Questions &**
13	**1**	**Understand the concepts, basics and practical application**	**Teeth extraction in orthodontics**	**Lecture & explanation**	**Questions & discussion**
14	**1**	**Understand the concepts, basics and practical application**	**Serial extraction**	**Lecture & explanation**	**Questions & discussion**
15	**1**	**Understand the concepts, basics and practical application**	**Vertical and transverse problems: a. Deep bite**	**Lecture & explanation**	**Questions & discussion**
16	**1**	**Understand the concepts, basics and practical application**	**b. Open bite**	**Lecture & explanation**	**Questions & discussion**
17	**1**	**Understand the concepts, basics and practical application**	**c. Crossbite and scissors bite**	**Lecture & explanation**	**Questions & discussion**
18	**1**	**Understand the concepts, basics and practical application**	**Treatment of common local factors: a. supernumerary and hypodontia b. Early loss of deciduous teeth c. Retained teeth, delayed eruption, impaction, ankylosis d. Abnormal eruptive behavior e. Large frenum**	**Lecture & explanation**	**Questions & discussion**
19	**1**	**Understand the concepts, basics and practical**	**f. Bad oral habits**	**Lecture & explanation**	**Questions & discussion**

		application			
20	1	Understand the concepts, basics and practical application	Treatment of aberrant position of canines	Lecture & explanation	Questions & discussion
21		Understand the concepts, basics and practical application	Treatment of general factors: a. Class I treatment (crowding, spacing, biprotrusion)	Lecture & explanation	Questions & discussion
22		Understand the concepts, basics and practical application	Continue class I treatment (method of space creation)	Lecture & explanation	Questions & discussion
23		Understand the concepts, basics and practical application	b. Class II div. 1 treatment	Lecture & explanation	Questions & discussion
24		Understand the concepts, basics and practical application	c. Class II div. 2 treatment	Lecture & explanation	Questions & discussion
25		Understand the concepts, basics and practical application	d. Class III treatment	Lecture & explanation	Questions & discussion
26		Understand the concepts, basics and practical application	Treatment of adults a- Periodontal problems	Lecture & explanation	Questions & discussion
27		Understand the concepts, basics and practical application	b- Orthognathic surgery	Lecture & explanation	Questions & discussion
28		Understand the concepts, basics and practical application	Continue cleft lip and palate	Lecture & explanation	Questions & discussion
29		Understand the concepts, basics and practical application	Digital orthodontics	Lecture & explanation	Questions & discussion

Clinical requirement :

Item	Minimum Requirements	Hours
	Treatment of at least one patient: 1- Diagnosis :(Mandatory) a- Case sheet filling & presentation b- Upper and lower impression. c- Study models preparation d- Extra & intra oral photographs e- Cephalometric tracing 2- Treatment plan:(Mandatory) 3- Insertion(Optional) 4- Adjustment or Activation(Optional)	
Total	The student should receive at least one orthodontic case to enter the final exam	120

Course Description Form

1. Course Name:
Oral Medicine
2. Course Code:
OMD563
3. Semester / Year:
5th stage / Annual
4. Description Preparation Date:
15/9/2024
5. Available Attendance Forms:
Attendance (Theoretical+ clinics)
6. Number of Credit Hours (Total) / Number of Units (Total)
150 h(30 Theoretical + 120 clinic) /6 Units
7. Course administrator's name (mention all, if more than one name)
Name: assist. Lec. Marwah Waleed Shakir E. mail: marwah89@gmail.com
8. Course Objectives
1. Understand the different types of diseases that affect the mouth and teeth. 2. Follow the correct scientific guidance to determine the possibilities to reach the correct Diagnosis. 3. Knowing how to treat various diseases that affect the mouth and teeth.
9. Teaching and Learning Strategies
2- Urging students to use the library as one of the learning methods. 3- The method of self-learning by supporting the learner's environment. 4- Urging students to use the Internet as a supportive means of learning. 5- Using the principle of discussion and dialogue to increase students' comprehension. 5- Applying education through the practical part of the course.

10. Course Structure					
Week	**Hours**	**Required Learning Outcomes**	**Unit or subject name**	**Learning method**	**Evaluation method**
2&1	1 theoretical hours weekly	Understand the concepts & basics	The principles of oral diagnosis Clinical examinations	Deliver the lecture with explanation & clarification using power point	Quiz
4&3	1 theoretical hours weekly	Understand the concepts & basics	Laboratory investigations in dentistry	Deliver the lecture with explanation & clarification using power point	Quiz
6&5	1 theoretical hours weekly	Understand the concepts & basics	orofacial pain	Deliver the lecture with explanation & clarification using power point	Quiz
8&7	1 theoretical hours weekly	Understand the concepts & basics	TMJ disorder	Lecture using power point	1st Sem. Exam.
1&10&91	1 theoretical hours weekly	Understand the concepts & basics	Oral ulceration and Vesiculo-bullous lesions	Deliver the lecture with explanation & clarification using power point	Quiz
13&12	1 theoretical hours weekly	Understand the concepts & basics	White & red lesions	Deliver the lecture with explanation & clarification using power point	Quiz
15&14	1 theoretical hours weekly	Understand the concepts & basics	Early detection of oral cancer	Deliver the lecture with explanation & clarification using power point	Quiz
			Mid- Year Exam.		
17&16	1 theoretical hours weekly	Understand the concepts & basics	Pigmented oral lesions	Deliver the lecture with explanation & clarification using power	Quiz

				point	
19&18 & 21&20	1 theoretical hours weekly	Understand the concepts & basics	Benign, Premalignant and malignant lesions of the oral cavity	Deliver the lecture with explanation & clarification using power point	Quiz
23&22	1 theoretical hours weekly	Understand the concepts & basics	Neuromuscular disorder	Deliver the lecture with explanation & clarification using power point	2nd Sem. Exam
25&24	1 theoretical hours weekly	Understand the concepts & basics	Salivary gland diseases	Deliver the lecture with explanation & clarification using power point	Quiz
&27&28 26	1 theoretical hours weekly	Understand the concepts & basics	Autoimmune diseases	Deliver the lecture with explanation & clarification using power point	Quiz
29&30	1 theoretical hours weekly	Understand the concepts & basics	Oral manifestation of allergic reaction	Deliver the lecture with explanation & clarification using power point	Quiz
Total	30		Final Exam.		

Clinical part:

Lab. number	Study unit title	hours
1	Laboratory investigations in dentistry, clinic	4
2	Viral infection, clinic	4
3	Bacterial infection, clinic	4
4	Fungal infection clinic	4
5	Diseases of Respiratory tract clinic	4
6	Diseases of cardiovascular system clinic	4

7	Diseases of gastrointestinal tract clinic	4
8	Renal diseases clinic	4
9	Anemia clinic	4
10	Leukemia clinic	4
11	Bleeding and clotting disorders clinic	4
12	Immunologic diseases clinic	4
13	Diseases of thyroid gland clinic	4
14	Diabetes mellitus clinic	4
15	Orofacial pain and common headache disorders clinic	4
16	Neuromuscular diseases clinic	4
17	Temporomandibular disorders clinic	4
18	Salivary gland disorders clinic	4
19	Drugs in dentistry clinic	4
20	Drugs induced oral lesions clinic	4
21	Panoramic image interpretation clinic	4
22	Allergy clinic	4
23	Ulcerative ,vesicular, and bullous lesions clinic	4
24	Red and white lesions of the oral mucosa clinic	4
25	Pigmented lesions of the oral mucosa clinic	4
26	Benign lesions of the oral cavity and the jaw clinic	4
27	Oral and oropharyngeal cancer clinic	4
28	LASER in oral medicine clinic	4
29	Geriatric oral medicine clinic	4
30	Pediatric oral medicine clinic	4
Total		120

11. Infrastructure	
1. Books Required reading:	Burket's oral medicine. Michael Glick, Martin Greenberg, Peter Lockhart and Dtephen Challacombe. 13th edition.2021, Wiley Black well
2. Main references (sources)	1- BURKETS Oral Medicine, thirteen edition, 2015. 2- Cawsons essentials of oral pathology and oral medicine 2002.
A- Recommended books and references (scientific journals, reports…).	1- TEXTBOOK OF ORAL MEDICINE, 2nd edition, 2010. 2- Cawsons essentials of oral pathology and oral medicine 2002.
B-Electronic references, Internet sites…	

Course Description Form

1. Teaching Institution		Tikrit university
2. University Department/Centre		Collage of Dentistry
3.	Course title/code	**RSP529**
	Lecturers	Lecturer Dr Hadeel Mohammed Abbood Lecturer Muntasir Hassan Mohammed
4. Modes of Attendance offered		Academic Lectures
5. Semester/Year		5th Year
6. Number of hours tuition (total)		15
7. Date of production/revision of this specification		15/9/2024

Research Methods Fifth Year Program		
Subject Title	**Research methods**	
Number of credits	Theory:2	
Number of contact hours	Theory:1h/wk.	
Subject time	Fifth year	

10. Course Structure(Theroy)					
Week	Hours	ILOs	Unit/Module or Topic Title	Teaching Method	Assessment Method
1	1	The Research Question	Understanding what is the research question	PowerPoint Presentation, Online lecture and discussion	Quiz, semester, and midyear exams
2	1		Choosing the research question		
3	1	Study design	Types of study designs		
4	1		Choosing the suitable study design		
5	1	Medical statistics	Basic medical statistic		
6	1		t-test, ANOVA test and chi square test		
7	1		Choosing the correct statistical test		
8	1	Research Ethics	Understanding research ethics		
9	1		Declaration of Helsinki		
10	1	Biosafety	Biosafety		
11	1	Citation and references	Citation and references		
12			Avoiding plagiarism		
13	1	Basics of academic writing	Basic of academic writing		
14	1		Writing the methods and results		
15	1		Writing the discussion and conclusion		

11. Infrastructure	
1. Books Required reading:	**1- An introduction to research methods for undergraduate health profession students** **2- Oxford handbook of medical statistics**
2. Main references (sources)	
A- Recommended books and references (scientific journals, reports…).	
B-Electronic references, Internet sites…	**Declaration of World medical associatio Helsinki: www.wma.net**
12. The development of the curriculum plan	